

Instruction manual

idesign8+

Order Number 40094502

(EN) English



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Table of Contents

| 1. | General | 8 |
|----|---|-----------|
| | Information on this operating manual | 8 |
| | Explanation of Danger Degrees | 9 |
| | Limitation of liability | 10 |
| | Copyright | 10 |
| | Guarantee terms | 10 |
| | Customer service | 10 |
| | Intended use | 10 |
| 2. | Installation and set-up | 11 |
| | System requirements | 11 |
| | Install software | 11 |
| | Starting and ending software | 13 |
| | Start idesign8+ | 13 |
| | End idesign8+ | 13 |
| 3. | Software design | 15 |
| | Home page | 15 |
| | Navigation menu | 15 |
| | Information | 16 |
| | System tool bar | 17 |
| | Status LED | 18 |
| | Connection information | 19 |
| | Popup – menu of the system symbol | 20 |
| 4 | Printer | |
| •• | Description | |
| | Status | Z I 21 |
| | Status - Tab | ∠⊺ 21 |
| | Cartridges – Tab | 21 24 |
| | Configuration Tab | 26 |
| | Inputs/Outputs Tab | 29 |
| | Printing | 31 |
| | Device group | 32 |
| | Label backup | 33 |
| | Send print images | 34 |
| | Receive print images | 34 |
| | Delete print images | 35 |
| | Settings | 36 |
| | Tab Head # Print Parameters | 36 |
| | Print delay | 37 |
| | Speed | 38 |
| | PTITI Speeu | 30 38 |
| | Zoom | |
| | Print direction | |
| | Nozzle row | 40 |
| | Upside down | 41 |
| | Encoder resolution | 41 |
| | Repeat distance / Print repeat number | |
| | Reveise plill delay Print start delay hi-directional | 42 |
| | Tab Head # Print Parameters | |
| | Store variable fields | |
| | | |

| Tab Head # Spitting and Warming | 47 |
|--|-----|
| Tab Head # Calibration | 48 |
| Tab Head # Inputs | 48 |
| Tab System # Device Setup | 49 |
| Language | 50 |
| Store parameter into label | 50 |
| Barcode correction | 50 |
| Data matrix pixel reduction | 51 |
| Turn display | 51 |
| Print technology | 52 |
| integra PP108 360/180 dpi und bicolor setting | 53 |
| NonStopPrinting | 54 |
| HiSpeed | 54 |
| Head configuration | 55 |
| Device name | 56 |
| Configuration code | 56 |
| Firmware Update | 57 |
| Change IP-address | 59 |
| Net mask / Gateway | 60 |
| Stitch device | 60 |
| Tab System # In- and Outputs | 64 |
| BCD Selecting label for print | 66 |
| Tab System # Serial Interface EIA232 | 68 |
| Tab System # Special settings | 69 |
| Tab Options - Function buttons | 71 |
| Load settings from file | 71 |
| Save settings to file | 72 |
| Load default settings | 72 |
| Fonts and logos | 73 |
| Send fonts | 73 |
| Send logos | 75 |
| Shift code | 76 |
| Set date/clock of the system | |
| Printer Passwords - User management on the systems | 79 |
| Setting up the user management of a printer with user interface | 80 |
| Tab Terminal | 84 |
| Send interval | |
| Send command | |
| Use command templates | |
| Load commands | |
| Save commands | |
| | |
| Connections | |
| | •• |
| Add System | |
| Search in network | 89 |
| Search at com ports | |
| Save USB connection | 91 |
| Delete connection | |
| System server | |
| Interface logging | |
| | |
| IITUAI SYSTEMS ON A USB-STICK | |
| | ~- |
| ayout | |
| Description of functions | |
| nsert a text field | qq |
| Granbic taxt field | 100 |
| Οιαριίο ισλι ποια Drintar Ττμα Τύρα | 100 |
| Variable text field with multi-bute character set for external control | 101 |
| | 102 |
| nsert a date field | |
| sert a counter field | |
| | |

5.

6.

| | External counter field | |
|----|---|------------|
| | Insert a barcode/ 2D Code | |
| | Insert a variable field | |
| | Insert a logo | |
| | Insert an action field | 118 |
| | Reference fields | 122 |
| | Store parameter into label – Embedded parameters | 123 |
| | Save print image | 123 |
| | Onen print image | |
| | Ink consumption calculator | |
| | l abel from database | |
| 7 | Tools | 127 |
| •• | Torminal | 407 |
| | Configuration TCD/ID connection | |
| | Configuration a LISP connection | |
| | Configuration a RS232 connection | |
| | Connection status | |
| | Server start | |
| | Firmware | |
| | Enter service password | |
| | Create a USB – Update firmware Stick | |
| | USB Firmware Update Procedure | |
| | USB Stick Backup | 133 |
| | Font Creator | |
| | Font package | 137 |
| | | 400 |
| | Signal Analysis | |
| | Idesign8+ Remote | |
| | Performance features. | |
| | Activate idesign8+ Remote | |
| | Example input format Filedrop | |
| | Input format http | 146 |
| | Create a simple http service | |
| | Test HTTP interface | |
| | Setting up a TCP / IP service | |
| | Screen Keyboard | 159 |
| | | |
| 8. | Options | 160 |
| | General | |
| | Set up language | |
| | Design | |
| | Activate DB Print | |
| | Distributor features | |
| | Automatically check for updates for idesign8+ | |
| | Stitch Function Display print start many "Drint image group" | |
| | Store variable fields | |
| | Check variable length | |
| | Counter start value | |
| | Menu Shortcuts | |
| | Database connection | 164 |
| | General | 104 188 |
| | Text files | 100 166 |
| | Calculate expiry date | |
| | Alternative layout | |
| | | ••• |

| | Label groups User Management | 168 170 |
|-----|---|------------|
| 9. | DB Print | 189 |
| | General description | 189 |
| | Creating a print job | 190 |
| | Label creation | 191 |
| | Allocation of Label | 192 |
| | Tab - Setup | 193 |
| 10. | Appendix | 196 |
| | Directory structure | 196 |
| | User management credentials for user groups | 197 |
| | Own notes | 198 |
| | | |

1. General

Information on this operating manual

This manual enables safe and effective use of the software.

The manual is a component of the software.

The manual must be available to the staff at all times near the PC on which the software is installed.

The staff working with the software must have studied this manual and be familiar with the content.

Compliance with all safety notes and instructions given in this manual is a basic prerequisite for safe and efficient working.

Illustrations in this manual serve to provide a basic understanding and may differ at times.

Explanation of Danger Degrees

Safety regulations provide information in written and symbol form in order to warn you against dangers and to instruct you to avoid any damage to persons or to properties. Safety regulations are started by signal words indicating the level of danger.

Safety regulations may be placed directly at the print system or in documents about this print system.

| A DANGER | This symbol indicates a hazardous situation which, if not avoided, will result in death or serious injury. All safety regulations have to be observed to avoid any damage to persons. |
|------------------|---|
| A WARNING | This symbol indicates a hazardous situation which, if not avoided, could result in death or serious injury. All safety regulations have to be observed to avoid any damage to persons. |
| | This symbol indicates a hazardous situation which, if not avoided, may result in minor or moderate injury. All safety regulations have to be observed to avoid any damage to persons. |
| NOTICE | This symbol indicates a hazardous situation which, if not avoided, may result in damage to properties. All safety regulations have to be observed to avoid any damage to properties. |
| | |

Limitation of liability

All the information and instructions in this manual were compiled based on the current standards and regulations, state of the art technology and our many years of know-how and experience.

The manufacturer is not liable for damages resulting from:

- disregarding the manual
- improper use
- use of untrained staff
- changes to the software

The obligations agreed upon in the supply agreement, the general terms and conditions, the manufacturer's delivery terms and the statutory provisions applicable at the time of conclusion of the contract are applicable.

We reserve the right to make technical changes to improve the performance and in the course of on-going development.

Copyright

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Offenders will be liable for damages. Rights to further claims are reserved.

Guarantee terms

The guarantee terms are specified in the General terms and conditions of the manufacturer.

Customer service

Please refer to our customer service for technical information.

Refer to Page 3 for contact details.

Our staff is furthermore always interested in new information and experiences arising from the use of the product and which may be valuable information for product improvement.

Intended use

The software has been designed and implemented exclusively for the intended use described herein.

The software serves to develop and administrate print images which are transferred to a Weber Marking Systems printing system.

Intended use also includes adherence to all the specifications in this manual.

Any use beyond the intended use or any other use is regarded as misuse.

Any claims arising from damages due to misuse will be rejected.

2. Installation and set-up

System requirements

To install the idesign8+ software on a PC, the following minimum system requirements must be met:

- Processor minimum 1 GHz
- Windows 10, 8, 7
- 2 GB for 32 bit or 4 GB for 64 bit
- At least 30 GB hard disk space
- Direct X 9 or higher with WDDM 1.0 driver
- PC mouse or touch screen
- interface: either USB, RS 232 or Ethernet LAN/WLAN port

Install software

The following steps imply that you have an installation file on CD or USB-stick or that you download the software on the Weber Marking Partner Portal with the following link:

http://www.bluhmsysteme.com/download/software/iDesign/Setup_idesign8.exe

Under this link you'll find always the latest idesign8+ software.

You'll get further information from the Support.

You'll get the latest software update under the link, specified above or the info button. The latest software includes also the latest firmware versions.

| Step | Procedure |
|------|--|
| 1 | Change to the index where you saved the actual idesign8+ version |
| 2 | Double click the idesign8+.exe file. |
| 3 | Click on the Install button |

| D8Setup - idesign version 8.2.4.1 | | - × |
|--|-------------------------|-----------|
| Ready to Install | | |
| Setup is now ready to begin installing idesign on your computer. | | 128 |
| Click to stall the negative with the installation | | |
| Click install to continue with the installation. | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | Install | Cancel |
| | | |
| | Fig. 1: idesign8+ Setup | Assistant |

| Step | Procedure | | |
|------|-----------|--|--------|
| | | D8Setup - idesign version 8.2.4.1 | – × |
| | | Installing | |
| | | Please wait while Setup installs idesign on your computer. | -84 |
| | | Extracting files | |
| | | C:\Users\Public\idesign\logos\1_nozzlecheck.bmp | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | Cancel |
| | | | |

Fig. 2: Start installation

| DeSetup - idesign version 8.2.4.1 | - x |
|-----------------------------------|--|
| | Completing the idesign Setup Wizard |
| | |
| | Setup has finished installing idesign on your computer. The application may be launched by selecting the installed shortcuts. |
| | Click Finish to exit Setup. |
| | Install FTDI-USB driver |
| | Launch application |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | Finish |
| | Fig. 3: Complete installation |

Starting and ending software

Start idesign8+



The print systems are shown only if they are registered previously.

Instruction

Please start idesign as follows:

| Step | Procedure |
|------|-----------------------------|
| 1 | To start idesign8+, |
| | Click on the desktop button |

or:

Click the idesign8+ button in the Start/Programs/idesign8+ Windows menu bar. ⇒ The Start window opens.



End idesign8+

Instruction

Please end idesign8+ as follows:

| Step | Procedure |
|------|---|
| 1 | To end idesign8+, Click the Or → button in the title bar. ⇒ The Start window closes |

| Step | Procedure | | | |
|------|-----------|---|-------------------|----------------------|
| | | 8 | Close idesign8+ ? | |
| | | | | Yes No |
| | | | | Fig. 5: End idesign8 |

3. Software design

Home page

On the left side of the idesign8+ software is the navigation menu.

Navigation menu

The navigation menu opens up the functions of idesign8+.

| Symbol | Function | Meaning |
|---------------|--------------|--|
| Printer | Printer | Status messages are shown, print images and parameter are managed and can be sent to the desired system. |
| Label Editor | Label Editor | Functions and settings for the print image. Print images can be created and managed with the editor and can send to one or more systems. |
| & Connections | Connections | The connections menu is used to configure connections to the print systems. |
| 段 Settings | Settings | The tools menu is used to make settings for the logging, user management, the language of the software and a system- independent terminal program. Data base connections can be configured and created automatically. |
| X Tools | Tools | Under Tools you will find tools such as a device-independent terminal program, firmware updates, Font Creator and more. Print images can load into the system via the USB stick backup function. |

Information

i

Info

top right to select the information dialogue. You can find the Click the button complete version number and additional notes for this idesign8+ version.



Here you can also download the version for a software update.

System tool bar

The system tool bar contains information to the already configured print systems.



Right-click on a printer icon to switch to the list view.



Fig. 8: System tool bar



Fig. 9: System symbol of the X4JET



The system tool bar is visible in main menu items "Functions" and "Connections" only.

The illustration of the print systems in the tool bar is made with a picture of the connected system, the name, a status LED and connection information.

If more systems are registered as they can show, the systems can have scrolled with the bar at the lower side.

Systems, which are registered but aren't available, are shown in grey.



The system can be activated for editing with a click on the icon. The activated symbol is then highlighted in blue.

Status LED

The status LED visualizes information about the operating condition of the activated system.

| N | 0 | Τ | IC | E | |
|---|---|---|----|---|--|
| | | | | | |

The status signals can have different meanings, depending on the system. For further information have a look to the operating manual..

| Symbol | Meaning | Descriptiong |
|--------------|---------------|---|
| Ø | ОК | The system is ready for use. It exist no problems. |
| ? | Warning | This report is displayed if i.e. a cartridge is nearly empty and should be changed. |
| A | Alarm | The system is in the "Alarm" status and is not ready for print. |
| (\bigcirc) | No connection | No connection to the system. |

NOTICE

System symbol blinks grey

If more than one PC access the print system (or more than two different PC's access the iJET or X4JET), the system flashes grey.

In this case is no configuration of the system over idesign8+ possible.

Connection information

Depending on the type of connection the status displays two information.

- 1. The name of the system, if a name has been assigned.
- 2. Different information, depending on the connection

| Connection | Meaning |
|------------|---------------------------------------|
| TCP/IP | Displays the IP-address of the system |
| USB cable | Displays the chip identification |
| EIA 232 | Displays the used COM-Port |
| USB-stick | Displays the serial number |

Popup – menu of the system symbol

If you click on a system symbol with the right mouse button, you get the possibility to change diverse settings of the selected system.



Fig. 11: Popup menu of a X4JET

The settings include:

| Menu item | Available | Description | See also |
|-----------------------------|-------------|--|--|
| Save | all systems | Specify an individual name for the system, e.g. production line 3 | |
| Change IP address | all systems | Change the IP address of the connected system and in idesign8+. | Chapter: Change IP-address, page 59 |
| Search system in network | Always | Check the actual network for connected systems | Chapter: Add System, page 89 |
| Add TCP/IP connection | Always | Add a new system in idesign8+ | Chapter: Configuration TCP/IP connection, page 127 |
| Delete connection | Always | Deletes a system in idesign8+ | Chapter: Delete connection, page 91 |
| Auto arrange icons | Always | If the check mark is removed, the system icons can be placed anywhere on the screen. | |

4. Printer

Description

The status of the connected systems can be shown.

The functions are used to manage print images and parameters and to transfer these to available printers.

The connected printers are shown as symbols on the user interface.

Status

The status menu shows information of the system and whose operating condition, which can call up. The window is divided in different fields, depending on the print system. These fields can be selected via the top tabs.

Status - Tab

The status – panel shows the status of the print system.



Fig. 12: Status screen

The status - panel is structured in different fields.

System status

| Status | Cartridges Configuration Inp | outs/Outputs | | | |
|--------|--|--|------------------|--|-----------------------|
| System | | | | | |
| | | | | | |
| Head 1 | Label: Schuetz.00l | Count: 0 | | | HP |
| | Schütz / contactor contacteur / contatorre contactor / contactor 春春醫 24V AC-3: 4KW 400V 2NO+2 Instr. Ord. No.: 3ZX - 101 醫春醫 GB14048.4/50Hz *E05* QTY 1 4 | 3RT106-2BB44 NC 2 - 0RH11 - 1AA1 | G/ 110330 922 | Made in German檗 辈 辈 HECHO EN ALEMANIA | |
| | | | | | Fig. 13: System statu |

The system status summarizes all status information, it consists of a status LED, which shows the status of the system and a status list, which shows the alarm- and error status of the system.

The system has 3 different statuses generally.

- Error The system isn't ready. The status LED is red.
- Warning The system isn't print ready or there is a warning (ink nearly empty). The status LED is yellow.
- OK The system is ready and can print. The status LED is green.

The status list shows the actual error in form of an own status LED, the print head, which concerns the error information and a textual information of the error.

| Status | Cartridges Configuration Inputs/Outputs | |
|----------|---|--------------|
| System | | |
| A | Cartr. 3 | No cartridge |
| _ | | |
| _ | | |
| | | |

Fig. 14: Example of information in the system status

The information is periodically updated and displayed by the system.

Head status

The head status is displayed below the system status. This summarizes the information for the print head.



You can find:

- Name of the print head
- Status LED summarizes the head status
- Filling level of the cartridge in percent The cartridges and whose filling levels are displayed at the left edge top down. The colors of the elements show the status for the specific cartridges.
- Label name Name of the actual print label. If no text is selected, ">> no print image <<" is displayed. If the label name isn't available, because the label is call up for printing in the controller, the text ">> System print image<<" is displayed.
- Print counter Number of the already printed label.
- Preview Real-time preview of the actual printed label. All fields, also variable fields, date fields and barcode fields will be displayed with the actual data.
- Head type pictogram Shows the print technology with a pictogram.

Cartridges – Tab

The cartridges - panel summarizes information for the head and cartridges. On the left side is a legend of the displayed information.



Fig. 16: Cartridge information

The upper part contains information of the head.

There can be seen:

- Name of the print head
- Print head technology Displayed as pictogram and text
- Ink type Part number of the selected ink
- Print head configuration (Single, Twin, Triple, Quad)
- The used channel of the print head
- Name of the actual print image
- Counter Number of the previously printed labels
- Print state start, pause, stop
- Battery status

Below this information are the cartridge information, for each cartridge separately side by side.

There can be seen:

- Cartridge name,
- Temperature of the cartridges

- Filling level of the cartridges in Graphic and text,
- Ink status in Graphic (LED) and text,
- Ink Level Reset Button

Visible by HP cartridges without SmartCard only. A pressing on the Reset button on the cartridge resets the ink level of the cartridge to 100%.

Smart Card – Info Button

Open a window, which displayed the information of the SmartCard.

| Smartcard info for C | artr. 4 | | |
|------------------------------|------------|--------------|--|
| Name | | Value | |
| Order Number | | F0L13B | |
| Fill Date | | 01.01.2006 | |
| Expiry Date | | 01.01.2006 | |
| First insert Date | | 27.09.2019 | |
| 1st Platform Seri | al Number | MOPN08766-X4 | |
| 1st Insert Softwa | re Version | 2.023.m | |
| Last insert Date | | 16.07.2020 | |
| Last insert serial Number | | MOPN08766-X4 | |
| Last Insert Software Version | | 4.025.a | |
| Ink Level | | 99 | |
| Pulse Width | | 1,50 | |
| Firing Voltage | | 5,00 | |
| | | | |
| | | | |
| | | | |
| | Save | Close | |
| | | | |

Fig. 17: Smart Cart info

This information can have saved by the Save symbol.



Not all information is shown for each cartridge-/ print head type.

If no cartridge is in the print head, the information will be shown grayed

Rinse - Button

Press the rinse button allows manual spitting of the head.

Configuration Tab

The configuration-panel summarizes tabular information of the print system.



Fig. 18: System configuration

You can add a comment to the configuration and save it as a file if necessary

The configuration can have saved on a hard disk or can send with comments via mail.

There can be seen:

| Name | Information | Change | Available for: |
|------------------|--|-------------------------------|--|
| Name | System name | Yes, see Change name | All TCP/IP – |
| | Oustant turne | NI- | connections |
| _ Type | System type | | All systems |
| IP-address | Shows the actual IP-address of | Yes, see Change IP-address | IJEI, X-have |
| | the system, also when it isn't | | saved |
| | Connected via TCP/IP | | |
| Firmware | Shows the actual installed | res, see Firmware update | All systems |
| Number of | Chave the number of queilable | No | |
| Number of | Shows the number of available | NO | All systems |
| MAC address | Shows the actual MAC address of | No | LIFT V Carias |
| MAC address | the system also when it isn't | NO | IJET, A-Selles |
| | connected via TCP/IP | | |
| Configuration | Shows the actual set system | Ves see Change configuration | |
| Configuration | configuration (HP Leymark | res, see change comiguration | Λ 4 , Λ 4 1 103, |
| | Trident) | | |
| System | Shows the actual set system | Yes see Change configuration | iJET X-Series |
| configuration | configuration (Basic Advanced | roo, ooo onange conngaration | |
| configuration | Pro. Print) | | |
| Serial number | Shows the serial number of the | No | All systems |
| | system | | |
| Storage capacity | Shows the filled storage | No | Cl2.5, Maxiline, |
| • • • | - | | Multiline |
| Max. Speed. | Shows the maximum print speed | Yes, see Change configuration | iJET, X-Series |
| | of the system | | |
| Date/Time | Shows if the system supports date | Yes, see Change configuration | iJET, X-Series |
| | fields | | |
| Variable fields | Shows if the system supports | Yes, see Change configuration | iJET, X-Series |
| | variable fields | | |
| Barcodes | Shows barcode types, which are | Yes, see Change configuration | IJEI, X-Series |
| <u> </u> | supported by the system | | |
| Passwords | Shows if the system is password- | Yes, see Change configuration | IJET, X-Series |
| LICD Cupport | Saveu Showe if the evotors supporte the | Vac and Change configuration | |
| USB Support | Shows II the system supports the | res, see change configuration | IJET, A-Series |
| Interface | Shows if the system supports the | Ves see Change configuration | LIET X Sorios |
| Interface | Ethernet interface | Tes, see change configuration | IJET, A-Genes |
| Bluetooth | Shows if the system supports the | Yes see Change configuration | i IFT X-Series |
| Bidotootii | Bluetooth interface | roo, ooo onange conngaration | |
| Digital IO | Shows if the system supports the | Yes see Change configuration | iJET X-Series |
| Digitario | Digital-IO interface | | |
| Demo | Shows if the system is a demo | Yes, see Change configuration | iJET. X-Series |
| | system | | - , |
| Cartridge-coding | Shows if the head coding is active | No, see Change configuration | iJET, X-Series |
| | in the system | | |
| None LX Weber | Shows if None-Weber cartridges | No, see Change configuration | iJET, X-Series |
| cartridge | are activated | | |
| None HP | Shows if cartridges without | No, see Change configuration | iJET, X-Series |
| SmartCard | SmartCard are activated | | |
| cartridge | | | |
| Maximum print | Shows the maximum print length | Yes, see Change configuration | iJET, X-Series |
| length | which is supported by the system | | |

Instruction

Please save the configuration as follows:

| Step | Procedure |
|------|---|
| 1 | Click on "Save" |
| 2 | Select the folder to save the file. |
| 3 | Enter the file name if necessary |
| 4 | Click on "Save" |
| 5 | The configuration is saved and can view with every text editor. |

Inputs/Outputs Tab

The inputs/outputs – panel shows information of the digital in- and outputs of the system. The field shows diverse graphical real-time signals. Furthermore, there is the possibility for a signal analysis.



The digital signals of the systems will update all 40 ms. Signals, which have a smaller period, will not be record and cannot be shown.



Fig. 19: Visualization of the input- and output signals

On the upper field there are control elements to control the display. These are from left to right:

Start/Stop of the signal preview

This allows a live preview of the signals, which can be frozen and clear in the upper picture. **Progress indicator**

The signal record and the live preview of the signals takes place max. 5 minutes.

A green bar in the progress indicator shows how much time have passed from these 5 minutes.

Record signals

A file dialogue is shown after a click on this icon. Afterwards the signals will be written as text in a file.

Loupe 1:1

Renew the original size of the live preview.

Loupe +

Zoom in in the live preview.

Loupe –

Zoom out from the live preview again.

Copy to Clipboard

Copies the current display of the live preview to the Windows clipboard. This image can than paste into the image processing software.

Preview in s

The displayed value shows the maximum time interval, which is shown in the line preview.

Marker 1

Is only available if the signal preview paused. When Marker 1 is selected, you can set a marker (red) with the left mouse button.

Marker 2

Is only available if the signal preview paused. When Marker 2 is selected, you can set a marker (blue) with the left mouse button.

Marker difference

Shows the value of the time difference between the blue and the red marker in seconds.

Display indicated value

The indicated values can also have displayed as text.

All signals, which are provided from the system, are listed on the left side. These signals act as legend of the live preview. The display of the legend happens by:

Signal name

LED

If the signal is active (High), the LED will be light green. If the signal is inactive (Low), the LED will be dark green.

Selection-Checkbox

Via the checkbox can determine whether this signal should be displayed in the live preview. It's possible to display up to 10 different signals.

Signal color

The signal color for all signals, which are shown in the live preview, is assigned automatically.

Following signals are visualized:

Inputs

If the input is active (High), the LED will be light green. If the input is inactive (Low), the LED will be dark green

Sensor

If the sensor is active (High), the LED will be light green. If the sensor is inactive (Low), the LED will be dark green

Pulse

If the pulse exists (High), the LED will be light green. If the pulse doesn't exist (Low), the LED will be red.

Active print

The active print LED of the associated print head will be light green during a label print, dark green otherwise.

Outputs

The outputs can be set in this field explicitly. By pressing a respective button, the respective output is set to High for a second, after that too Low for a second and then back to the original value, which was present before the button was pressed.

Printing



Fig. 20: Submenu Printing

Print start

To select a print image for print on a specific control system, first select a control system. Click the "Print" button in the "Functions" selection field. Select the print image from the list field, bottom right and select one or more print heads, which should receive the print image. The selected print heads are marked blue.

To start printing, click the "Start" button.

If there are variable fields in the print image, they will query now.

If a data base connection is used, a specified data set can be selected with the search function.

Print stop

Press the "Stop print "button to stop printing.

Pause

To pause printing, click on the "Pause" button.

Device group

To divide the selected print image between several connected printers, activate the tab "Device group". This function can be switched on and off in the idesign8+ settings. (Chapter Label groups, page 168.



Fig. 21: Label groups

Start

Select the print heads on the shown print systems to start a print image on several printers and print heads. Realize the function with the button "Start".

Stop

Stops the print job on all selected print systems and print heads.

Pause

To pause printing, click on the "Pause" button.

Label backup

idesign8+ sends the created print images from a PC directory via an interface to the memory of a connected printer.

This enables the printer to print these images even without a permanent connection to the PC.

Contrary, print images can be transferred from the memory of a connected printer to the PC, for backup.

idesign8+ also enables automatic generation and sending of print images from a database.

To send one or more print images from the PC to the print device, click on the "Save print image" button in the toolbar.



Send print images

Instruction

Please send print images as follows:

| Step | Procedure |
|------|--|
| 1 | Select a print image from the list displayed on the left. The "Change directory" button also enables you to search for other print images on your hard disk. |
| 2 | Click the Send > button or (to send all print images) the Send all >> button. |



Receive print images

Instruction

Please receive print images as follows:

| Step | Procedure |
|------|---|
| 1 | To transfer print images from the printer to a directory, select the print images from the list displayed on the right. |
| 2 | Click the Receive button or (to transfer all print images) the Receive all button. |

Delete print images

Instruction

Please delete print images as follows:

| Step | Procedure |
|------|---|
| 1 | To delete print images in the printer's memory, select the print images in the right field. |
| 2 | Click on the button for deletion. |
| | Delete all labels? X4JET plus |
| | Fig. 24: Delete print images |
| 3 | Click Ok to delete the selected print image in the printer's memory. Or |
| | Click All to delete the selected print image in the printer's memory |
Settings

In the menu "System "are all system specific adjustments for changing available.

| A WARNING | These settings should change from an expert only! The function of the system can be disrupted by an incorrect setting. | | | | | | | |
|------------------|--|--|--|--|--|--|--|--|
| NOTICE | Every adjustment will be send immediately to the connected printer. | | | | | | | |

The elements of the parameter section can be different depending on the type of system which is connected.

Tab Head # Print Parameters

The print parameters depend on the connected type of printer.



Consult the printer manual to set the print parameter.

Instruction

Please change the print parameter as follows:

| Step | Procedure |
|------|--|
| 1 | To call up the print parameter, click in the register "Functions" the "Settings" button. |
| 2 | Select the "Print parameters" in the selected print head menu. |

| Step | Procedure |
|------|---|
| | Head 1 System Options Terminal |
| | Print Parameters |
| | Print delay in mm 25 < |
| | Ø ₹ Label Backup N08766-x4 192.168.8224 Intensity in dpi 300 < |
| | 🗶 🚓 Settings 💦 Zoom in % 👘 100 < 🛶 🙀 🖣 👘 |
| | |
| | U02038-x4 Nozzle row A + B |
| | 192.168.8.68 Upside down Off |
| | 7 Mirror print Off |
| | Encoder resolution in ppi |
| | U02037-x4 Repeat distance in mm 0 |
| | Print Repeat number O 0 · · · |
| | Reverse print delay from Right border |
| | |
| | Print head setup |
| | Spitting and Warming |
| | Calibration |
| | Inputs |
| | Fig. 25: Print parameter |
| 3 | Now change the print parameters to configure the selected system. Any changes are immediately sent to the system. |
| | |



The minimal and maximum values of the parameter settings depends on the print system.

Print delay

The parameter **print delay** defines the path distance in mm between the light barrier trigger by the product and start of printing. By setting such a print delay, the position of the print image on the product can be changed. The print delay can be specified for each print head. Adjustable values: 0 to 999 mm.



The print start delay must not be greater than the distance between 2 products. If a print start is triggered before the last print is finished, it will be ignored.

If a print start is triggered before the last print was completed, it is ignored. Alternatively, the "Print start signal buffer" can be activated in the system under Special settings.

Instruction

Please set the print delay as follows:

| Step | Procedure |
|------|--|
| 1 | Press tab Head 1 or Head 2 (depends on the number of the activated print heads) and select the desired print head. Click on the tab Print parameter . |
| 2 | Press arrow keys and set the required delay value. The value 0 means that printing can be triggered immediately after the light barrier trigger pulse. ⇒ The numbers shown in red at the beginning turn black after confirmation with the Enter key. |

Speed

The print speed of the print heads must match the conveyor belt speed otherwise print images may be distorted. There are 2 ways to match the print speed to the conveyor belt speed:

- 1. Internal constant print speed.
- 2. External variable print speed via rotary encoder.

If no rotary encoder is connected to the controller, the conveyor belt speed must be measured or estimated and the determined value entered as a parameter. A test image (SpeedTest.00I) can then be used for fine-tuning the print speed. The set print speed is applicable for the selected print head group.

For single heads head 1 and 2 have the same setting and can't set separately. The following parameters must be entered:

Print speed

Print speed = Conveyor belt speed. The conveyor belt speed must remain constant!

Intensity

Print image contrast. If necessary, this parameter may have to be changed to optimize the print image to the product surface. Higher intensity means increased density and slower drying of the ink.

Instruction

Please set the intensity as follows:

| Step | Procedure |
|------|--|
| 1 | Press tab Print head 1 or Print head 2 (depends on the number of the activated print heads) and select the desired print head. |
| 2 | Click on the tab Print parameter . |
| 3 | Press arrow keys and set the required delay value. |

Zoom

This parameter enables an increase or decrease of the number of pixels. As long as "Zoom Optimization" is selected, the print image remains the same width. Otherwise, the print image will be wider or narrower.

Instruction

Please set the zoom as follows:

| Step | Procedure |
|------|--|
| 1 | Press tab Print head 1 or Print head 2 (depends on the number of the activated print heads) and select the desired print head. |
| 2 | Click on the tab Print parameter . |
| 3 | Press arrow keys and set the required delay value. |



When printing barcodes, ensure that widening or narrowing occurs only in the correct ratio. Note the optimal print intensity of 300 dpi. Observe the following table!

| Barcode width | Permitted zoom factor (%) | | | | | | | | | |
|---------------|---------------------------|----|----|-----|-----|-----|-----|-----|-----|--|
| 1 | | | | 100 | 200 | | | | | |
| 2 | | | 50 | 100 | 150 | 200 | | | | |
| 3 | | | 66 | 100 | 133 | 166 | 200 | | | |
| 4 | | 50 | 75 | 100 | 125 | 150 | 175 | 200 | | |
| 5 | | 60 | 80 | 100 | 120 | 140 | 160 | 180 | 200 | |
| 6 | 50 | 66 | 83 | 100 | 116 | 133 | 150 | 166 | 183 | |

Print direction

The **Print direction** parameter specifies the direction in which the product moves on the conveyor belt as viewed from the print head side.

Instruction

Please set up the print direction as follows:

| Step | Procedure |
|------|--|
| 1 | Press tab Print head 1 or Print head 2 (depends on the number of the activated print heads) and select the desired print head. |
| 2 | Click on the tab Print parameter . |
| 3 | Set the direction of the conveyor belt in the dropdown menu print direction. |

Nozzle row

Each ink cartridge has two nozzle rows (A and B). One nozzle row has 150 nozzles.

The nozzles in row A print the uneven numbers 1, 3, 5, 7 ...

The nozzles in nozzle row B print the even numbers 2, 4, 6, 8...

Per nozzle row A ~ B, 300dpi are printed vertical.

In this mode, the nozzles are uniformly stressed and the speed setting is not as critical as with A + B.

If, for instance, using A \sim B, every second print image is of poor quality, nozzle row A or nozzle row B can be activated.

Both nozzle rows print simultaneously with the setting A+B. The vertical resolution is 600 dpi. The print image is dark equal. The speed must be exactly right, because this will cause a shadow or blurred print when the nozzle rows are not print about each other correctly. The nozzle rows can set as follows:

| Description |
|---|
| Printing with both nozzle rows, alternating. The first print image is printed with nozzle row A and the second text with nozzle row B. Vertical resolution: 300 dpi |
| Printing with both nozzle rows together. Vertical resolution: 600 dpi |
| Printing only with nozzle row A. Vertical resolution: 300 dpi |
| Printing only with nozzle row B. Vertical resolution: 300 dpi |
| |



With setting A + B, the print speed must be accurately set, to produce a good print result. Otherwise the print image is blurred (shadow print).



With HI Speed only A~B is possible.

Instruction

Please select a nozzle row as follows:

| Step | Procedure |
|------|--|
| 1 | Press tab Print head 1 or Print head 2 (depends on the number of the activated print heads) and select the desired print head. |
| 2 | Click on the tab Print parameter . |
| 3 | Set the desired nozzle row setting in the dropdown menu. |

Upside down

The setting **Upside Down** causes the print image to be printed upside down.

Instruction

Please set up the upside down print as follows:

| Step | Procedure |
|------|--|
| 1 | Press tab Print head 1 or Print head 2 (depends on the number of the activated print heads) and select the desired print head. |
| 2 | Click on the tab Print parameter . |
| 3 | Activate upside down in the dropdown-menu. |

Encoder resolution

The encoder resolution is a pilot tool to identify the correct encoder resolution in the print parameter menu.

The encoder resolution is called up with the additional button.

| Encoder resolution in ppi | | 639 | < | > | |
|-------------------------------------|-------------|----------------|---------|----------|--------|
| | | | | | |
| Encoder resolution calculator | | | _ | | × |
| Encoder pulses per rotation: | Encoder | wheel direct | on the | conveyc | or |
| Friction Wheel diameter in mm: | Distance pe | er rotation in | mm: | | |
| 64,4 < > | 198,7 | < > | | | |
| (67,4mm = 600ppi / 63,6mm = 636ppi) | | | | | |
| Calculation ppi shaft encoder | | | | | |
| 628 ppi | | Apply | | Cancel | |
| | | | | | |
| | | Fig | . 26: D | PI-calcu | ulator |

Instruction

Please calculate the encoder resolution as follows:

| Step | Procedure |
|------|---|
| 1 | First determine the number of pulses, generated by the encoder for a complete rotation and set the value in the field "Encoder pulses per rotation". |
| 2 | If the encoder runs direct on the conveyor with a wheel, select the corresponding checkbox. Depending on your selection the other needed fields will be activated. |
| 3 | If the encoder wheel runs direct on the conveyor: Determine the diameter of the friction wheel and enter the value in the corresponding field. |
| 4 | If the encoder isn't installed on the conveyor directly: Determine the distance of the conveyor per rotation of the wheel and enter the value in the corresponding field. |
| 5 | If you have done all settings, you can see the value below "Calculation dpi Shaft Encoder". |
| 6 | Click on "Apply" to adopt the value in the print parameter menu as effective resolution and close the DPI-calculator. |
| | A fine tuning of the DPI number is necessary for an optimal print result. |

Repeat distance / Print repeat number

To print several print images on one product, the number of print images and the distance between them must be specified.

The distance between print images is measured from print start to print start.

If you select "5" the print image will be printed 6 times. 1 print plus 5 repeats.

998 prints 999 print images.

Endless printing can be activated with print repeat of "999".

| Parameter | Min. | Max. | Unit |
|-------------------------------|------|------|------|
| Distance between print images | 0 | 9999 | mm |
| Number of print images | 0 | 999 | - |

To enter the repeat distance and the print repeat number,

- Press arrow keys and set the required delay value.

Endless printing can be activated with a click on the button \sim at the print repeat number. The value goes to 999 automatically.

Reverse print delay

Is the print direction backward, i.e. the product moves on the print head from left to right, the calculation point for the print start delay can set to right or left edge of the print image.

The setting "left border" ensures a consistent left alignment. It should be noted that the width of the print image needs to be part of the set value.

Instruction

Please set up the Reverse print delay as follows:

| Step | Procedure |
|------|--|
| 1 | Press tab Print head 1 or Print head 2 (depends on the number of the activated print heads) and select the desired print head. |
| 2 | Click on the tab Print parameter . |
| 3 | Select "left border" or "right border" in the dropdown menu Reverse print delay. |

The print start delay must be greater than the print length.



Fig. 27: Reverse Print Delay

Print start delay bi-directional

If the setting "print direction" will be used at the input signal, the print start delay applies for the opposite print direction.

Therefore, the print is positioned exactly by using the print direction reversal. The parameter "Reverse print delay" should set to "left border".



These parameter is only visible if one input is set to "print direction".

Instruction

Please select the print start delay bi-directional as follows:

| Step | Procedure |
|------|---|
| 1 | Press tab Head 1 or Head 2 (depends on the number of the activated print heads) and select the desired print head. |
| 2 | Set one input signal to "print direction" in the tab Inputs. ⇒ The parameter "print start delay bi-directional" is shown in the tab Print parameter. |
| 3 | Press arrow keys and set the required value. |



Fig. 28: Print Start Delay bi-directional

Tab Head # Print Parameters

The print head setup depends on the connected print technology and adopt automatically.



Please read the operator manual of the print system to set the print parameter.

Instruction

Please change the print head setup as follows:

| Step | Procedure | | | | | |
|------|-----------------------------|------------------------------|-----------------|---------------------|-------|--------|
| 1 | Click on the print head set | up tab to select ther | n. | | | |
| | | Head 1 System Options Terr | ninal | | | |
| | | | Print Paramete | rs | | |
| | | | Print head setu | ıp | | |
| | | Ink type | | SDBLK3 | | \sim |
| | | Head voltage in 1/10 V | | 88 | < | > |
| | | Fire time in 10ns | | 180 | < | > |
| | | Ink warning in % | | 5 | < | > |
| | | Pulse source | | Encoder 1+2 | | \sim |
| | | Sensor source | | Sensor 1+2 | | \sim |
| | | Zoom optimization | | | On 🧲 | |
| | | HiSpeed | | | Off 🗨 | |
| | | Counter start value | | from label (default |) | \sim |
| | | Store variable fields | | | Off 🗨 | |
| | | Cable length | | 3 | < | > |
| | | Local head name | | Head 1 | | Ø |
| | | Print start signal | | | | |
| | | | | | | |
| | | | | | | |
| | | S¢ | pitting and War | ming | | |
| | | | Calibration | | | |
| | | | Inputs | | | |
| | | | | Fig. 29: Print | head | setup |

| 2 | Change the print head setups to configure the desired system. |
|---|---|
| | All changes will be send to the system immediately. |

NOTICE

The head voltage and fire time will be set automatically, depends on the ink type.

The values should be change carefully and after instruction, otherwise the cartridge can be damaged.

Store variable fields

This option specifies whether a queried variable field is saved with print request and will be displayed as default line with a new print request. This is useful to enter only the data that has actually changed. Data that hasn't changes can confirm by the Enter-button.

Instruction

Please save variable fields as follows:

| Step | Procedure |
|------|--|
| 1 | Select in the submenu Head # the tab Print head setup. |
| 2 | Set the desired option in the dropdown menu "Store variable fields". |

Tab Head # Spitting and Warming

The Spitting and Warming adjustments depending on the connected print technology. For Trident (MX) and Xaar(XR) is this parameter not available.



Please read the operator manual of the print system to set the print parameter.

Instruction

Please change the spitting and warming setting as follows:

| Step | Procedure |
|------|---|
| 1 | Click on the Spitting and Warming button in the Head # menu to select the |
| | spitting and warming settings. |

| Head 1 System Options | Terminal | | | |
|--------------------------|-----------------|----------|-----|--------|
| | Print Paramet | ers | | |
| | Print head set | up | | |
| | Spitting and Wa | rming | | |
| Spitting | | disabled | | \sim |
| Spit on after in sec | | | 1 < | > |
| Spit rows in pixel | | | 1 < | > |
| Spit interval in sec | | | 1 < | > |
| Spit auto off in min | | | • 0 | > |
| Warming | | disabled | | \sim |
| Warming temperature °C | | 2 | 0 < | > |
| Warming off timer in sec | | | 0 < | > |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | Calibration | i | | |
| | Inputs | | | |
| | | | | |

Fig. 30: Spitting and Warming

2

Now change the Spitting and Warming settings to configure the selected device. ⇒ Any changes are immediately sent to the system.

Tab Head # Calibration

If a twin print head or a print head with several modules (Triple, Quad, ...) is connected to the controller, the offset between the two print heads must be adjusted, if necessary. If single print heads are connected, a calibration isn't necessary.



Before the print heads are calibrated, the print speed or the rotary encoder setting must be correct.

The offset between the two print heads is compensated for by the input of correction factors. A negative value means that the print image of this cartridge moves to the left side and reverse.

The print head must be installed horizontal. There must be neither an overlap nor a gap between the cartridges in the vertical. Test it with a print image over all heads.

The speed must be set optimum. The nozzles must be in one row by printing with A+B. This can be controlled with a loupe. There must be no shadow print be present.

The intensity must be set optimal by a printing with shaft encoder.

Instruction

Please enter the calibration value as follows:

| Step | Procedure |
|------|--|
| 1 | Press arrow keys and set the required value. |

Tab Head # Inputs

The inputs of the print system can have configured optional and customer-specific.

It can select between:

- Print direction
- Upside down
- Print pause
- Label selection
- Bulk System
- Shutter Print Head
- Reset ink level

Tab System # Device Setup

In the "Device Setup" menu, all adjustable device-specific setting options are displayed and can be changed.

The elements of the list can differ depending on the connected device.

| Head 1 System Options Terminal | |
|--------------------------------|---------------------------------|
| Device Setu | р |
| Language | English ~ |
| Store parameter into label | disabled \checkmark |
| Barcode correction in pixel | 0 < > |
| 2D code pixel reduction | 3 < > |
| Print technology channel 1 | HP-MK2 Hewlett Packard® 🗸 |
| Print technology channel 2 | HP-MK2 Hewlett Packard ® \sim |
| NonStopPrinting | Off ~ |
| Head configuration | 4000 |
| Device name | N08766-x4 |
| Configuration code | Pro 🖉 |
| Update firmware | 4.025a |
| IP address | 192.168.8.224 |
| Netmask | 255.255.255.0 |
| Gateway | 0.0.0.0 |
| Stitch device | 0.0.0.0 |
| | |
| In- and output | uts |
| Serial interface E | IA 232 |
| Special settin | gs |
| | |

Fig. 31: System settings



Language

The **language** field lists all the installed user languages, in which the user interface of the print system can be displayed.

Instruction

Please set the language as follows:

| Step | Procedure |
|------|--|
| 1 | Select the tab System in the submenu Device Setup. |
| 2 | Set the desired language in the dropdown menu Language |

Store parameter into label

Following functions can select in the field **Store parameter into label**:

| Disabled: | The parameters, which are set in the system, are used, even if the print label parameter is saved. |
|-----------------|--|
| Read only: | The saved parameters of a print label are used. |
| Read and write: | The changed parameters of the actual printed label can be saved. |



The X1JET can only read parameter, because parameter can't change and save with the X1JET.

Instruction

Please select Store parameter to label as follows:

| Step | Procedure |
|------|---|
| 1 | Select the tab System in the submenu Device Setup. |
| 2 | Set the desired function in the dropdown menu Store parameter into label. |

Barcode correction

This option provides the opportunity to improve the readability of a barcode element by widening or narrowing. If, for example, the runs heavily on a coarse fibrillate surface, the readability can be restored by a pixel-wise reduction of the line width.

Instruction

Please make a barcode correction as follows:

| Step | Procedure |
|------|---|
| 1 | Select the System in the submenu Device Setup. |
| 2 | Press arrow keys and set the required Barcode correction . |

Data matrix pixel reduction

This setting reduces the size of a 2D-code module pixel by pixel. The setting may be necessary when the ink blends strongly on the surface and the readability of the code is impaired. A reduction can optimize the readability.

Turn display

The display for TOP application can be turned through 180° by setting in the idesign8+ software.



This function isn't available in all print systems!

Print technology

The field **Print technology** listed all supported print technologies of the print system.

Instruction

Please select a print technology for each channel as follows:

| Step | Procedure |
|------|---|
| 1 | Select the tab System in the submenu Device setup. |
| 2 | Set the desired technology in the dropdown menu Print technology . |

| Head 1 Sy | stem | Options | Terminal | | | | |
|-------------|----------|------------|-----------|----------------------|----------------|----------|--------|
| | | | De | vice Setup | | | |
| Language | | | | | English | | \sim |
| Store para | meter i | into label | | | disabled | | \sim |
| Barcode co | orrectio | on in pixe | I | | 0 | < | > |
| 2D code p | ixel rec | duction | | | 3 | < | > |
| Print techn | ology | channel 1 | | | HP-MK2 Hewlett | Packard® | \sim |
| Print techn | ology | channel 2 | | | HP-MK2 Hewlett | Packard® | \sim |
| NonStopPr | inting | | | | Off | | \sim |
| Head conf | igurati | on | | | 4000 | | Ø |
| Device nar | ne | | | | N08766-x4 | | Ø |
| Configurat | ion co | de | | | Pro | | Ø |
| Jpdate firi | nware | | | | 4.025a | | Ø |
| P address | | | | | 192.168.8.224 | | Ø |
| Netmask | | | | | 255.255.255.0 | | Ø |
| Gateway | | | | | 0.0.0.0 | | Ø |
| Stitch devi | ce | | | | 0.0.0.0 | | Ø |
| | | | | | | | |
| | | | In- a | and output | ts | | |
| | | | Serial in | terface El/ | A 232 | | |
| | | | Spe | cial settin <u>c</u> | js | | |
| | | | | | Fig. 32: Prin | t Techn | ology |

It's mandatory to restart the system after changing the print head technology.

integra PP108 360/180 dpi und bicolor setting

| Step | Procedure | | | | | |
|------|---------------|---|------------|-------------------------|-----------|-----|
| 1 | Select the ta | Select the tab System in the submenu Device setup submenu. | | | | |
| 2 | Set the desir | Set the desired technology in the dropdown menu Print technology . | | | | |
| | | Head 1 System Options Terminal | | | | |
| | | | Device S | etup | | |
| | | Language | | English | \sim | ^ |
| | | Store parameter into label | | Disabled | \sim | |
| | | Barcode correction in pixel | | 0 < | > | |
| | | 2D code pixel reduction | | 0 < | > | |
| | | Print technology channel 1 | | HP-Class MK2 | ~ | |
| | | Print technology channel 2 | | HP-Class MK2 | ~ | |
| | | NonStopPrinting | | Off | \sim | |
| | | Head configuration | | 4000 | Ø | |
| | | Device name | | O08102-x4 | ß | ~ |
| | | In | puts and (| Outputs | | |
| | | RS- | 232 Serial | Interface | | |
| | | | Special Se | ettings | | |
| | | | | Fig. 33: Print head cor | nfigurati | ion |

NonStopPrinting

In the field **NonStopPrinting** can be selected whether it should be print with a NonStopPrinting print head continuously without downtimes.

Instruction

Please select the NonStopPrinting function as follows:

| Step | Procedure |
|------|--|
| 1 | Select the tab System in the submenu Device Setup. |
| 2 | Set the desired function in the dropdown menu NonStopPrinting. |



The function can be used for HP and LX print heads. A special print head is necessary.

HiSpeed

In the field HiSpeed can be selected whether the print system should print with HiSpeed or not.

HP print heads can reach a maximum speed of 180 m/min at 300x300 dpi, LX print heads reach a maximum speed of 240 m/min.

Instruction

Please select the HiSpeed function as follows:

| Step | Procedure |
|------|--|
| 1 | Select the tab System in the submenu Device Setup. |
| 2 | Set the desired function in the dropdown menu HiSpeed . |



The function can be used for HP and LX print heads. This function isn't available in all print systems.

Head configuration

Instruction

Please change the Head configuration as follows:

| - | Procedure | |
|---|--|--|
| | Click on the icon in the column Head configuration ⇒ A dialog opens in which the new configuration can be s | to change this. set. |
| | The dialog is split in two columns: | |
| | 4000 | × |
| | HP Head 1 | Θ |
| | HP CLASS HP CLASS | |
| | CLASS | Ok Cancel |
| | F | Fig. 34: Head configuration |
| | Here are displayed all available print head connecti | ons with their print |
| | Technologies for the system. <i>Right column:</i> The print head modules will be displayed graphically. The height of the print head modules covers the used print the left column. | t head connections in |
| 2 | The print head modules will be displayed graphically. The height of the print head modules covers the used print the left column. | t head connections in $\frac{1}{2} \Theta$. |
| 2 | The print head modules will be displayed graphically. The print head modules will be displayed graphically. The height of the print head modules covers the used print the left column. Each print head module can adapt via the buttons (+) and (+) add a new print head module to an unassigned print head print head module to an unassigned print head print head print head module to an unassigned print head module to an unassigned print head prin | t head connections in $\mathbf{G}_{\mathbf{r}}$ |
| 2 | The print head modules will be displayed graphically. The print head modules will be displayed graphically. The height of the print head modules covers the used print the left column. Each print head module can adapt via the buttons (+) and (+) add a new print head module to an unassigned print hor Or Enhanced an existing print head module by a print head c | t head connections in $g \Theta$. lead connection. |
| 2 | Fight column: The print head modules will be displayed graphically. The height of the print head modules covers the used print the left column. Each print head module can adapt via the buttons (+) and (+) add a new print head module to an unassigned print h Or Enhanced an existing print head module by a print head connection of the print head | t head connections in $\Box \ \bigcirc$. lead connection. connection. d module. |
| 2 | Right column: The print head modules will be displayed graphically. The height of the print head modules covers the used print the left column. Each print head module can adapt via the buttons ⁽⁺⁾ and ⁽⁺⁾ add a new print head module to an unassigned print h Or Enhanced an existing print head module by a print head concerning the last print head connection of the print head module has one print head comprint head module will be deleted with a click on | t head connections in \bigcirc . Head connection. Connection. Homodule. |
| 2 | Right column: The print head modules will be displayed graphically. The height of the print head modules covers the used print the left column. Each print head module can adapt via the buttons ⊕ and ⊕ add a new print head module to an unassigned print h Or Enhanced an existing print head module by a print head comprint head module has one print head comprint head module will be deleted with a click on If the print head module will be deleted with a click on The buttons ⊕ and ⊖ are available only w supports the underlying action. | t head connections in $g \odot$. Head connection. connection. d module. mnection only, the \odot . when the system |

Device name

Instruction

Please change the Device name as follows:

| Step | Procedure |
|------|--|
| 1 | Click on the icon in the column Device Name: to change the system name. ⇒ It opens a dialog where the new name will be asked. |
| | Change device name N08766-x4 |
| | Ok Cancel Fig. 35: Dialog to change the system name |
| 2 | Enter the new name in the text field and confirm your input with OK . ⇒ The system name will be changed in idesign8+. |
| | NOTICE The possibility to change the name doesn't exist for virtual USB system. |

Configuration code

Send new system configuration for

iJET, X-Series:

It's possible to change the system configuration for the iJET and X-Series, i.e. the setting if the controller is a Print, Basic, Advanced or Pro system. This is possible via a configuration code. You'll get the configuration code from your local distributor with costs.

Instruction

Please change the system configuration as follows:

| Step | Procedure |
|------|--|
| 1 | Settings \rightarrow System \rightarrow Configuration code |
| 2 | Click on the right icon in the line "configuration code" |

| Step | Procedure |
|------|---|
| | Insert configuration code: GPEFØT6LRG1002JWMDWG |
| | Ok Cancel Fig. 36: Dialog: Activation code |
| 3 | Insert the activation code in the dialog. |
| 4 | Confirm the following dialog with OK. |
| 5 | Remove the USB-stick with the X-Series data from the PC. |
| 6 | Connect the USB-stick to the X-Series and wait until the system restarts. |
| | |

Firmware Update



Data loss effected by update!

It can happen a data loss with an update of the system software.

Therefore:

Perform a backup before every update (see: "Advanced settings").

Instruction

Please update a print system as follows:

| Step | Procedure |
|------|--|
| 1 | To update a new print system, click on System settings in the menu Options. |
| 2 | Select the file card System. |
| 3 | Click in the line "firmware" on the right icon to start the update process. ⇒ You will guided through the update process depending on the system. |

iJET / X-Series USB Update (offline)

To make a USB offline update, please follow the manual below idesign8+ user management. Also refer to the operating instructions for the device

iJET / X-Series Online Update



The online update for a print system is only possible with the latest firmware.



Don't disconnect the power supply voltage of the system and don't switch it off.

Instruction

Please select a new firmware as follows:

| Step | Procedure |
|------|---|
| 1 | Select the desired firmware file in the file dialog. (file extension: .IMG) for the |
| | X4Jet and click on Open. |

| Suchen <u>i</u> n: | firmware | ~ | 🔄 🌀 🏂 📂 🖽 🕤 | |
|--------------------|---------------------|---------------------------|------------------|-----------|
| - | Name | | Änderungsdatum | Туг |
| | BootLoad | ler_0e_x1Jet | 18.09.2019 08:03 | Da |
| Schnellzugriff | BootLoad | ler_0f_x1Jet | 10.03.2020 08:57 | Da |
| | BootLoad | ler_1c_x1Jet | 17.04.2020 10:19 | Da |
| | BootLoad | ler_1f_x4Jet | 01.08.2016 08:30 | Da |
| Desktop | BootLoad | ler_1h_x4Jet | 18.09.2019 08:03 | Da |
| _ | BootLoad | ler_2c_x4Jet | 17.04.2020 10:19 | Da |
| | HMI | | 17.04.2020 10:19 | Da |
| Bibliotheken | Stick_Chk | :Dsk_1a_x1Jet | 16.03.2018 13:58 | Da |
| | Stick_Chk | :Dsk_1a_x4Jet+ | 17.04.2020 10:19 | Da |
| | StickV201 | 4_x4Jet | 10.10.2016 08:34 | Da |
| Dieser PC | StickV201 | 8_x1Jet | 10.10.2016 08:34 | Da |
| | StickV202 | 0_x1Jet | 01.08.2016 08:30 | Da |
| I | StickV202 | 0 v4let | 01.08.2016.08-30 | D; |
| Netzwerk | | | | 2 |
| | Datei <u>n</u> ame: | | \sim | Öffnen |
| | Dateitvp: | Firmware X21FT plus/X41FT | \sim | Abbrechen |

Fig. 37: Firmware selection

2

Use always the highest number when several firmware versions are available.
 ⇒ An information window opens which shows that the firmware will be sent to the system.



3

Concluding an information window opens and the system restarts.

Change IP-address

Instruction

Please change the IP address as follows:

| Step | Procedure |
|------|--|
| 1 | Click on the icon in the column IP-address to change the IP address. ⇒ It opens a dialog where the new IP-address can be entered. |
| | Change ip address: 192 . 168 . 8 . 224 |
| | Ok Cancel Fig. 40: Dialog for changing the IP address |
| 2 | Enter the new IP address in the entry mask and confirm the input with OK. ⇒ Following the IP address of the print system will be changed. If the system was already connected with idesign8+ by TCP/IP, the IP address will also be changed there, ⇒ If the system wasn't connected by TCP/IP, you will be asked if the system should be added by TCP/IP |

Net mask / Gateway

Change the net mask / gateway address of the system with this function.



Consult the system administrator for network settings. Network damages can be caused by incorrect settings.

Stitch device

With this function it is possible to connect several X1JET Stitches with each other.



Instruction

Please connect the system to one Stitch system as follows:

| Step | Procedure | |
|------|--|--|
| 1 | Click in the menu Tools on the submenu General settings. | |
| 2 | Activate the Stitch function. | |
| | | |

| 🔓 😰 Status | | Kopf 1 System Optionen Terminal | |
|---------------------|---------------|------------------------------------|-------|
| Drucken | line | Druckparameter | r |
| | 110257.11 | Druckkopfeinstellun | igen |
| Druckbild sichem | 192.168.8.111 | Spitting und Warm | ing |
| 🔀 🛱 Einstellungen | | Kalibrierung | |
| 😥 🔂 Druckbildgruppe | | Verschieben in Pixel Schreibkopf 1 | 0 < > |
| 鳳 | | Verschieben in Pixel Schreibkopf 2 | 0 < > |
| | | Verschieben in Pixel Schreibkopf 3 | 0 < > |
| | | | |
| | | | |
| 8 | | | |
| 0 | | | |
| | | | |
| | | | |

Fig. 41: Different IP addresses of stitch systems

3

To connect the first X1JET Stitch with the second select in the menu Functions \rightarrow submenu Settings \rightarrow tab System \rightarrow Device setup \rightarrow field Stitch device the IP address of the next system







Fig. 43: Stitch configuration

5 Then connect another head to the second one. Repeat this procedure until the number of desired heads is reached. ⇔

The configuration of all connected heads is displayed in the tab System.

| Step | Procedure | |
|------|---------------------------|-------|
| | Settings | × |
| | Fig. 44: Stitch configura | ation |

6

7

Additional there is the possibility to calibrate the heads to get a vertical line. Click in the tab **Print Parameters** on **Calibration**.

| 7 | | | | Settings | | | | | |
|----|---|--------------|----------------------------|--------------------------------|---------------|---|---|--|--|
| 8 | | Status | | Head 1 System Options Terminal | | | | | |
| B. | Ā | Drint | (Server | Print | t Parameters | | | | |
| EO | 6 | Plint | 0 | Prin | thead Setup | | | | |
| Ø | ₹ | Label Backup | 110357-x1 192.168.8.111 | Spittin | g and Warming | | | | |
| * | 嵒 | Settings | | c | alibration | | | | |
| ŝ | 嵒 | Label group | | Shifting in pixel print head 1 | 0 | ¢ | > | | |
| | | | | Shifting in pixel print head 2 | 0 | ¢ | 5 | | |
| -0 | | | | Shifting in pixel print head 3 | 0 | 4 | > | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| 8 | | | | | | | | | |
| i | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| 0 | | | | | | | | | |

Fig. 45: Stitch system – cartridge calibration

The parameters of the Stitch system are displayed and can change for all heads at once in the tab **Print Parameters.**



| Step | Procedure |
|------|---|
| 8 | To use the systems separately again, remove the Stitch connection. Thereforeclick on theIcon, a dialog window appears, and remove the connection.⇒The number of the Stitch device is 0.0.0.0 again. |
| | |



First the system should be set up so that the pressure is 99% okay. Only then should the last millimeters be optimized with the calibration function.

Tab System # In- and Outputs

All connected in- and outputs of the system can be set with this function.

A variety of configurations are possible and so the connectors for output of status messages (OK, Warning, Error), cartridge level messages (5% low / empty), print ready and print pulse are possible to use. On the input side signals for heating, spitting, print direction, upside print, stop and text selection are possible.

The inputs are NPN inputs standard. You can switch to PNP with the idesign8 software, but this only applies to the X2 and X4 JET.

Instruction

Please set the in- and outputs as follows:

| Step | Procedure | | | | | |
|------|--|--|------------------------------------|--|--|--|
| 1 | Click in the menu Se ⇔ The submenu Sy | Click in the menu Settings on the submenu System . | | | | |
| 2 | Click on the tab In- a | Click on the tab In- and Outputs. | | | | |
| | | Head 1 System Options Termin | al | | | |
| | | | Device Setup | | | |
| | | Ir | - and outputs | | | |
| | | Polarity Print Start 1-4 | NPN | | | |
| | | Polarity Input 1-4 | NPN | | | |
| | | Polarity Input 5-8 | NPN | | | |
| | | Output 1 - red | Alarm all cart. | | | |
| | | Output 2 - yellow | Warning all cart. \checkmark | | | |
| | | Output 3 - green | Ok all cart. | | | |
| | | Output 4 - reserve | Off(default) | | | |
| | | Output 5 - external 1 | Ok all cart. | | | |
| | | Output 6 - external 2 | Warning all cart. \checkmark | | | |
| | | Output 7 - external 3 | Alarm all cart. | | | |
| | | Output 8 - external 4 | Off(default) | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | Serial | interface EIA 232 | | | |
| | | S | pecial settings | | | |
| | | F | ig. 47: Input Output Configuration | | | |

| List of inputs | |
|---|--|
| Off | Not used |
| Print direction | Reverse print direction (e.g. for moving unit) |
| Upside down | Turns the print image upside down 180°. |
| Print pause | Print pause as long as the input is active, with NSP: one pulse pauses the idle print head |
| Label Selection | External print image selection (!EXT01.00I to |
| Bulk System(ZTV) | The status output of a ZTV can be connected in a defined way. ZTV only available for input 1 and 2 on head 1! |
| Shutter print head | Contact for opening the shutter print head |
| Reset ink level | Ink level reset – only for Non SmartCard Cartridges. |
| Purge X1 MX/XR | Only for X1 with Trident (MX) or Xaar (XR) |
| Counter reset Counter up Counter down | Contact for resetting the counter |

List of Outputs

00 = Off 01 = On 02 = Warning + Alarm (all heads) 03 = TZ Buffer Empty

04 = Shutter open 10 = OK (all heads) 11 = OK (Group 1)12 = OK (Group 2)13 = OK (head 1)14 = OK (head 2)15 = OK (head 3)16 = OK (head 4)20 = Warning (all heads) 21 = Warning (Group 1) 22 = Warning (Group 2)23 = Warning (head 1)24 = Warning (head 2)25 = Warning (head 3)26 = Warning (head 4)30 = Alarm (all heads) 31 = Alarm (Group 1)32 = Alarm (Group 2) 33 = Alarm (head 1)34 = Alarm (head 2)35 = Alarm (head 3)36 = Alarm (head 4)40 = Low ink (all heads)41 = Low ink (Group 1)42 = Low ink (Group 2)43 = Low ink (head 1)44 = Low ink (head 2)

In case of external control via TZ command and single print mode, the reception queue is empty.

Socket 1+2 Socket 3+4 45 = Low ink (head 3)46 = Low ink (head 4)47 = Barcode exists (head 1) 48 = Barcode exists (head 2)50 = Ink empty (all heads)51 = Ink empty (Group 1)52 = Ink empty (Group 2)53 = Ink empty (head 1)54 = lnk empty (head 2)55 = Ink empty (head 3)56 = lnk empty (head 4)57 = Barcode exists (head 3)58 = Barcode exists (head 4)60 = Print ready (all heads) (so long as Busy is on) 61 = Print ready (Group 1) 62 = Print ready (Group 2)63 = Print ready (head 1)64 = Print ready (head 2)65 = Print ready (head 3)66 = Print ready (head 4)70 = OK *2(all heads) 71 = OK *2(channel 1) 72 = OK *2(channel 2) 73 = OK *2(head 1) 74 = OK *2(head 2) 75 = OK *2(head3) 76 = OK * 2(head 4)80 = OK *3(all heads)81 = OK *3(channel 1) 82 = OK *3(channel 2) 83 = OK *3(head1) 84 = OK *3(head2) 85 = OK *3(head3) 86 = OK *3(head4)

OK *2: Ok if cartridge exists and recognized, no Alarm, label retrieved, ink level not under 0%. OK *3: Ok if cartridge exists and recognized, no Alarm also if **not** label retrieved, ink level not under 0%.

BCD Selecting label for print

To configure a print image selection and assignment with input wiring of e.g. a PLC, proceed as follows.



This function is available for the X-Series and integra One devices.

1. Define inputs - Depending on the number of print images to be selected, the corresponding number of inputs must be defined. Up to 99 different print images can be selected.

| Head 1 | System | Options | Terminal | | | | | | |
|---------|--------------------|---------|-----------|------------|--------------------------------------|--|--|--|--|
| | Device Setup | | | | | | | | |
| | Inputs and Outputs | | | | | | | | |
| Input 1 | | | | | Label selection | | | | |
| Input 2 | | | | | Label selection | | | | |
| Output | 1 - red | | | | Ok all cart. | | | | |
| Output | 2 - yellov | v | | | Warning all cart. ~ | | | | |
| Output | 3 - green | | | | Alarm all cart. | | | | |
| Output | 4 - reserv | ed | | | Off(default) | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | Serial In | terface El | A 232 | | | | |
| | | | Spec | ial Settin | as | | | | |
| | | | Spec | Fig. 48. (| Configure Inputs for label selection | | | | |

2. In order to be able to select a print image via the input signals, these print images must have a special name format.

e.g. !EXT01.00I !EXT → identifier 01 → number of print image .00I → technology depending file extension (in this case HP/LX)

One print head of a printer module Series has 8 input signals. A user can configure those signals using the idesign software.

Up to 5 input signals can be used for label selection.

That makes a total of 32 different labels, which can be selected by input signals.

Each of the input signals can be understood like a binary numeric digit in a parallel bus. The table below provides an overview on how the signals should be set in order to select a given label.

| Input signals | | | | | Selected Text | |
|---------------|---|---|---|---|---------------|--|
| 1 | 2 | 3 | 4 | 5 | | |
| 0 | 0 | 0 | 0 | 0 | !EXT00.00I | |
| 1 | 0 | 0 | 0 | 0 | !EXT01.00I | |
| 0 | 1 | 0 | 0 | 0 | !EXT02.00I | |
| 1 | 1 | 0 | 0 | 0 | !EXT03.00I | |
| 0 | 0 | 1 | 0 | 0 | !EXT04.00I | |

Tab System # Serial Interface EIA232

Instruction

Please configure the serial interface EIA232 as follows:

| Step | Procedure |
|------|---|
| 1 | Click in the menu Settings on the submenu System . ⇔The submenu System opens. |
| 2 | Click on the tab Serial Interface EIA232. |
| 3 | Select baud rate, data bits, parity and number of stop bits. |

| Head 1 Syste | em Options | Terminal | | |
|--------------|------------|----------------|--------------------|-----------------|
| | | Device S | Setup | |
| | | In- and o | outputs | |
| | | Serial interfa | ce EIA 232 | |
| Baudrate | | | 9600 | \sim |
| Data Bits | | | 8bit | \sim |
| Parity | | | none | ~ |
| Stop Bit | | | 1 | \sim |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | Special s | ettings | |
| | | | Fig. 49: Serial in | nterface EIA232 |

| Head 1 System Options Terminal | |
|--|-------|
| Device Setup | |
| In- and outputs | |
| Serial interface EIA | 232 |
| Special settings | |
| GS1 group separator | GS 🗨 |
| Print done message TZ cmd | Off 💽 |
| Head number S1 cmd | Off 🗨 |
| Print repeat - short trigger | Off 💽 |
| Print Busy as print ready signal | Off 💽 |
| Print start signals buffering | Off 💽 |
| Logo buffering | Off 💽 |
| Fixed counter for print repeat | Off 💽 |
| Ignore SmartCart ink settings | Off 💽 |
| Print start without encoder signals | Off 💽 |
| Encoder active channel | A |
| Data communication ZTV MK2 | Off 💽 |
| ZTV MK2 active | Off 💽 |
| Non Stop Printing status mode | Off 🔵 |
| Ultimate head instead of Shutter | Off 🗨 |
| Ultimate/Shutter static pre-pulse signal | Off 🗨 |

Tab System # Special settings

GS1 Group Separator

This option can be used for changing the group separator for a GS1 Data matrix and an EAN 128 code. The GS sign is set by default.

"Print done" – message TZ command

By default, comes the confirmation of the TZ command in the single print mode during the print start. With this option the confirmation can be timed to the after print event. See also "TZ command" in the Interface description.

Head number – Response after S1 command

This option generates a response of the preselected head number after sending the S1 command. e.g. K1 at the beginning of the S1 response.

Standby Function for X1 Jet

The Standby function for the X1JET can switch on when the On/Off button is pressed longer than 10 seconds. Standard the Standby function is switched off for new systems.

Print repeat short trigger

The default behavior is the print repetition cycle running as long as the trigger signal is present. If this option is "On", a short impulse (20ms) is enough to start the complete print repetition cycle.

"Print busy" signal as "Print ready" signal

The "Print busy" signal, which is present from print start to print end, can switched to a short impulse at the print end.

Print Start signals buffering

This feature allows to cache the print start signal is cached and executed a further print, even when the print start signal is activated during printing.

Logo Buffering (during the system start)

Enable for loading all Logos on starting up into the RAM buffer for fast switching logos very fast for the print buffer. Maximum size is 128kb per logo file. Max. size is 5MB.

Fixed counter for print repeat

The counter field in a print message will count only once within a complete repletion cycle. E.g. 111,222,333

Ignore SmartCard settings

Set to "On" in order to disable the reading of the ink parameters from the cartridge (MK2). The internal ink table will be used.

Print start X1 mobile

Special mode for accepting a print start signal also if no encoder signals are available yet.

X1JET HMI

It has to set to "On" if the external control box with user interface (HMI) should be connected.

Handhold multi-line

For multi-line printing in the X1 handhold, this option must be enabled. Multi-line means in this context that several printed images (max. 8) are printed one after the other to print more than 12mm high with several printing cycles.



Please check if the latest firmware version is loaded in the device (component Download idesign8+). This is the only way to ensure that all the special functions described are available. If a setting is only available for a specific version or printer type, it may be hidden

Tab Options - Function buttons



Load settings from file

Instruction

Please load settings from file as follows:

| Step | Procedure |
|------|---|
| 1 | Click the Open button to load an existing configuration. |
| 2 | Select the desired configuration file in the file dialog and confirm with Open. |
| 3 | Finally, click the Send button to transfer the loaded configuration to the printer. |



The saved settings can also be linked to a print image. See Editor "Description of functions" page 91 "Link to an existing parameter set."
Save settings to file

The print head and system settings can be saved on the PC. These can be used for a later system restore or linked to a print image to change system settings depending on the print image.

Instruction

Please save settings to file as follows:

| Step | Procedure |
|------|--|
| 1 | Click the Save button to save the settings. |
| 2 | Enter a file name in the subsequent dialog. |
| 3 | Finally click on Save. ⇒ The settings are saved under the file name you have chosen |

Load default settings

To reset all settings to factory defaults, press Default values - Header configuration, ink type and interface values are not changed

Fonts and logos

To enable the printer to correctly interpret and display the texts and graphics used in the print images, the respective fonts and logos must be transferred to the printer's memory. Standard the required fonts and logos for printing will be sent to the system automatically when a print image with fonts and logos will be create in the idesign8+ editor. There is the possibility to send the files manually.



Selection of the fonts and logos depends on the connected printer.

Send fonts

Instruction

Please send / delete fonts as follows:

| Step | Procedure | | | |
|------|-----------------------------|--|----------------|--|
| 1 | Select the "System settings | " button in the "Fu | unctions" reg | gister. |
| | | Head 1 System Option | s Terminal For | its Logos |
| | | Printer Fonts TrueType F | onts | |
| | | C:\Users\Public\idesign\f | fonts\ | X4JET plus (N08766-x4) |
| | | C:\Users\Public\idesign\f A1,5mm A1,5mmB A10mm A10mmB A10mmB A11mm A11mmB A12mm A12mmB A12mm A12mmB A2,5mm A2,5mmB A2,5mmB A20mm A2mm A2mm A2mmB A2mmB A2mmB A3mmB A4mmB A4mmB A5mmB A6mmB A6mmB A6mmB A7mm A7mmB A8mmB A8mmB A8mmB A8mmB A9mmB MX_100mm MX_100mm MX_100mm MX_10mm MX_10mm MX_10mm MX_10mm MX_10mm MX_10mm MX_10mm MX_10mm | Send | X4JET plus (N08766-x4) A1,5mm A1,5mmB A10mm A10mmB A11mmB A12mmB A12mmB A1mm A12mmB A2mmB A2mmB A2mmB A2mmB A2mmB A2mmB A2mmB A3mmB A4mm A3mmB A4mm A4mmB A5mm A5mmB A5 |
| | | MX_12mm MX_12mm bold | | MX_5mm bold |
| | | Solost | × II | MX 6mm bold |
| | | Select Select | . dii | Delete |

Fig. 52:Send fonts

| Step | Procedure |
|------|---|
| 2 | Select the "Font type" tab. |
| 3 | In the list displayed on the left, tick (simply click on) all the fonts to be sent OR: Click the Select all button to select all fonts that are not in the print system. |
| 4 | Click the Send button. |
| 5 | To delete a font in the printer's memory, select the font in the field and click the "Delete" button. |

Send logos

Select in the Function menu the System settings tab to send a logo to the selected system manually.

Instruction

Please send / delete logos as follows:

| Step | Procedure |
|------|---|
| 1 | Click on the Logos tab. |
| 2 | To select the logos, click (tick) the boxes in the list displayed on the left. Or: Click the Select all button. |



| 3 | Click the Send button. ⇒ The selected logos are sent to the printer and are shown in the list on the right. ⇒ A bar graph shows the sending progress. |
|---|---|
| 4 | To delete a logo in the printer's memory, select the logo in the field. |
| 5 | Click the Delete button or (to delete all logos) the Delete all button |

Shift code

Shift codes are short strings (1-4 signs), which are active, dependent on the actually time of day, and can integrate in print layouts.

The shift code can be print as date field with the placeholder "t" per sign in the layout.

Instruction

Please activate shift codes as follows:

| Step | Procedure | | | | | |
|------|--|-----------|-----------------------|-------|---------------------|---------|
| 1 | Activate the corresponding shift code line by clicking the checkbox to the left. | | | | | |
| | | Shiftcode | | | | × |
| | | Active | Start | End | Code | |
| | | | 06:00 🗘 | 14:00 | A | |
| | | | 14:01 🗘 | 21:01 | В | |
| | | | <mark>21</mark> :02 🗘 | 05:59 | С | |
| | | | 00:00 🗘 | 00:00 | Shift 4 | |
| | | | 00:00 🗘 | 00:00 | Shift 5 | |
| | | | 00:00 🗘 | 00:00 | Shift 6 | |
| | | | Send | Cl | ose | |
| | | | | Fig | J. 54: Shift code s | ettings |

| 2 | Following set the start time of the shift. (The end time is set by the software automatically) |
|---|---|
| 3 | Now type below code the desired marking. |
| 4 | Closing click send . ⇒ The configured shift codes will be send to the print system |



The shift code settings are only possible with the X-Series and integra One.

Set date/clock of the system

| Set | date and clock | | | | | | | × |
|-----|---------------------|-------------------|---------|--------|-----------|---------|----------------|------|
| | Windows Time | e | | | | | | |
| | Date: 16.07.2020 | Time: 11:54:37 | | | | | | |
| | timeoffset for | changing date | | | | | | |
| | Daylight Saving | O Enable | Disable | | Weekday i | in | Hour offset | |
| | Start | Januar 🗸 | | \sim | 0 | \sim | 0 | - |
| | End | Januar 🗸 | | \sim | 0 | \sim | 0 | - |
| | | | | | | Send | Cancel | |
| | | | | | | Fig. 55 | : Date/time di | alog |

Instruction

Please activate date / time as follows: You have following setting options:

Synchronization with Windows time (standard)

| Step | Procedure |
|------|--|
| 1 | Activate the checkbox "Windows time" to synchronize the date and time of the control system with the date and time of the PC. |
| 2 | Click on Send to send the actual time to the control system and close the dialog. |

Manual time setting

| Step | Procedure |
|------|--|
| 1 | Deactivate the checkbox "Windows time" to set the date and clock manually. ⇒ The fields to set date and time will be activated. |
| 2 | Set the desired date and the desired clock in the corresponding fields. |
| 3 | Click on Send and the values will be send to the print system and the dialog closed. |

Date offset

The date changes at midnight (00:00 o'clock) exactly. It's possible to set the printed date +/-24h in the label with idesign8+. I.e. if the date should change in the print image with the change of shift at 2 o'clock.

| Step | Procedure |
|------|---|
| 1 | Activate the checkbox "Time offset for changing date". The fields to set date and time will be activated. |
| 2 | Set the desired deviation. |
| 3 | Click on send to send the values to the print system and to close the dialog. |



The MANUALLY time adjustment and date offset is only possible with the X-Series and integra One.

| Summertime | | |
|-----------------------|---|--------------------------------------|
| Activate / Deactivate | Switching on and off | |
| Start-/ end time | Month/ set weekday Day of the week in the month Time Offset i.e. Month Weekday Day of the week in the month Time Offset | : April : Wednesday : 2 : 6 |

The switchover takes place in April on the second Wednesday at 6 a.m. The switch-off time is defined in the same way.

Printer Passwords - User management on the systems

The printing systems have an integrated user management, if a user interface is available

The Markoprint systems have, like idesign8+, an integrated user management. idesign8+ offers therefore the possibility to manage the user on the systems. The user management on the systems offers two characteristics.

- To create, change and delete user.
- To change access levels on separate system menus.

Features

The user management for systems has some features that differ from the user management in idesign8+.

- 1. Max. 12 additional users can be created in the system.
- 2. Unblocking or blocking of separate menus in the system works only if the system is controlled via TCP/IP. This function isn't available if the system is connected via USB or serial.
- 3. Standard is one user on each system: User "Free" has access level 9. To use the user management wise, the user "Free" (standard user) must have an access level less than



User management is only available on printers with at least upgrade level "Pro". Otherwise the button is deactivated .

Setting up the user management of a printer with user interface

Select the device on which you want to change users or access levels and click on Settings. In the "Options" tab you will find the button "Printer Passwords".

| Head 1 | System | Options | Terminal |
|----------------|----------|-------------|-----------|
| B | Load se | ettings fro | m file |
| R | Save se | ttings to f | ile |
| С | Load de | efault sett | ings |
| ₽ _☉ | Fonts a | nd Logos | |
| 0.1 | Shiftco | de | |
| цõ | Set prin | ter clock | |
| Ĝ | Transfe | r ink table | |
| <u>A</u> | Printer | passwords | 5 |
| | Fig. 5 | 6: Printer | passwords |

The "Passwords" tab then appears.

Block standard (Free) user

| Sers Access Levels | | | | |
|--------------------|--------------|--------|--|--|
| ee name | Access level | | | |
| | | | | |
| Edit User | | × | | |
| User name | Free | | | |
| Access level | 1 | ~ | | |
| | | | | |
| | | | | |
| | | | | |
| | Ok | Cancel | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Fig. 57: Edit user

To reach that users can register on a system, the rights of the standard user "Free" must change. Select the user "Free" and click on the button **Edit User**. Select another authority than 9 and click on OK.

With Level 1 all menus are blocked.

Add user

Instruction

Please add user as follows:

| Step | Procedure | Procedure | |
|------|-----------------------------|---|------------------|
| 1 | Click the button Add User. | Click the button Add User. | |
| 2 | Enter a user name, the acce | ss level and password in the sub-v | vindow. |
| | | Add User | Х |
| | | User name operator Access level 4 Password ••• Repeat Password ••• | |
| | | | Ok Cancel |
| | | | Fig. 58:Add user |
| 3 | Confirm with OK. | | |

Changing a user's access level

Instruction

Please change access level of a user as follows:

| Step | Procedure |
|------|--|
| 1 | Select the user from the list. |
| 2 | Click on Edit User. |
| 3 | Select the new access level of the user in the dialog. |
| 4 | Confirm with OK . |

Delete user

Instruction

Please delete user as follows:

| Step | Procedure |
|------|--------------------------------|
| 1 | Select the user from the list. |
| 2 | Click on Delete User . |
| 3 | Confirm with OK . |

Access levels for menus

Instruction

Please select access levels for menus as follows:

| Step | Procedure |
|------|--|
| 1 | Start idesign8+ and register as administrator to change the access authorization for a menu of the system. |
| 2 | Select the system whose authorization you want to change. |

| Head 1 | System Options Te | rminal Passwords | |
|---------|-------------------|------------------|-----------------------|
| Users | Access Levels | | |
| Name | | Identity | Level ^ |
| Stop - | Start | F1_00 | 2 |
| Print D | Delay | F2_00 | 5 |
| Speed | | F2_01 | 5 |
| Encod | er | F2_02 | 5 |
| Intens | ity | F2_03 | 5 |
| Zoom | | F2_04 | 5 |
| Direct | ion | F2_05 | 5 |
| Nozzl | e | F2_06 | 5 |
| Upsid | e Down | F2_07 | 5 |
| Head | Adjust | F2_08 | 5 |
| Param | eter save | F2_09 | 7 |
| Start | | F3_00 | 2 |
| Edit | | F3_01 | 8 |
| New | | F3_02 | 8 |
| Delete | • | F3_03 | 8 |
| Bright | ness | F4_00 | 3 ~ |
| < | | | > |
| De | faults | | Change |
| | | Fig. 59: Acc | cess levels for menus |

| Step | Procedure |
|------|---|
| 3 | Click on Settings in the main menu and select the tab Device Users . Now select the tab Access Levels. |

Change the access level for a menu

Instruction

Please change access levels for a menu as follows:

| Step | Procedure |
|------|--|
| 1 | Select the menu you want to change. |
| 2 | Click on Change . |
| 3 | Select the new access level for this menu in the dialog. |

| Name | Identity | Level |
|----------------------------|---------------------|-------|
| Direction | F2_05 | 5 |
| Nozzle | F2_06 | 5 |
| Upside Down Head Adjust | Select Access Level | × 5 |
| Parameter save | | 7 |
| Start | 5 | 2 |
| Edit | | 8 |
| New | Ok Cancel | 8 |
| Delete | | 8 |
| Brightness | F4_00 | 3 |
| USB-Stick | F4_01 | 7 |
| Date | F5_00 | 8 |
| Time | F5_01 | 8 |
| Spitting Pulse | F5_02 | 6 |
| Spitting Time | F5_03 | 6 |
| Head Pulse | F5_04 | 7 |
| | | |

| 4 | Confirm with OK. |
|---|---|
| 5 | Restart the system after loading the new access levels on the system. The changes are effective now. ⇒ Therefore, idesign8+ shows a small dialog. You can also resign an immediate restart if you click on Cancel. |

Operation iJET / X4JET

A password was assigned, i.e. a password is required for the parameter to enter the menu: "password level 4".

Now a password of a user must be entered, who has the rights for level 4 or higher.

If an incorrect password is entered or there is no permission, the menu doesn't open.

After 5 minutes without using it is logged out automatically.

If you want to logout before, press the iLogik button in the status for 3 seconds. It appears "Locked!" on the display.

Operation X2JET plus / X4JET plus

A password was assigned, i.e. a password is required for the parameter to enter the menu: "password level 4".

Now a password of a user must be entered, who has the rights for level 4 or higher.

If an incorrect password is entered or there is no permission, the menu doesn't open. After 5 minutes without using it is logged out automatically.

If you want to logout before, press on the info button in the main screen shortly.

Tab Terminal

A direct communication with the coding systems can be done by the terminal. The commands are sent to the system by an existing connection. The answer of the system is shown in the lower window.



An incorrect use of the terminal can result data loss or faults of the system.



There is no checking of the correct notation of the command by idesign8+.

Syntax

The terminal is so designed that the used control characters will be translate in their byte code before it will be send to the print system.

The control characters will be convert in following syntax for a better write and read ability:

i.e. < ESC>* < CR> consists of 3 bytes: decimal. 27, 42, 13

Individual lines can be disabled by setting a // prefixed // <ESC>*<CR>

Following signs are interpreting

| <soh></soh> |
|-------------|
| <stx></stx> |
| <etx></etx> |
| <eot></eot> |
| <ack></ack> |
| <tab></tab> |
| <cr></cr> |
| <lf></lf> |
| <so></so> |
| <nak></nak> |
| <esc></esc> |
| |
| |

Input of Hex codes

It can also use hexodes in following syntax: i.e.: <0x1B>*<0x0D>

Sent and received control characters are highlighted in red in the communication window.

| Head 1 System Options lerminal Fonts Logos Passwords |
|---|
| Clear <esc>SV<cr> Send ANSI Open Save</cr></esc> |
| <esc>SV<cr></cr></esc> |
| |
| |
| |
| 4 |
| 16.07.2020 12:59:48 836 send: <esc>SV<cr> 16.07.2020 12:59:48 867 read: 4000:55(X4Jet+)Version 4.025a<cr></cr></cr></esc> |

Fig. 61: Terminal window

Send interval

If one or more commands should send continuously, it can start with the icon \square . The interval length can have specified in ms.

| h | nterval time in mse | C: | | |
|---|---------------------|----|-----|-------------------|
| | 1000 | | | |
| | | | Ok | Cancel |
| | | | Fiç | g. 62: Send inter |

Send command

Instruction

Please send command as follows:

| Step | Procedure |
|------|---|
| 1 | Type the desired command in the command window. |
| 2 | Click on Send . |

| NOTICE | The terminal allows the sending of separate asci signs. This must be specified in form <0x01> (for <soh>) in hexadecimal spelling.</soh> |
|--------|--|
| | |



The commands will be send to the coding systems. The answer of the system is shown in the lower window .

Use command templates

Instruction

Please use command templates as follows:

| Step | Procedure |
|------|---|
| 1 | Select the desired template in the upper drop-down menu. ⇒ The included command is added in the upper terminal window. |
| | Lines, which begins with "//" are comments and are not send. |
| 2 | Click on Send. ⇒ The commands will be send to the coding systems. The answer of the system is shown in the lower window. |
| NOT | With sleep 500 the sending between the lines can be delayed. The specification 500 can be changed and specifies the milliseconds. |
| NOT | The commands are transmitted to the printing device. The printer's response appears in the lower window. |
| | |

Load commands

Instruction

Please load commands as follows:

| Step | Procedure |
|------|--|
| 1 | To load already saved commands click on Open. |
| 2 | Browse by the file dialog to the desired file. |
| | The file extension for template files is .ast. |
| 3 | Open loads the data content of the file in the upper terminal window |
| 4 | Click on Send to send the commands to the coding system. ⇒ The file "Interface Commands.ast" is in the list. Here are prepared all commands of the iJET / X4JET with a short description. |

Save commands

Instruction

Please save commands as follows:

| Step | Procedure |
|------|---|
| 1 | Click on Save to save the currently shown commands in the upper terminal window. |
| 2 | Select the file dialog, a name and a storage location and confirm with Save. |

5. Connections

Add System

Instruction

Please add a system as follows:

| Step | Procedure |
|------|---|
| 1 | Click on the Add system button in the Connections register. |
| | Printer name: IP - Adress: SP01 192 . 168 . 1 . 2 Ok Cancel Fig. 63: Add system |
| 2 | Now enter a unique name and IP address of the new device. |
| ٨ | IOTICE Manual addition of connections is only required for Ethernet connections. USB connections are detected and shown automatically. Serial connections must be searched for manually using Search at Com Ports . |

Search in network

Search for Markoprint print systems in all available networks and display of these in idesign8+ automatically.



All connections will be saved automatic. They can give a name or can be deleted again.

Search at com ports

idesign8+ interrogate the known serial COM-Ports one after another to build up a serial communication to a coding system. If the software finds a coding system, this one will be linked to idesign8+ and can used afterwards.

Instruction

Please add a system to a serial port as follows:

| Step | Procedure |
|------|---|
| 1 | Select Search at Com Ports. ⇒ A status window opens where the search for system is shown. ⇒ If a system will be found, it is added to the software and is shown as system symbol. |
| | |

Search for known devices. (192.168.8.177)



Fig. 64: Search of printers at COM-Ports



The connection persists until the finish of idesign8+. The connection is rejecting by closing idesign8+. If you want to retain the connection please use the **Save connection** function.

Save USB connection

Instruction

Please save a USB connection as follows:

| Step | Procedure |
|------|---|
| 1 | Select a device in the system tool bar. |
| 2 | Click the Save button in the Connection tab. |
| 3 | Enter a name for the device and confirm it with OK. ⇒ The selected connection is saved and is now also available when the USB stick is plugged in again. |



Saving is only available for USB stick connections to explicitly name them. All other connection types are automatically saved under their serial number.

Delete connection

Instruction

Please delete connection as follows:

| Step | Procedure |
|------|--|
| 1 | Select a system in the system tool bar. |
| 2 | Select in the Connection tab the Delete connection button. |
| | Delete the selected connection? |

Fig. 65: Delete connection dialog

| 3 | Confirm the shown dialog with OK |
|---|--|
| | ⇒ The connection to the system will be deleted. The system symbol in the |
| | system tool bar is removed. |

System server

The idesign8+ system server organizes the connection and communication to the systems in the background.

The server is started by default with idesign8+, but can be deactivated and reactivated for maintenance and diagnostic purposes.

Stop Server

Instruction

Please stop the server as follows:

| Step | Procedure |
|------|---|
| 1 | Click in the Connection tab the Stop Server button. ⇒ After shutting down the idesign8+ server, all printer icons are removed. |
| | The Stop Server buttop cap only be selected when the |

| NOTICE | The Stop Server button can only be selected when the |
|--------|--|
| NOTIOL | server is running, i.e. when the gears in the status bar are rotating. |

Start Server

Instruction

Please start the server as follows:

| Step | Procedure |
|------|---|
| 1 | Click in the Connection tab the Start Server button. ⇒ After a successful start of the idesign8+ server, all stored connections are displayed again with their current status. |
| | |



Interface logging



Fig. 66: Interface Logging

The messages, which are generated from idesign8+ and the commands, which are send from idesign8+ to the system will be shown in real time and saved in the Log files menu.

Start

To start the real time logging,

- click on the **Start logging** button.
- \Rightarrow The generated system messages of idesign8+ are shown in the upper window.

Stop

To deactivate the logging,

- click on the **Stop logging** button.

Delete screen

To delete the logo screen,

click on the **Delete** button.

Save

To save the system messages of idesign8+ in a file automatically,

click on the Start logging button.

Select a folder and a file name for the log file and confirm with **Save**.



The log file is saved in the folder "idesign8+/Log/" standard.

The standard extension for log files is ".txt"

Select one system or all systems

Select the respective system with the help of the IP address or the name or all systems will be logged.

S06626-x1 (192.168.8.130)

Virtual systems on a USB-Stick

idesign8+ offers the possibility to connect virtual systems via a USB-stick. That means, all characteristics and data at the interface are deposit in a special subdirectory. The required directory structure can be created by connecting a USB-stick to a system.

If no system is available, idesign8+ provide virtual systems in the folder C:\User\Public\idesign8+\markoprint. Therefore, the complete folder markoprint will be copied in the main directory of a USB-stick. The folder markoprint includes images of all current system types. Not used systems can be deleted by removing the subdirectories. The virtual systems will be inserted in idesign8+ and will be available for all system-dependent functions by disconnecting and connecting the USB-stick.

This function is especially useful when no data connection is available. All operations, like print start, label backup or also parameter settings can be done on a virtual system to realize the operations by connect the USB-stick on a system.





All system-depending functions, also without a connection to the system, can be realized with the assistance of the virtual system function.

6. Layout

Description of functions

The Editor is used to create and administrate labels for transfer to one or more printers. Print images are a combination of text, graphics, barcodes and functional elements (e.g. counters and variables).

The print images can also be created from elements in a database.

| | | Schuetz.00I × | |
|------|-----------------|--|--|
| ß | | $A \blacksquare @ # # A \Box \square @ & C \land ho$ | - + |
| D | New New | Schulz / contactor contacteur / contactor sontactor / contactor 3RT106-2BB44 | |
| ø | 🔁 Open | → 127 | |
| × | B Save | AC-3: RKW 4000 ZNO+ZNC Inst. Tork. No.: 3ZX - 1012 - 0RH11 - 1AA1 醫 泰 醫 奏 醫 奏 | |
| ផ្ទោ | 民 Save as | GF 14048 4/50Hz GF 404 GT 4 GF 50 GF 50 GF 101330 GF 101330 GF 2 GF 101330 GF 2 GF 2 | |
| | Ink consumption | 44.5- 44.5 | |
| | | """""""""""""""""""""""""""""""""""""" | 165 160 165 170 175 180 185 190 195 200 205 210 215 220 225 280 235 > |
| | | HP (LAS) LX (CAS) () 8.5 / 0.8 mm | |
| | | | Fig. 69: Structure of the user interface |

File symbol bar

| Symbol | Meaning | Description |
|-----------|---------------------------|--|
| New New | Create new print image | Opens a new label of the last type which was opened. |
| New • | Create new print image | Opens a new label after the selection of the label type. <u>HP Class</u> > <u>LX Class</u> > <u>MX Class</u> > <u>XR Class</u> > <u>PP Class</u> > |
| Dpen Open | Open existing print image | Opens an existing print image. A preview is displayed. |
| Den • | Open existing print image | Show the last opened print images for re-opening faster. |
| B Save | Save print image | Saves the current print image. Requests a name if none exists. |
| R Save as | Save print image below | Saves the actual print image below the specified name. |

Design menu bar

| Symbol | Meaning | Description |
|------------------|---|--|
| Æ | Text field | Creates a text field to add static text to the print image. |
| (X) | Variables field | Creates a variables field to add a variable to the print image |
| 0 | Date field | Creates a date field to add a date to the print image. |
| 007 | Counter field | Creates a counter field to add a counter to the print image. |
| | Barcode field | Creates a barcode field to add a barcode to the print image. |
| \sim | Logo field | For inserting a graphic in the print image.(bmp, jpeg, png) |
| 티 | Shape field | For inserting a shape like a square in to the print image. |
| <u>G</u> D | Incremental T | he selected field can be moved pixel by pixel. |
| C | Rotate T | he selected field can be rotated in 90° steps. |
| 圃 | Delete D | eletes a field from the label. |
| | Ink consumption D calculator w | etermines the number of prints of the desired label, hich can be print with a full cartridge. |
| (^{tot} | Link to an existing Liparameter set parameter w | inks a label with a saved set of parameters. The set of arameter is send at print start from idesign8+. Doesn't ork for print start on the system. |
| Ø | Zoom out | |
| Æ | Zoom in | |

Print image menu bar

| Symbol | Meaning | Description |
|--------------------------|---|---|
| | Show the print technology | The layout format is valid for one or more print technologies |
| | Clipboard | Copy a print image as a complete graphic in the Windows-clipboard. |
| - + | Number of modules | Define the head modules of a print head. |
| $\leftarrow \rightarrow$ | Undo / Redo | For undo and redo changes during the label creation. |
| | Database navigation | Shows separate data sets of a database to customize the print image creation |
| 袋 | Embedded parameters | Specific parameters can save in the print image. The parameters change in the system when the print image will start on the system and the function "Read only" is selected in the field "Store parameter into label". |
| | Print image width | Fixing of the print width in $mm - a$ limitation of the print width isn't active at a setting of 0. A red line shows the end of the print image. All fields or parts of fields, that are positioned and displayed right of this line, are not be printed. |
| 臣 | Search dataset | |
| EG | Create print images from a database table | All table entries will be used for create a stack of different labels from a master label. |
| 55% | Zoom in and out of the display | The editor area can be resized in 5% steps for optimal editing of the print image. |

Positioning of fields

A field can position by click on and drag with the mouse or by the arrow keys. The positioning takes place in a specific raster. If a precise positioning pixel by pixel is necessary, the raster

can switched off with the button

A multiple selection of fields takes place by drag with the mouse over several fields.



Fig. 70: Positioning of fields

Keyboard function

- Arrow keys
- Ctrl + C
- Ctrl + V
- Tab or Page Up/Page Down
- Enter
- Del

- \rightarrow positioning
- \rightarrow copy to clipboard
- \rightarrow paste from clipboard
- \rightarrow selection of a field
- \rightarrow Edit
- \rightarrow delete a field

Insert a text field

Static text is inserted as text fields in the print image.

Depending on the selected print head type, the editing area varies in size.

Depending on the print head type, various text field dialogs are available for the print image.

Instruction

Please insert a text field as follows:

| Step | Procedure |
|------|--|
| 1 | Click on the ⇒ The text dialog opens |
| 2 | Enter text. |
| | / Text - C × Fonts: Select font type: A4mm Ω Printer ✓ |
| | Action Field DB Field Ok Cancel |
| | Fig. 71: Text dialo |
| 3 | Enter text in the input area - Select the font type at the right side (TrueType o printer fonts). |
| 4 | Following select and set up the font type |
| 5 | To position the text field in the print image, click on the text field and move to required position by pressing and holding the left mouse button |
| | C C O Strawberry jam Image: Addition of the point of the poin |
| | Fig. 72: Text field inserted in a print image |

The printer fonts are used here. These are standard for filling external data. Printer fonts can be created with Font Creator. Printer fonts are limited to the ANSI character set.

Graphic text field

Instruction

Please insert a graphic text field as follows:

| Step | Procedure |
|------|---|
| 1 | Click on the button True Type. ⇒ All fonts types of Windows available now. |
| | Ag m |
| | $\begin{array}{c c c c c c c c c c c c c c c c c c c $ |
| | Strawberry jam |
| | Action Field Ok Cancel |
| | Fig. 73: Graphic text field |
| 2 | Height and width are adjustable with the red handle. ⇒ In a text field with graphic TrueType, the fields are transferred as graphics |
| | |
| | Strawberry jam |
| | |
| | Fig. 74: Change size of the graphic text field |
| | |

Advantages:

• Unicode and special fonts can be used easily without configuring the printer and the field is freely scalable

Disadvantages:

• These fields cannot be filled with variable data from outside. Printer TrueType fonts must be used for this purpose

Printer True Type

Instruction

Please use Printer True Type fonts as follows:

| Step | Procedure |
|------|--|
| 1 | Select Printer TrueType. ⇒ Now all fonts from the Windows operating system are available. ⇒ However, only fonts that have been previously stored on the print system can be used |
| | |
| | Strawberry jam |
| | $\begin{array}{c c c c c c c c c c c c c c c c c c c $ |
| | Strawberry jam |
| | Action Field DB Field Ok Cancel |
| | Fig. 75: Printer True Type |
| 2 | In addition, an anchor can be defined. The anchor describes a fixed point of the field. ⇒ I.e. if the content is changed later, by a variable field – filling, the anchor point remains at the same position. |
| | |
| | Strawberry jam |
| | 12.7 / Text × |
| | Construction Fonts: Size in mm: Select font type: HP I I I I I |
| | Strawberry jam |
| | Field Anchoring × O O O C O O C O O C O O |
| | Action Field DB Field Ok Cancel Ok Cancel |
| | Fig. 76: Printer True Type anchor point |

Advantages:

Fill variable fields with Unicode (for example, Asian character sets). Anchor points for a defined alignment for later external filling.

Variable text field with multi-byte character set for external control

Instruction

Please create a variable text field with multi-byte character set as follows:

| Step | Procedure |
|------|--|
| 1 | Create and save the print image with a text field. ⇒ If x is defined as an action field, always make sure to set 2 for a character that it is a multi-byte string. Or you take a y |
| | |
| | $12.7 \xrightarrow{\text{mm-6000}} I \xrightarrow{\text{Text}} - \square \times$ Fonts: Fon |
| | ~xxxxxxxx/ < |
| | Action Field DB Field Ok Cancel |
| | Fig. 77: Text field Windows True Type |



| Step | Procedure | | |
|------|--------------|---|------|
| | =//////// | | × |
| | | Settings | |
| | 문 도 Status | S04120-x1 192.168.8.253 Clear select a template V Send UTF-8 Open | Save |
| | Print Print | <stx>TZJapanese.00I;11<cr>今日の技術<cr><etx></etx></cr></cr></stx> | ^ |
| | 🖉 🔁 Label Ba | ackup | |
| | 💥 🛱 Settings | N11924-x4 192.168.8.201 | |
| | 段 品 Label gr | oup | > ~ |
| | ₽ B | 10.03.2021 12:55:34 343 send: <5TX>TZJapanese.001;11<(CR>今日の技術 1234 192.168.8.109 | |
| | 8 | | |
| | () | \U09576-x1 | |
| | | KRAMBEER (0.7 | |
| | \bigcirc | | 5 |
| | | | |

Fig. 79: Testing the external control



Insert a date field

Date and time are embedded in the print image as a date field.



The function date field is not available for each system configurations.

Depending on the selected print head type, the editing area varies in size. Date fields are not static, but dynamic fields; their display format is defined by variables. The current date and time are retrieved from the PC clock.

By printing the current date and the current time will be obtained from the system clock. It makes sense to synchronize the system clock with the PC clock. Any combination of variables can be used to configure the display format. Punctuation marks (e.g. full stop, colon, hyphen, space etc.) can be inserted between the individual coding's.

ab.cd.gh is a preset.

Preset variable selection:

| Variable | Meaning | Display |
|----------|-----------------|----------|
| ab-cd-gh | Date | 22-05-95 |
| efgh | Year | 1995 |
| ij:kl:mn | Time | 11:20:35 |
| 000 | Month as string | Jan |
| ррр | Day of the year | 135 |
| q | Weekday | 4 |
| rr | Calendar week | 28 |
| S | Hour as string | k |

Acceptation of the specific variable letters:

| Variable | Meaning |
|----------|-------------------------------------|
| а | Day, tens |
| b | Day, units |
| С | Month, tens |
| d | Month, ones |
| е | Year, thousands |
| f | Year, hundreds |
| g | Year, tens |
| h | Year, ones |
| i | Hour, tens |
| j | Hour, ones |
| k | Minute, tens |
| I | Minute, ones |
| m | Second, tens |
| n | Second, ones |
| 000 | Month, as string |
| ррр | Day of the year |
| q | Weekday |
| rr | Calendar week |
| S* | Hour as character (0=A, 1=B,, 23=Z) |
| t* | Shift code (max. 4 digits) |
| u* | Day of the year, hundreds |
| V* | Day of the year, tens |
| W* | Day of the year, ones |

* not available in all printer types

Further

| Variable | Meaning |
|----------|---|
| A | Day, ones (zero suppression) |
| В | Day as character (1-9=A, 10-19=B, 20-29=C,) |
| С | Month, tens (zero suppression) |
| D | Month as character (1=A, 2=B,, 12=M) |
| G | Year, tens (zero suppression) |
| Н | Year, units as character (0=C, 1=M, 2=E, 3=A, 4=D, 5=J, 6=O, 7=H, 8=N, 9=S) |
| Ι | Hour, tens (zero suppression) |
| К | Minute, tens (zero suppression) |
| L | Minutes, tens as character (0=A, 1=B,, 5=F) |
| Μ | Second, tens (zero suppression) |
| Q | Weekday as character (1=A, 2=B,, 7=G) |

* not available in all printer types

Forward dating, for instance to print a best before date (BBD), can be defined by the offset parameters year, month and day.

Instruction

Please create a date field as follows:

| Step | Procedure | |
|------|--|--|
| 1 | Click on the button in the Edit bar. ⇒ The date dialog opens. | |
| 2 | Enter date / time format. | |
| | Date and Time Fonts: A4mm Ω Format: Offset: ab.cd.gh (i) Years: (0) Months: (0) Days: (0) | Select font type: Printer Printer So OK Cancel 81: Enter date/time format |
| | гіў. | |
| 3 | Enter date/time format (see Table) or take over default se ⇒ You'll get an info list of the specific letters with the info | etting. button. |
| 4 | Click OK button. ⇒ The date field is inserted in the print image | |
| 5 | Select the format from the drop down menu. | |
| 6 | Set a best before date (BBD), if required. Use the arrow keys to select the year. Use the arrow keys to select the month. Use the arrow keys to select the day. | |
| 7 | Select the font from the drop down menu. | |
| | Different fonts are available, depending on the type. Only printer, no TrueType fonts. | e selected printer |
| 8 | Select the date field and, by holding down the left mous required inside the print image | se button, position as |
Insert a counter field

The counters are inserted in the print image through counter fields.

The function is not available for each system configurations.

Counter fields are inserted to print consecutive numbers on labels.

When starting to print, the counter starting value appears in the first print. When reaching the end count, the counter re-starts at the starting value. If the end value is smaller than the starting value, counting is downward.

Example 1:

Starting value: 01, end value: 10, step size: 2, repeats: 3 Print: 01, 01, 01, 03, 03, 03, 05, 05, 05....



All zeroes in front of a number are also printed. The leading zeroes can be deselect by the checkbox.

Example 2:

Starting value: 10, end value: 1, step size 1, repeats: 0 Print: 10, 9, 8, 7....1, 10, 9, 8, 7....

Instruction

Please insert a counter field as follows:

| Step | Procedure | |
|------|---|---------------------------------|
| 1 | Click on the Dutton in the Edit bar. ⇒ The counter field is inserted in the print image ⇒ Further input fields open below the edit bar. | |
| | Counter | × |
| | Fonts: A4mm | Select font type: Printer |
| | Start value: Repeat number: 1 0 End value: Step width: | ☐ Reference Field number: 50 |

End value: Step width: Field number: 50 9999 1 Align left
Special function - External control
None (default)
OK Cancel

Fig. 82: Counter field inserted in the print image

| 2 | Enter the start value (max. 12 digits) |
|---|--|
| 3 | Enter the end value (max. 12 digits). |
| 4 | Enter the step width (max. 3 digits) |
| 5 | Enter the repeat number (max. 3 digits). |
| | |

| Step | Procedure |
|------|---|
| 6 | Select the font from the drop down menu. |
| | Different fonts are available, depending on the selected printer type. |
| 7 | Click the counter field and position by holding down the left mouse button. |

External counter field

You can configure the counter field for control with the external contacts.

Two options are available:

- 1. The counter value counts up or down with the pressure start (standard), but can be set back to the start value via an external contact.
- 2. The counter value is counted up or down with an external contact and can be reset to the start value with a second contact.

| ähler | | | | |
|-------------------------|----------------------------|-------------------|------------|-----------|
| Schriftarten: | _ | | Тур: | |
| A4mm | <u></u> | | Printer | ~ |
| Startwert: | Wiederholanzahl: | | | |
| 1 | 0 | 🔽 Führende Nullen | Referenzf | eld |
| Endwert: | Schrittweite: | | Feldnummer | : 50 |
| 9999 | 1 | Ausrichting Re | | |
| Sonderfunktion - Extern | ne Steuerung | | | |
| keine (standard) | | \sim | | |
| keine (standard) | | | | |
| Hochzählen mit Senso | r und Zurücksetzen mit ext | ernem Kontakt | Ok | Abbrecher |
| Hochzählen und Zurüc | ksetzen mit externem Kon | takt | | |

The counter field can also be configured as a reference field to distribute the counter value in the print image to other fields.

To configure the inputs accordingly, an assignment must be made in the printer settings menu.

Fig. 83: Insert external counter field in print image

| Kopf 1 | System | Optionen | Terminal | | | |
|---------|------------|----------|------------|------------|------------------------------|--------|
| | | | Druck | paramet | er | |
| | | | Druckkop | feinstellu | ungen | |
| | | | Spitting u | und Warr | ming | |
| | | | Eir | ngänge | | |
| Eingang | , 1 | | | | Zähler zurücksetzen | |
| Eingang | j 2 | | | | Druckbildauswahl ZTV | ~ |
| Eingang | j 3 | | | | Tintenfüllstand zurücksetzen | l |
| Eingang | j 4 | | | | Zähler zurücksetzen | |
| Eingang | j 5 | | | | Zähler plus | ~ |
| Eingang | j 6 | | | | Aus | \sim |
| Eingang | , 7 | | | | Aus | \sim |
| Eingang | j 8 | | | | Aus | \sim |

Fig. 84: External counter field

Insert a barcode/ 2D Code



The barcode function is not available for all system configurations.

A barcode is machine-readable writing comprising of parallel lines and gaps of various widths. The data in the barcode can also be displayed in plain text, legible to humans, in a line of plain text directly below the barcode, If the barcode cannot be read, the data can be evaluated manually.

idesign8+ offers a range of barcode and 2D Code types, depending on the selected printer:

| Barcode type | Description | Digits |
|--------------------|---|------------------|
| EAN 8 | Numerical commercial barcode; used worldwide. | 8 |
| EAN 13 | Numerical commercial barcode; used worldwide. | 13 |
| EAN 128 | Numerical commercial logistics code. Variable fields for date, counter and scale as options. | max. 70 |
| Code 128 | Full ASCII barcode; medical-pharmaceutical technology. | max. 70- |
| Code 128 A | Like Code 128 only for character set A (numbers, capital letters, special characters and ASCII control characters.) | max. 70 |
| Code 2 of 5 | Numerical industrial (materials-handling) barcode, always with even number of digits. Also designated 2/5 interleaved, ITF 2/5) | min. 2 max.40 |
| Code 2of 5 check | Like Code 2of 5 only with checksum at the end | min. 2 max.40 |
| DUN 14 / ITF 14 * | Numerical industrial barcode (materials-handling) | 14 |
| DUN 14 / ITF14 1:3 | Like DUN 14 / ITF14 in ration 1:3 | 14 |

| UPC A UPC E | Same as EAN 13, but special 1 st digit code. Is normally set to 0 followed by 11 digit code. The 13th digit is an automatically generated test digit. Used in USA/Canada. | 13 |
|-----------------|--|---------------------|
| Code 39 | Alphanumeric barcode for industry, electronics, pharmaceutical. | max.40 |
| UCC | Same as Code 2 of 5. For trading in the USA. | 14 |
| Data Matrix | A 2D code for the electronics industry and pharmaceutical sector. | max.256 |
| EAN Data Matrix | A 2D code for the electronics industry and pharmaceutical sector. | max.256 |
| QR Code | A 2D-code for Japan and Marketing purposes specially | max.256 |
| GS1 QR Code | Merchandise management, pharmaceutical industry, logistics | max.256 |
| PPN-Code | Pharmacode | max.256 |
| GS1 Databar | Omnidirectional | num. 14 |
| GS1 Databar | Omnidirectional Stacked | num. 14 |
| GS1 Databar | Expanded | num. 74 alph.41 |
| GS1 Databar | Expanded Stacked | max. 74 alph. 41 |

The following options are available:

- Different barcode types
- Barcode width can be changed
- Barcode height can be changed
- GS-1 Builder

Instruction

Please create a barcode as follows:

| Step | Procedure |
|------|---|
| 1 | Click on the button in the Edit bar. ⇒ The barcode dialog opens. |
| | Select a barcode type: Code 128 Code 128 Code 128 A Code 20f5 Code 20f5 check Code 39 DataMatrix ECC200 EAN 128 / GS1 128 EAN 13 |

Fig. 85: Barcode selection

| Step | Procedure | |
|------|---|--------|
| 2 | Enter the content and parameter by the barcode dialog. | |
| | Barcode - EAN 13 Height: 30 Data content: Height: 30 0123456789 < > Human readable text height: Width: 6 A2mm < > DBField Action field Embed: Counter | × 0 |
| | Fig. 86: Barcode Dia | log |
| 3 | Enter the plain text line in the input field. | |
| 4 | Select the size of the plain text line from the drop down menu. Select [none] if the plain text line should not be shown. | |
| 5 | Use the arrow keys to select the height of the barcode. | |
| 6 | Use the arrow keys to select the width of the barcode | |
| 7 | Click the OK button. ⇒ The barcode is inserted in the print image. | |



8 Click on the barcode and position it in the print image whilst holding down the left mouse button.
9 To edit, double-click the barcode.
10 The height and width can set with the red handle.

Insert a variable field

Variables are inserted in the print image by means of variable fields.

The function is not available for all system configurations.

Variable fields are used if a print image contains data (e.g. batch numbers) that change frequently. This can be automated, shortly before the print image is released for printing. The variable field is queried each time before a print image is called. A dialog window appears, requesting the variable value to be entered. A new text may then be entered, or the old text retained. It is possible to enter several variable fields in a text.

Info text is available as an additional function. This info text (e.g. batch numbers) is displayed during subsequent print call-up requests, to prevent incorrect entries or, in the case of several variable fields in a print image, confusion.

Instruction

Please create a variable field as follows:

| Step | Procedure |
|------|--|
| 1 | Click on the Important button in the Edit bar. ⇒ The Variables dialog opens. |
| | Variable × |
| | Fonts: Select font type: A4mm Ω |
| | Default data: Reference Field number: 50 Prompt string: |
| | OK Cancel |
| | Fig. 88: Enter the variable tex |
| 2 | Enter the Variable text in the input field. |
| 3 | Enter the info text in the input field. |
| 4 | Select the font from the drop down menu. |
| | Different fonts are available, depending on the selected printer type. Only printer fonts, no TrueType fonts. |
| 5 | Use the arrow keys to select the font width. |
| 6 | Click the OK button. ⇒ The variable field is inserted in the print image |
| 7 | Click on the Variable field and position whilst holding down the left mouse buttor |
| | |

Insert a logo

Graphics (logos) in the form of BMP, PNG and JPEG files can be inserted into a print image.

| NOTICE If the Ghostscript interpreter (<u>https://www.ghostscript.com/</u>) is installed, PDF files ca also be imported. The file gsdll32.dll, which is part of Ghostscript, has to be copied into the program folder o idesign. | an If |
|--|----------|
|--|----------|

The table below shows the file type and available pixel height for the different types of print equipment.

The number of pixels refers to the full print height of a head.

e.g.: 256 for MX100 at 100mm height. A logo with 64 pixels would be 25mm high.

| cartridge |
|-----------|
| |
| |
| |

Two different types of logo field are possible:

- 1. Fixed means the print image has a fixed size and is only connected to the print image.
- 2. Embedded graphic field means the graphic data will be included and the size is changeable

Instruction

Please create a logo as follows:

| Step | Procedure |
|------|--|
| 1 | Click on the button in the Edit bar. ⇒ The file dialog opens. |
| | All (*.bmp,*.png,*.jpg,*.jpeg) All (*.bmp,*.png,*.jpg,*.jpeg) Bitmaps (*.bmp) PNG (*.png) JPEG (*.jpg,*.jpeg) Fig. 89: Select graphic file format |
| 2 | Select a directory from the drop down menu. |
| 3 | Select the logo in the field. ⇒ A preview of the logo is displayed in the field. ⇒ The bitmap file is shown in the field. |
| 4 | To open a logo, double-click the bitmap file. ⇒ The logo is inserted in the print image. |
| | |
| | o 10 20 30 40 50 60 70 80 90 100 110 |
| | $(\texttt{HP}_{\texttt{exss}}) (\texttt{L}_{\texttt{exss}}) (\texttt{f} \rightarrow \texttt{0.0700 mm}) (\texttt{f} = \texttt{f}_{\texttt{c}} (\texttt{f} \triangleleft \texttt{f}) (\texttt{f} \models \texttt{f}_{\texttt{c}} (\texttt{f}) (\texttt{f} \models \texttt{f}) (\texttt{f} \models \texttt{f}_{\texttt{c}} (\texttt{f}) (\texttt{f} \models \texttt{f}) (\texttt{f}) (\texttt{f} \models \texttt{f}) (\texttt{f} \models \texttt{f}) (\texttt{f}) (\texttt{f} \models \texttt{f}) (\texttt{f}) ($ |
| | Fig. 90: Logo inserted in the print image |
| 5 | Click on the logo and position in the print image whilst holding down the left mouse button. |
| 6 | Double-click the logo to edit it. |
| 7 | Click on Edit to edit the logo in MS Paint. |



It can specify whether the logo has a fixed size or whether it should make adjustable. Therefore, a height in mm can be entered (aspect ratio remains) or the height can set with the red handle.



The graphic data with adjustable logo size will be saved with the right format in the print image file. The logo files of a print image with a fixed logo size will be transfer to the system.

| A | | çı C | | 659 | 6 | _ | + |
|--|---------------------------------------|-------------------|---|----------|---------|-----|-------|
| | | | | ~ | | | |
| | File name: C:\Users\Public\idesign | \logos\schuetz.bm | qı | × | | | |
| | Size and aspect ratio | | Height in mm: 21,2 $\langle \rangle$ | | 100 | | 110 |
| $\overset{\triangleleft}{\Vdash} \overset{\scriptstyle (}{\Vdash} \overset{\scriptstyle (}{\vdash} \overset{\scriptstyle (}{\vdash} \overset{\scriptstyle (}{\downarrow} \overset{\scriptstyle (}{\vdash} \overset{\scriptstyle (}{\downarrow} \overset{\scriptstyle (}{\scriptstyle}) \overset{\scriptstyle (}{\scriptstyle} \overset{\scriptstyle (}{\scriptstyle}) \overset{\scriptstyle (}{\scriptstyle})\overset{\scriptstyle (}{\scriptstyle})\scriptstyle $ | • Changeable | | | | 铰 | Ê | > |
| | 1:1 Ed | lit | ОК | Cancel | | | |
| | | | | | | | |
| | | | | Fig. 92: | Settind | the | size |

The original size can be restored with 1:1 button.



The file name is restricted to **48 characters maximum**, excluding special characters.

Logo from database table

Select a field Name

If a database table connected (see chapter Database page 164) follow dialog appear.



Fig. 93: Database graphic field

Select field name: Number Code OK Cancel

Fig. 94: Field selection for graphic field

The defined database field must contain the name of the graphic file. Without a path the local logo path will be taken. If a file does not exist or the field is empty, no graphic will be printed.

Insert an action field

Action fields are fields containing variable data. Data is written to these fields externally (manually at the printer or by PC) with each print call.



The function action field is not available for all system configurations.

The ID number is incremented from 1 by the program automatically, but can be changed.



The ID number must always be bigger than 0.

Action fields are implemented in text fields and barcodes.

To convert a static text field to an action field, the placeholder, e.g. "x" must be enclosed by the tilde character "~" for each variable character (example: Batch: ~xxx~).



Action fields are only available for the printer types MaxiLine, CompactLine2.5, iJET, X-Series.

The letter variables are pre-allocated. The functions of the variables are shown in the table below.

| Variable | Function |
|----------|------------------------------|
| a w; A Q | like clock time function |
| x | data transfer from interface |
| z | counter |
| Z* | Counter as character |
| | |

* not in all print system types available

Action fields can be interlinked. The use of action fields is explained by some examples below.

Example 1:

A print image contains a text field and a barcode. Both fields receive the same ID number, if a 1 is entered in brackets in front of the xxx... when specifying the second action field, e.g. $\sim(1)xxxxxxxx\sim$, the same data is obtained when calling the print function.

Instruction

Please create a text field with action field as follows

| Step | Procedure |
|------|--|
| 1 | Click on the button in the Edit bar. ⇒ The text dialog window opens. |
| | Text × Fonts: Select font type: A2mmB Ω Article-No: ~xxxxxx~ Printer Article-No: ~xxxxxx~ Find Embed: Counter Counter Counter Fig. 95: Enter text |
| 2 | Enter the static text Article no.: in the text field. |
| 3 | Enter the variable text ~xxxx~ in the text field. |
| 4 | Click on the Action field button. |
| | Action fields × counter Start value: End value: Step width: Repeat number: 1 9999 1 0 Offsets: Years: Months: Days: date/clock 0 > 0 > |
| | Preview line: Info line: variable ? |
| | logo Logo action field |
| | Action field number: 1 < > OK Cancel |
| | Fig. 96: Action field |
| 5 | Use the arrow keys to select ID number 1 |
| 6 | Click the OK button and close the text field with OK . |
| 7 | Click on the button in the Edit bar to create a barcode. ⇒ The barcode dialog opens. |

| Step | Procedure |
|------|--|
| | Barcode -Code 2of5 × Data content: Height: 300 0123456789~xxx4~ < > Human readable text height: Width: 6 A2mm ✓ DBField Action field Embed: Counter |
| | Fig. 97: Enter the barcode |
| 8 | Enter the barcode text ~xxx~ in the input field |
| 9 | |
| | Action fields X counter Start value: End value: Step width: Repeat number: 0 9999 1 0 Offsets: Years: Months: Days: |
| | Variable Preview line: Info line: |
| | logo Logo action field Action field number: 1 Fig. 98: Action field |
| 10 | Use the arrow keys to select ID number 2 . |
| 11 | Press OK to close the action field and barcode window. |
| | A₀ Image: Control of the second |
| | 0 10 20 30 40 50 60 70 80 50 100 110 < |
| | |
| | Fig. 99: Action fields in the print image |

The text field and the barcode are now two action fields. The data in the text field are also written to the plain text line of the barcode. The Article no. and the barcode receive the same data.

Example 2: Linking of action fields

A print image contains of three text fields and a GS1 Datamatrix code. The entered contents of the text fields should be filled into the Datamatrix at print call.



| text field ID1: | ART: ~xxxxxxxxxxxxxxx | default line: | 3400933698522 | |
|------------------|--|--------------------------------|-----------------------------------|---|
| text field ID2: | LOT: ~xxxxxx~ | default line: | 012345 | |
| text field ID3: | EXP: ~xxxxxxx~ | default line: | 02/2028 | |
| Datamatrix code: | (01)0~ <mark>(1)</mark> xxxxxxxxxxxxxx | (10)~ <mark>(2)</mark> xxxxxx- | ~(17)~ <mark>(3)</mark> 6xx1xx~00 |) |

In the text field, the date is to be printed in 7-digit format TT.MM.JJ In the barcode, the date is to be printed in 4-digit format in YYMMDD format. (GS1 standard)

- (1) (2) (3) Indexed to the field with ID1
- 6, 1 Specifies the position within the source field information. The number of digits to be copied.

With the help of the GS 1 generator you can check or complete the input.

| 351 Content | ./^^^(5)0XX1XX | | | |
|-----------------------|-----------------|--------------------|--|--|
| DataTag | Action/DB Field | Field-Content | | |
| (01) GTIN | ✓ | 0~(1)xxxxxxxxxxxxx | | |
| (10) BATCH/LOT | ✓ | ~(2)xxxxxx~ | | |
| (17) USE BY OR EXPIRY | \sim | ~(3)6xx1xx~00 | | |
| (NODAT) No Data | ✓ □ | | | |
| (NODAT) No Data | × 🗆 👘 | | | |

Fig. 101: GS1 Generator

Reference fields

Variable fields, date fields and counter fields can be so designed that they are available in the label layout, but will not print.

It makes sense if you want to revert to information, like a date in a barcode, but this date would not print.



Create reference field

Activate the check in the corresponding dialogs in front of the reference.

The corresponding field will be marked grey in the layout and will not print.

Below the reference field is stated a field number. The field can link with this number. The field number will be count from 50 up automatically. The field will be inserted in an action field link with this number.

i.e.: ~(50)xxxxxx~

| New1 | × | | | | | |
|----------------|---------|-------------|------|--------------|-------------------|-------|
| A _t | 01 | | 5 Ŵ | <u>6</u> 9 C | | |
| Pro | od[| Date | : 09 | .04.2 | 21 ^{09.} | 04.21 |
| 10 - | | | | | | |
| 0 | 10 | 20 | 30 | 40 | 50 | 60 |
| | CLASS ← | → 0,0 / 0,0 | mm | | | |

Fig. 103: Reference field preview

Store parameter into label – Embedded parameters

| Embedded Parameters | | × |
|-----------------------|-------|--------|
| Print delay in mm | 120 < | > ^ |
| Speed in m/min | 0,0 < | > |
| Intensity in dpi | 0 < | > |
| Zoom in % | 0 < | > |
| Print direction | R → L | \sim |
| Nozzle row | A ~ B | \sim |
| Upside down | No | \sim |
| Repeat distance in mm | 0 < | > |
| <u> </u> | | ~ |
| | ОК | Cancel |

Fig. 104: Embedded parameters

Click on the button "Embedded parameters" to assign specific parameter to a print image. First you must set in the menu Function \rightarrow Submenu Settings \rightarrow System \rightarrow Tab System settings the function "Store Parameter into label" to "Read only". See also Store parameter into label, page 50.

The parameters, which are activate and entered, are saved in the print image and change the settings in the system when the print image will start again.

Save print image

Depending on the connected printer type, idesign8+ saves the print images in different file formats.

The table below shows which file formats are available to the specific printer types when opening and closing print images.

| Printer type | File format |
|------------------------------------|-------------------------|
| HP/LX MX Trident PP108 Seiko | *.00I *.00J *.00P |
| XR-Xaar | *.00R |
| Compactline 2.5 | *.00H |
| Maxiline (Trident) | *.00M |

Instruction

Please save a print image as follows:

| Step | Procedure | | | |
|------|-------------------|---------|---------|----------------------|
| 1 | Click on the bar. | Save or | Save as | button in the Symbol |

Open print image

Instruction

Please open a print image as follows:

| 1 | Chan Open |
|-------------------------------|-----------------------------------|
| Click on the ⇨ The file di | button in the Symbol bar. |
| 2 Select a direct | tory from the drop down menu. |
| 3 Select and m | ark the print image in the field. |

Ink consumption calculator

Instruction

Please determine the number of prints per ink cartridge as follows:

| Step | Procedure |
|------|--|
| 1 | Click on the Ink consumption button in the Symbol bar. ⇒ The ink consumption calculator opens. |
| | Ink consumption X |
| | Zoom in %Resolution in dpiUsed nozzle rowsType $100 < \rightarrow$ $300 < \rightarrow$ $\bigcirc A ~ B, A, B$ $\bigcirc HP ~ \bigcirc LX$ $\bigcirc A + B$ $\bigcirc A + B$ $\bigcirc BEABL$ The current message may be printed approximately 156.000 times.Price per cartridgePrice for 1.000 prints $25 00 \in$ $0,16 \in$ Close |
| | Fig. 105: Ink consumption calculator |
| 2 | Set the desired parameters (zoom, resolution, nozzle row etc.) in the ink consumption calculator. |

| Step | Procedure |
|------|--|
| 3 | The text below (Fig. 104) shows how many labels can be print with one or more full cartridges. |



The number of prints per cartridge is an approximate value. The exact value can be seen after an optimal print image selection.

Label from database

With idesign8+ it's possible to create a label from a database automatically. Thereby the database will be complete systematically and every data set will be filled in a label and saved separately. The created labels can be send to a print system.

To use this function:

Open a database and configure it that you can use it in idesign8+. See also page 164 "Database")

Instruction

Please create or open a label with the database field as follows:

| | Procedure | |
|---|--|--|
| 1 | Create or open a printed image with one or more database fields. These can be text, logo or barcode fields. | |
| 2 | Click on Label from database | |
| | Select a field for the label name: | |
| | OK Cancel | |
| 3 | Select a database field for the label name in the following dialog and c your choice with OK. ⇒ A subdirectory with the name of the source print image is automa created in the current print image directory. The automatically gen print images are stored in this directory | |
| | A subdirectory with the name of the source print image is automatically created in the current print image directory. The automatically generated print images are stored in this directory | |
| | A subdirectory with the name of the source print image is automatically created in the current print image directory. The automatically generated print images are stored in this directory Create label from database | |
| | A subdirectory with the name of the source print image is automatically created in the current print image directory. The automatically generated print images are stored in this directory Create label from database Create label from database | |

The labels will be saved in a subfolder in the standard idesign8+ label index.

The name of the subfolder is identic with the name of the origin label.

7. Tools

Terminal



The terminal in the menu **Tools** can contact any other system (scanner, camera...) and test the communication.

For this a connection is necessary. The connection can be Ethernet (TCP/IP), USB, or EIA232.

Configuration TCP/IP connection

Instruction

Please configure a TCP/IP connection as follows:

| Step | Procedure |
|------|---|
| 1 | Select below port type TCP/IP. |
| 2 | Enter the IP address by which you want to connect |
| 3 | Enter the port with which you want to connect. |
| 4 | Click on Connect . |

Configuration a USB connection

Instruction

Please configure a USB connection as follows:

| Step | Procedure |
|------|---|
| 1 | Select USB below port type. |
| 2 | Select the desired system below USB. |
| | If the desired system isn't in the list, click on $\mathcal O$ or refresh the list. |
| 3 | Click on Connect . |

Configuration a RS232 connection

Instruction

Please configure a RS232 connection as follows:

| Step | Procedure |
|------|---|
| 1 | Select the port type RS232 . |
| 2 | Select the desired serial port below COM. |
| | If the desired system isn't in the list, click on ${\cal O}$ or refresh the list. |
| 3 | Select the baud rate, data bits, parity and the number of stop bits. |
| 4 | Click on Connect. |

Connection status

Besides the **Connect** button is a LED, which displays the status of the connection with 3 colors.

| Color | Meaning |
|--------|----------------------|
| Grey | No connection |
| Yellow | Link connection |
| Green | Establish connection |

Server start

For an analysis of control commands from external host systems such as customer PLCs, a TCP server can be started locally by specifying the target address (local PC) and the target port. Depending on the LAN port to which the host is connected, an address must be selected here. When the server is started, the following information is displayed. The host system must send to one of these addresses in order to display the control in the Terminal Receive window. In the send window, a response can also be simulated.

| 0 | Possible client targ 169.254.20.178 192.168.56.1 192.168.8.146 Port: 10200 | et addresses: | |
|---|--|------------------|---------------|
| | | | Ok |
| | | Fig. 108: Select | target addres |

Firmware

| ≡ | | | | | | | | | - | | × |
|------------|--------|------------------------------|--|---|--------------------------------|---|-------------------------------|-----|---------|-----|-----|
| | | | Firmware | | | | | | | | |
| ₽ ₽ | | | Download firmware online Printer Type: integra One | ~ | Start | | | | | | |
| Ø X | 2 | Terminal | IISB stick firmware unload | | | | | | | | |
| 钧 | 0 | Edit ink tables | Printer Type: integra One | ~ | Firmware: stickv4026m_x1jet | ~ | USB - Stick D: (KRAMBEER2) | ¥ | Start | | |
| P | | Firmware USB Stick Backup | 60 and that | | | | | | | | |
| | 6 | Font Creator | Printer Type: | ~ | USB - Stick: | ~ | Start | | | | |
| <u> </u> | ₽ Ø | Signal Analysis Remote | | | | | | | | | |
| | | | | | | | | | | | |
| \bigcirc | | | | | | | | Fig | 109. Ei | rmw | sre |



To activate the "Firmware" menu, the service password 421635 must be entered.

Enter service password

| Step | Procedure | |
|------|---|---|
| 1 | Press the key combinationn Strg + Alt + | + S |
| | | Service password: Ok Abbrechen Fig. 110: Enter service password |
| 2 | Service Password = 421635 | |
| 3 | After that the menu item | is activated. |

Create a USB – Update firmware Stick

Instruction

Please proceed a software update with USB-stick as follows:

| Step | Procedure | | |
|------|---|--|--|
| 1 | Select the desired printer type. | | |
| | USB stick firmware upload Printer Type: Firmware: USB - Stick: integra One v stickv4026m_x1jet D: (KRAMBEER2) v Start | | |
| | Fig. 111: USB Stick firmware update | | |
| 2 | Then select the desired version of the firmware to be installed under Firmware. | | |
| 3 | Insert a USB stick into a free port of the computer. | | |
| 4 | The drive of the USB stick is automatically added to the corresponding selection box | | |
| 5 | The USB stick selection box shows all removable media available in the system, select your USB stick here. | | |
| 6 | Click on Start to start the programming operation | | |
| 7 | It appears a window that informed about the programming level | | |
| 8 | The window closed after a successfully copy process | | |

USB Firmware Update Procedure

iJET / X4JET

Instruction

Please update the firmware for iJET / X4JET as follows:

| Step | Procedure |
|------|---|
| 1 | Switch the system on and hold the iLOGIK pressed if the start logo appears. |
| 2 | On the display is shown: Prg: 0 PV1.0xx \rightarrow actual program version GA.: 0GV0.032 \rightarrow actual Gate Array version Stick?. |
| 3 | Insert the USB-stick with the new version. |
| 4 | On the display is shown: Prg: 0 PV1.0xx → new program version GA.: 0GV0.032 → new Gate Array version Copy to SD? |
| 5 | With a short press on the iLOGIK button, the new version is copied to the internal SD-card and the system restarts. |

XB4JET / XB8JET USB stick Update

Instruction

Please update the firmware for XB4JET / XB8JET as follows:

| Step | Procedure |
|------|---|
| 1 | Switch the system on and hold the start button beside the power switch pressed. |
| 2 | Wait until the status LED flashes red/green. |
| 3 | Insert the USB-stick with the new version. |
| 4 | The sensor LED flashes yellow/red if the program is load |
| 5 | With a short press on the OK button the system restarts. |
| 6 | The status and sensor LED flashes red after ca. 15 sec. At the same time, you can hear the relays clicking. Now press the start button again. |
| 7 | After ca. 15 seconds the restart is finished (again clicking of the relays) and the USB-stick can be removed. |

X2JET / X4JET Plus USB stick Update

Instruction

Please update the firmware for X2JET / X4JET plus as follows:

| Step | Procedure |
|------|---|
| 1 | Switch the system on and hold the appears. (Paper clip or similar is required) |
| 2 | On the display is shown: Prg: 0 PV1.0xx \rightarrow actual program version GA.: 0GV0.032 \rightarrow actual Gate Array version Stick?. |
| 3 | Insert the USB-stick with the new version. |
| 4 | On the display is shown: Prg: 0 PV1.0xx → new program version GA.: 0GV0.032 → new Gate Array version Copy to SD? |
| 5 | With a short press on the OK button, the new version is copied to the internal SD-card and the system restarts. |
| 6 | On the display is shown: Copy HMI Data from Stick?. |
| 7 | Press the OK-button to confirm this. The data for the user interface will be updated. Concluding the system restarts. |

X1JET USB stick Update

Instruction

Please update the firmware for X1JET as follows:

| Step | Procedure |
|------|---|
| 1 | Connect the X1JET to the power supply, press the [Ink]-BUTTON and hold them pressed until the sensor LED flashes green/red. |
| 2 | Insert the USB-stick into the USB socket on the top side of the system. |
| 3 | The sensor LED flashes yellow/red if the program is load. |
| 4 | Confirm it by pressing the start-button and wait until the system restarts. |
| 5 | Now remove the USB-stick. |

USB Stick Backup



Fig. 112: USB Stick Backup window

It's possible to save the created labels on a USB stick in the submenu **USB Stick Backup** and to provide print systems with these data.

In the saved data include:

- Label for the controller
- The fonts of the labels
- The pictures of the labels

Instruction

Please use the USB stick backup as follows:

| Step | Procedure |
|------|--|
| 1 | Open idesign8+ \rightarrow Tools \rightarrow USB Stick Backup. |
| 2 | Click on folder and browse to your local label index. |
| 3 | The list of the selected index is shown in the left window. |

| Step | Procedure |
|------|---|
| 4 | Select the letter of the drive at the right side, which belongs to your USB stick |
| 5 | If there are label on the stick in the right folder structure already, these will be shown in the right window. |

Instruction

Please save data on a USB stick as follows:

| Step | Procedure |
|------|---|
| 1 | Select the desired labels in the left window, which should be saved. |
| 2 | Click on Send to save the desired label on the USB stick or Click on Send all to save the desired label on the USB stick. |

Instruction

Please save data from a USB stick on a control system as follows:

| Step | Procedure |
|------|---|
| 1 | Select the desired labels in the left window, which should be saved. |
| 2 | Click on Receive to save the selected label in the local index, <i>or</i> Click on Receive all to save all labels in the local index. |

Font Creator

The font creator is used to generate Markoprint print fonts from Windows TrueType fonts. The delivered standard character set of the print system can add with new sizes and fonts, like i.e. Cyrillic.

Instruction

Please use the font creator as follows:

| Step | Procedure | |
|------|--|---|
| 1 | To start the font | creator, click in the menu Tools on the submenu Font Creator. |
| | Service of the service of t | Font Creator Printer type Printer type Printer type Printer type Printer type NX X1JET/X4JET/X4JET/X4JET (XR-Class) NX X1JET/X4JET (XR-Class) HP CompactLine 2.5 NX MaxiLine/MultiLineMX s |

Fig. 113: Font Creator

| 2 | Select the required printer type. Important is the used print technology, i.e. Trident – MX. |
|---|--|
| 3 | Click on the button Next. |
| 4 | Select the font name and height in mm. It can also select an international character set. |

| Font Creator | |
|---|--------------------------|
| Font parameter Font name: Arial Charset: Westlich Height in mm: 4,0 | Bold Invers |
| Back Next | |
| | Fig. 114: Font parameter |

- 5
- Click on the button Next.

| Step | Procedure |
|------|---|
| 6 | Now you have the possibility to select, whether a single font or a font package with all sizes should create for the selected printer type. |
| | Font Creator |
| | Create single font or package Single font Font package (1mm, 1,5mm 12mm) |
| | Back Next Fig. 115: Font Creator package |
| 7 | Click on the button Next. |

Single font

With the option single font, you have the possibility to edit the character set with Paint.

Instruction

Please use the single font as follows:

| Step | Procedure |
|------|--|
| 1 | To use the single font, click the button Edit . |
| | Font Creator Font Creator Forter to edit the praphic of the characterset press the "Edit" button. Forter to edit the graphic of the characterset press the "Edit" button. Forter State Ansist Forter Forter For |
| | Fig. 116: Edit with Paint |

2

Click on the button **Next** to save the character set.

| | 58 Speichern unter | | | | | | × |
|--|--|------------------------|--|---|--|---|--------|
| | 🔶 🔶 🗠 🕇 🦲 🗷 | Dieser PC 👻 | - Lokaler Datenträger (C:) 🝷 Benutzer 👻 Öff | entlich 🕶 idesign 👻 for | nts - C | "fonts" durchsuchen | Q |
| | Organisieren 👻 Ner | uer Ordner | | | | 888. | - 0 |
| | Installationen ideign repos webinar ideign8+ Interface uert.anguage Dieser PC 30-Objekte Bilder Desktop Doktope D | ₹ ∧ Ŧ Ŧ | Name Import 3245234523452345234523452345234523452345 | Änderungsdatum 19.11.2020 15:25 10.12.2020 15:25 10.12.2020 16:16 14.02.2018 08:14 14.02.2018 07:44 14.02.2018 08:14 14.02.2018 07:44 14.02.2018 07:44 14.02.2018 07:44 16.02 07:1605 | ▼ Typ F13-Datei | Große 618 KB 262 KB 41 KB 42 KB 20 KB 113 KB 113 KB 117 KB 69 KB 158 KB 158 KB 164 KB 225 KB | |
| | Dateiŋame: A Dateiŋame: A Dateiţyp: Jet Ordner ausblenden | mm.ft3 /X4Jet HP (* | | | | Speicherm Abbr | rechem |



Use a name to arise from the font height to guarantee an assignment for the print image creation.

Font package

Specify a name for a new font package by enter a name code for the first segment. A letter is therefore enough. The second segment is providing with the height information automatically by the creation. Following there is the possibility for an addition like, i.e. B for bold.

| Define name of package | 2 | | |
|--------------------------|-------|-----|--|
| Font name syntax: | | | |
| | mm | ft3 | |
| Aspec | | | |
| C:\Users\Public\idesign\ | fonts | | |
| Select folder | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

Fig. 118: Define a name for a font package

The standard font folder is offered as target directory.



The fonts can also save in other folder, but are available for the print image creation.

Create and save

Specify a name for the new font package by enter a name code for the first segment. A letter is therefore enough. The second segment is providing with the height information automatically by the creation. Following there is the possibility for an addition like, i.e. B for bold.

| Create and save | | |
|--------------------|---------|-------|
| Create font: Aspec | 7mm.ft3 | |
| | | |
| | | Cance |
| | | |
| | | |
| | | |
| | | |
| | | |



The new created fonts can used for the print image creation now.



It isn't necessary to copy the new fonts in the print system manually. The new fonts will send automatically with the print start of idesign8+ or by sending the print image in the print system.

Signal Analysis

This function is used to open and view configurations and signal analyses that have been visualized in the "Inputs and Outputs" submenu and to add comments or save them. More information regarding the signals is to find at site 34 and follows.



Fig. 120: Signal Analysis – Show configuration and parameters



Fig. 121: Signal Analysis - Show and analyze stored signal flow

idesign8+ Remote

This function serves exclusively as extended data transfer of ERP or Middleware technology, i.e. SAP, Magix IPX or other. Actions, like print starts on specified systems or label updates on internal print storages can be done with the function.

Performance features

idesign8+ Remote is implemented as a Windows service. This ensures that control processes can send print start commands at any time, also if the idesign8+ software is not activated.

idesign8+ Remote offers the possibility to send print jobs (print starts) to any systems. Requirements are that the relevant systems are registered in idesign8+ (see also chapter "Include systems ").

idesign8+ Remote offers multiple configurable interfaces to receive print jobs.

- Filedrop (List monitoring): idesign8+ Remote monitored a specific folder. If a file is created or copied in this folder, idesign8+ Remote will import the file and realize the deposited print jobs. The file will be copied in a filing folder after processing.
- HTTP Rest interface: Print jobs can transfer via a http GET request. An answer data set can send as HTML or XML and indicates whether the print job was performed successfully.
- TCP / IP interface: Print jobs can transfer via a TCP interface. The interface is conducted as TCP Client. So a destination address and an access port must set. If the service is not accessible at the system, idesign8+ Remote try to connect once per second until the service is again available. A connection is maintained as long as either the interface is turned off, idesign8+ Remote is stopped or the service on the PC is stopped. A data set, which is send via the TCP / IP interface, must end with a simple word-wrap. This is the unprintable ASCII sign dez.13 <CR>.

Activate idesign8+ Remote

Instruction

Please activate idesign8+ Remote as follows:

| Step | Procedure |
|------|---|
| 1 | Start idesign8+. |
| 2 | Click in the menu Tools on the submenu idesign8+ Remote . |
| 3 | Click the button Start in the tab General to start the service. |

| General Filedrop T | est HTTP-Server Tes | st | | |
|--------------------|---------------------|------------------------|-----------|--|
| Windows Service | Stop 😵 | IDesign Remote Monitor | v2.0.12.3 | |
| | | | | |
| NOTIFY | Change | | | |
| | | | | |
| | | | | |
| Event | Severity | Timestamp | Message | |
| Event | Severity | Timestamp | Message | |
| Event | Severity | Timestamp | Message | |
| Event | Severity | Timestamp | Message | |
| Event | Severity | Timestamp | Message | |
| Event | Severity | Timestamp | Message | |
| Event | Severity | Timestamp | Message | |
| Event | Severity | Timestamp | Message | |
| Event | Severity | Timestamp | Message | |

Fig. 122: idesign8+ Remote screen





Fig. 123: idesign8+ try icon

Input format Filedrop (File monitoring)

The Filedrop system monitors a transfer directory. Once there appears a transfer file with valid data, a print start with the data is realized. The processed data of the transfer file are copied to a backup directory.

Transfer directory and backup directory can specify in the setting menu. It can also specify network directories.

Create a Filedrop service

Click on the "New Service" button and proceed as follows:

| Create a new : | ervice | | | | | | | | | | | | × | |
|------------------|----------------------------|-----------------|-------------------|--------|---|--------|-------|----------|-------|--------|---------|--------|----|------|
| | | | | _ | | | | | | | | | | |
| Name: | | File dr | op test | | | | | | | | | | | |
| Type: | | Filedro | p (Directory obse | rver) | | ~ | | | | | | | | |
| Create a | new service | | | | | | | | | | | | | × |
| | | | | | | | | | | | | | | |
| Obser | ved directo | rv: | | | | | | | | | | | | |
| C:\Us | ers\Public | iDesign\fi | ledrop | | | | | | | | | | | |
| Backu C:\Us | p Directory ers\Public\ | : iDesian\fi | ledrop history | | | | | | | | | | | |
| | | _ | | | | | | | | | | | | |
| Lin | e separate | d input da | ita | | | | | | | | | | | |
| Cre | ate a new s | ervice | | | | | | | | | | | | × |
| | | | | | | | | | | | | | | |
| | Decoder Occoder | 1 | | | | | | | | | | | | |
| | | lar expres | sion | | | | | | | | | | | |
| | OXML | | | | | | | | | | | | | |
| | Онттр | path | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | Action: | | | | | | | | | | | | | |
| Create a new | Iranster | and Start | Label V | | | | | | | | | | × | л |
| Field ser | arator: | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | cel |
| | | | | | | | | | | | | | + | 1 |
| Name: PRINTER | २ | | Index: | | | Add A | ction | R | ules | | | | x | |
| Name: | | | Indec | | | | | | | _ | | | | |
| LABELN | AME | | 1 | | | Add A | ction | R | ules | | | | Х | |
| Name: | | | Indec | | | | | | | | | | _ | |
| CHARGE | | | 2 | | | Add Ai | ction | R | lules | | | | X | |
| Cre | ate a new s | ervice | | | | | | | | | | | | × |
| | Group Nam | e: | | | | | | | | | | | | |
| | abelgroup: | 1 | | | | | | | | | | | | |
| | | | | | | | | | | | | | | + |
| | Printer: | - | Label | : | - | | | Print he | ead: | | | | | |
| | SPRINTER | | ~ SLAB | ELNAME | | ~ | | Head1 | 1 ~ | | Default | | | X |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| , | | | | | | | | | < Pre | evious | | Finish | Ca | ncel |

Fig. 124: Create a Filedrop sample

Test Filedrop

Instruction

Please activate the Filedrop service as follows:

| Step | Procedure |
|------|---|
| 1 | After the service is finished, it must be activated manually. Simply check the box shown in the figure below. |

| General 1345 | | | | | | |
|---|---|---------------------|-------------|-------------------|-----------|------|
| Basic Settings | Decoders | | | | | |
| Filedrop Observed dii C:\Users\Pu Backup Dire C:\Users\Pu | rectory: blickidesign/filedrop ctory: blickidesign/filedrop_hist | ory iDe: | sign | Edit Delete | :] | |
| Active | | | ? Set sen | vice to active? | | |
| Event | Severity | Timestamp | | | | |
| | NOTIFY | 29.06.2018 13:05:3 | | | arting up | |
| | NOTIFY | 29.06.2018 13:05:3 | OK | Cancel | .0.22.0) | |
| | NOTIFY | 29.06.2018 13:05:39 | Exception | s enabled: on | | |
| | NOTIFY | 29.06.2018 13:05:39 | Service 13 | 345 is not active | | |
| | NOTIFY | 29.06.2018 13:05:39 | start syste | em server | | |
| | NOTIFY | 29.06.2018 13:05:39 | System s | erver running aga | ain | |
| | WARNING | 29.06.2018 13:28:20 | Client nev | v | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| Design service s | inned | | | | | Hide |
| eargin activice a | topped | | | | | Thuc |

Create print image

Instruction

Please create a print image in the Filedrop system as follows:

| Step | Procedure |
|------|--|
| 1 | To test the file drop system, a print image must be created in which there is an action field with a specific placeholder. |
| 2 | The name of the field is defined in the file drop settings menu and entered here. |
| Step | Procedure | |
|------|-----------|--|
| | | 1122.001 × Image: Select for type: Image: Select for type: |
| | | Fig. 126: Defining placeholders in the print imag |

Create transfer file

The transfer file is a simple text file and can have any name. The contents of this file are as follows:

X1 LX Line1;FiledropTest.00I;ABC123

| X1 LX Line1 | → Printer name |
|------------------|---|
| FiledropTest.00I | → Print image name |
| ABC123 | \rightarrow Handover value (batch number) |

The individual fields are separated by semicolons.

The transfer file can also contain several lines with commands for several printers and header combinations. Alternative formats, e.g. XML or strings, which are to be processed with regular expressions are described separately. Please contact our technical support.

Characteristics for field 2 (Print image name): The print image names must insert with the associated file extension (i.e. .001). If no complete Windows path (starting with C: i.e. C:\Users\Public\idesign8+\Label\testlabel.001) is entered, idesign8+ Remote will search in the set standard print image path for the specified print image

Filedrop testing

Now copy the transfer file into the transfer directory. This should disappear as soon as it appears, as it is process

This should disappear as soon as it appears, as it is processed immediately and moved to the backup folder.

The following entry appears in the log table:

| SUCCESS | NOTIFY | 26.05.2016 15:24:54 | iDesign System server running again |
|--------------|--------|---------------------|--|
| DEVICE_FOUND | NOTIFY | 26.05.2016 15:24:54 | X1 LX Line1 |
| PRINTSTART | NOTIFY | 26.05.2016 15:26:22 | Print start successfull. label FiledropTest.00I to device X1 LX Line1 on head 1 $$ |

The result can be checked directly using the idesign8+ status window.

Example input format Filedrop

N08766-x4,testlabel.00I,1,354235345.10.04.2017 – This is a print start command for the system named N08766-x4. A file test.00I for print head 1 is started in: C:\Users\Public\idesign8+\Label (Standard print image path).

| | st | | |
|----------------------------|---------------------|---------------------|---|
| Basic Settings Deco | oders | | |
| 5 000 | | | Edit |
| Filedrop | | | Edit |
| Observed director | v | | Delete |
| C:\LIsers\Public\iF |)esign\filedron | | |
| 0.1000101 0011012 | - congristion op | | |
| Backup Directory: | | | |
| C:\Users\Public\iF |)esign\filedron his | tory | |
| 0.1000101 0011012 | reargnine arop_na | lony | |
| | | | |
| | | | |
| Active | | | |
| Event | Severity | Timestamp | Message |
| STOPPED | NOTIFY | 27.05.2016 11:14:01 | iDesign Remote restarting |
| SUCCESS | NOTIFY | 27.05.2016 11:14:01 | Service File drop test is not active |
| SUCCESS | NOTIFY | 27.05.2016 11:14:01 | iDesign System server running again |
| DEVICE_FOUND | NOTIFY | 27.05.2016 11:14:01 | X1 LX Line1 |
| STOPPED | NOTIFY | 27.05.2016 11:16:03 | iDesign Remote restarting |
| SUCCESS | NOTIFY | 27.05.2016 11:16:03 | Service File drop test started |
| | NOTIFY | 27.05.2016 11:16:03 | iDesign System server running again |
| SULLESS | NOTIFY | 27.05.2016 11:16:03 | X1 LX Line1 |
| DEVICE_FOUND | NOTIFY | 27.05.2016 11:16:16 | Print start successfull. label FiledropTest.00I to device X1 LX Line1 on head 1 |
| DEVICE_FOUND PRINTSTART | | | |
| DEVICE_FOUND PRINTSTART | | | |
| PEVICE_FOUND | | | |

Fig. 127: Filedrop system

It is possible to place several start commands in a CSV file. For example: Band1,flogo1.00I,Strawberryjam,20.06.2017 Band2,flogo1.00I,Currantjelly,20.06.2017 Packaging,ean128_aufdruck.00I,1,Jam,062017,03837372 Packaging,ean128_aufdruck.00I,2,Jam,062017,03837372

Here, several prints are print with different print heads, print images and variable data. A normal word-wrap separates the individual data sets.

Input format http

This is exactly the same as the example for the file drop service. The print image has the same content and is stored in our example under HTTP_Sample.00I.

Create a simple http service

Click on the "New Service" button and proceed as follows:

| reate a new service | | | | | × | | |
|---|-------------------------------|-------------|------------------|--------------|-----------------------|----------------|--------|
| Name: HTTPService Type: HTTP Server |] | ~ | | | | | |
| Create a new service | | | | | | × | |
| IP Address 10.0.2.15 Port 88888 Create a new service Decoder O Toxt file (csv) O Regular expressio | n Create ar | new service | | | | x | |
| ○ XML file | Path p | prefix | | | | | |
| Action: Transfer and Start Lab | el V | : | Index: | | 1 | | |
| | PRINT Name LABEI | INAME | 0 Index: 1 | | Add Action Add Action | Rules Rules | |
| | CHAR | RGE | 2 | | Add Action | Rules | |
| Create a new service | | | | | | × |] |
| Group Name: labelgroup1 | | | | | | | Next > |
| Printer: | Label: | | Printh | ead: | | • | |
| 1251 | ✓ \$PRINT | rername; v | Head | 1 ~ [| Default | X | |
| | | | | - Providence | | 2000 | |
| | | | | < Previous | Finish | Cancel | |

Fig. 128: Create HTTP-Server service

Test HTTP interface

Please note that special signs, i.e. German umlauts, must be specially coded in a valid internet query (URL). From the German word Erdbeerkonfitüre is here the cryptic Erdbeerkonfit%C3%BCre. The info line of the action fields in the print image must fill accordingly to transfer variable data via a HTTP query to a print image. Please note that you cannot enter long file paths (paths starting with C: \...) using HTTP query. That means that only print images from the standard print image index can be start.

The print start using a HTTP query has an advantage: You'll get a reliable feedback whether the print start has been realized successfully or whether an error has occurred (printer not available, print image doesn't exist). A print can also be started by copying a query line in the address bar of each web browser. It is a precondition that there is an existing idesign8+ Remote installation under the relevant address and the specified printer and specified print image exist.

command line: http://127.0.0.1:8888/X1%20LX%20Line1/HTTP_Sample/?CHARGE=4711

http://127.0.0.1:8888/

X1%20LX%20Line1/ HTTP_Sample/ ?CHARGE=4711

- \rightarrow IP address and port
- \rightarrow Printer name
- \rightarrow Print image name
- → Variable field content

| iDesign Status | × | * | - | | × |
|---------------------|---|---------|-------|-----------------|------|
| ← → C fi | 127.0.0.1:8888/X1%20LX%20Line1/HTTP_Sample/ | /?CHA | RGE=4 | 4711 ೯ <u>೧</u> | 3 = |
| Done | | | | | |
| Print start success | sfull. label HTTP_Sample.00I to device X1 LX Line1 on h | ead 1 | | | |
| | | | | | |
| | | | | | |
| | Fig. 129: Tes | st with | n Wel | Brov | vser |

Setting up a TCP / IP service

To integrate a system that provides a permanent network connection, use a TCP / IP service. Note that a TCP / IP service can be set up as client or server.

The system you need to integrate is a TCP / Client

In this case, idesign Remote must be configured as TCP server.

The system is a TCP server

Thus idesign Remote must be configured as TCP client.

The system you need to connect cannot provide TCP connections. It is either a device with a USB port or an RS232 connector.

In this case you need an additional device. It is an RS232 / TCP adapter. Such devices are available in free trade, for example from the company MOXA. These systems can be configured as either TCP Server or TCP Client. All you have to do is configure idesign Remote in the exact opposite direction to the MOXA adapter. So if the TCP adapter is configured as a client, then idesign Remote must be a server and vice versa. For details on configuring your adapter, consult the manufacturer's documentation. In the idesign Remote Monitor, click the **New Service** button. Select a **name (1)** and select either **TCP Server** or **TCP Client (2)**, according to the requirements discussed above. **Click Next (3)**. Depending on what you have selected, the process will now continue in a slightly different way.

| ate a new serv | ice | | | × |
|----------------|-----|-------------------|--------|--------|
| Name: | 1 | Test | | |
| Туре: | 2 | TCP / IP Client ~ | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | 3 | |
| | | | Next > | Cancel |

Fig. 130: Setting up a TCP / IP service

You have selected TCP Client

In the next step you have to enter the **IP address (1)** and the **TCP port (2)** of the system you want to integrate. You will most likely get the IP address from your IT administrator if you have not set it up yourself. You can either find the TCP port number in the system documentation or you can configure it in the system.

You have selected TCP Server

Now you have to select on which of your computer's network cards, idesign Remote should wait for incoming connections. Do not select the default 127.0.0.1 unless you want to test idesign Remote or you know exactly what you are doing. Also set a port that the device to be connected uses to connect to its remote station.

Set up a defined message start

Usually, but not always, the data transmissions of scanners start with a defined start signal. This is always a single character, usually a non-printable character. In the documentation of your device you will find which sign it is. To configure a non-printable character, first type a double cross in the **Port field (2)**, followed by the ASCII number of the character. For example, for an STX (Start of Text) you would type #3.

Your device does not send a defined message start

Some systems send a defined end of messages only. A defined start is not absolutely necessary, but creates more security during transmission. In this case, type the zero "#0" into the **Start Delimiter (3)** field.

Set up a defined end of message

A data transmission always has a defined end, a so-called end delimiter. This is also a single ASCII character. If it is a non-printable character, enter another double cross and the ASCII code number in the **End Delimiter field (4)**.

Click Next (5).

| te a new servic | e | × |
|-----------------|------------------------------|------------|
| | | |
| IP Address | 192 · 168 · 0 · 124 1 | |
| Port | 10200 2 | |
| Start Delimiter | #0 3 | |
| End Delimiter | #13 4 | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | 5 | |
| | < Previous Nex | t > Cancel |

Splitting data into printable fields

idesign Remote can now establish a network connection with your system and receive individual messages. However, it does not yet know how to decrypt the received message. In the selection field **Decoder (1)** you have the choice between several decoding methods. In the selection field **Action (2)** you define exactly what the decoder does with the data it has received from your system. The question now is, when you need which decoder.

The received data fields are separated by a fixed character

For example, you receive a line like this Gerhard Langer;49;Steinfelder Chausse 22;Lüdersdorf;368872 If your data looks like this, you should use the decoder text file (csv) user.

The data is sent in XML format.

Although not common over persistent network connections, data may be transferred in this format. Then select the appropriate decoder.

The message consists of several data fields, which do not exist in a simple pattern

Select here the Regular Expression Decoder.

The message consists of only one data field and is to be printed or reused as a whole.

Also use Regular Expression Decoder. In the next step, add only one data field and use the pattern $^{(.+)}$.

Note: The http Path Decoder is only needed for http services. Its use is illustrated in the manual for http services.

Configure what idesign Remote should do with your data

Use the Action (2) check box to specify what idesign Remote should do with your data when it receives it. Below we describe the use cases that idesign Remote supports.

The data is to be inserted into a print template. The resulting image should be printed immediately on the target printer.

To do this, select Transfer and Start Label from the Action selection box.

The data is to be inserted into a print template. This print template is to be sent to the target printer under a specific name and stored there. The actual print start is carried out later by another process or an operator.

In this case, select Transfer Label from the Action selection box.

The data is to be sent to the printer and integrated into a print image template. This print template is already on the printer. Mostly it was transferred with the help of idesign with the print image backup function.

In this case, select Start Label on Printer.

The current print is to be stopped immediately on an existing system.

Select Stop. Click Next (3).

| te a new service | |
|----------------------------|---|
| -Decoder 1 | |
| Text file (csv) | |
| O Regular expression | |
| ○ XML file | |
| ⊖ HTTP path | |
| | |
| Transfer and Start Label V | |
| | |
| | |
| | |
| | 3 |

Assign data fields to placeholders in the print image

In the next step, you assign the individual data fields that make up the message of the connected device to the variable fields in their print screen.

Creating and naming data fields

The window you see now looks slightly different, depending on which decoder you selected in the previous step. We will go into these differences in detail, but first we will concentrate on the control element, which is the same for all decoders. In the lower area of the window, you see a list that is now empty. We will add exactly one entry in this list for each variable field in your print image. We do this by pressing the **plus button (1)** on the right above the list. When you have done this, you will see a **Name (2)** field in each entry on the left that displays the field name. Names such as Field0 are preset. Give the fields meaningful names that reflect their meaning in the finished print image. For example, you specify a field that is to display a shelf life expiration date in the print screen as SLED.

| Create a new service | | × |
|--|---|------------------|
| Regular expression ^([^@]+)@([^.]+).(\w{2}) | | Test |
| | | 1 + |
| Name: 2 Field0 | Index: 1 Add Action Rules | X |
| Name: Field1 | Index: 2 Add Action Rules | X |
| | | |
| | | |
| | < Previous Next > | Cancel |
| | Fig. 133: As | sign data fields |

Inserting the data fields into the print image

To ensure that the data fields actually appear in the printed image, you must first open the printed image in idesign. Then use the same identifiers in the print image that you used when naming the data fields. You have two options for this.

Inserting a data field without length limitation

Open the corresponding action field or variable by double-clicking on it. In the field now write the name of the data field separated by two dashes. These superscripts are sometimes also called pipes. On a German keyboard you reach the output by pressing the Alt-Gr key together with the arrow key left under the A. Attention: On non-German keyboards it can be different. An example: You must enter the identifier for the shelf life expiration date SLED here |SLED|. Upper and lower case are important. There must not be any spaces between the identifiers and the superscript.

Example wrong: | SLED | Example wrong: |sled| Example correct: |SLED|

Inserting a data field with length limitation

Longer text sequences can affect the design of the print image if they are inserted without length limitation. Not always, but sometimes it may be appropriate to sacrifice the right margin of a block of text so as not to destroy the overall picture. This is especially true if there is critical data to the right of the text field in question, such as a 2D code, which must under no circumstances become unreadable.

To insert a data field with length limitation, open the action field or variable by double-clicking on it. Then type a tilde in the field. The tilde can be found on the German keyboard with Alt Gr and the + sign. After the tilde, type the letter small x. You write as many x here as you want to allow for letters in the output. You close the field with a second tilde at the end.

It is important that you do not use a large X. There should be no spaces between the tildes and the x placeholders.

Example correct: At least durable: ~xxxxxxx~

Example wrong: At least durable: ~ xxxXX ~

Then click on **Action field** and type the exact identifier previously used in the idesign Remote configuration into the Default line input field. In this case, SLED. Attention: Upper and lower case are important

Splitting the read message into individual data fields

Finally, we need to tell idesign Remote how to split the input string into data fields in a meaningful way. This is a little different for each of the decoders. We will address each of the existing decoders separately.

CSV / Text Decoder

You use this decoder when the input message is separated into data fields by a single, recurring character. Type this character in the Field separator input field. Often it is a comma or a semicolon.

Regular Expression Decoder

You must enter a valid regular expression in the field **Regular Expression (1)**. This regular expression must meet the following criteria.

It is a regular expression according to Perl standard. POSIX and other standards are not supported.

To fill several data fields, the regular expression must define hit groups with parentheses. As an example a simple printout that fits most email addresses $([^@]+)@([^.]+).(w{2,3})$ Here the email address support@bluhmsysteme.de would be divided into three data fields. The data fields are filled, as in the other decoders, via the **index property (2)** of the field. However, the special feature of filling with regular expressions is that the index 0, with which indexing normally starts, stands for the entire hit. The first hit group found then has the index 1. This must be taken into account.

Testing options

You have the possibility to test the regular expression in the input mask. If you click on **Test** (3), an input field appears into which you can copy an input in the planned format.

| Create a new service | | × |
|-----------------------------|---------------------|------------------|
| Regular expression | | 3 |
| 1 ^([^@]+)@([^.]+)\.(\w{2}) | | Test |
| | | |
| | | + |
| Name: | Index: | |
| Field0 | 2 1 Add Action Rule | x |
| Name: | Index: | |
| Field1 | 2 Add Action Rule | s X |
| | | |
| | | |
| | | |
| | | |
| | < Provio | un Neutro Concel |

Fig. 134: Inserting the data fields into the print image

General information

For more information on the use of regular expressions, the following online resources are available:

| General introduction | https://perldoc.perl.org/perlre.html |
|----------------------|--------------------------------------|
| Online test | https://regexr.com/ |
| environment | |

A database query is to be executed on the basis of the data

A frequently recurring scenario is the following: An individual data key is transmitted via a barcode scanner or a controller (PLC), e.g. an order number. On the basis of this order number, a database query should now be executed. The print image is then to be filled with the result values from the database query.

If this description applies to your requirement profile, you can proceed as follows:

In the field entry containing the query key, click **New Action (1)** and then select Run **Database Query (2)** in the new window. Then **continue (3)**.

| General | | | | | |
|-------------|-----------------------|--------|--------------------------------|--------|--------|
| Windows Ser | vice | 10 i D | - H ' 0.0.00.0 | | |
| | Create a new service | | | | × |
| Cto | Regular expression | 1 | | | |
| Jota | ^([^@]+)@([^.]+)\.(\w | v{2}) | | Т | est |
| log level | | | | | • |
| NOTIFY | Name: | Index: | 1 | | |
| | Field0 | 1 | Add Action Rules | | x |
| | Name: | Index: | New item | | × |
| Event | Field1 | 2 | - | | |
| | | | What to do with the value in | | |
| | | | Action 2 | | |
| _ | | | Execute a Database request | | |
| | | | Send the value to a tcp server | | |
| _ | | | | | |
| | | | | | |
| | | | | | |
| | | | | 3 | |
| | | | | Next > | Cancel |

Fig. 135: Database query

In the following dialog enter an **ODBC connection string (1)** and an **SQL statement (2)**. If none of this tells you anything, then contact your company's IT department or the relevant specialist department.

The following applies to the ODBC connection:

The connection must already contain authentication data. Login and password data cannot be stored in idesign Remote. The user stored in the connection must have read authorizations for all tables and columns included in the SQL query.

The following applies to the SQL query:

All table columns must be named. The use of the star placeholder (SELECT * FROM) is not supported.

Results of SQL functions must be labeled with an alias AS. Example: RTRIM(product info) AS PINFO.

The query must return exactly one record.

The query must contain a WHERE condition that contains the key column and the value |KEY| on the right side of the comparison condition (see (2).

Example: SELECT Name, EAN FROM artikel FROM aid=|KEY|

The result of the query is directly available in the print image, just like the data sent by the system. You can display the result value of the EAN column in the print image by entering the value in your print image template with |EAN|. The extended syntax with length limitation is also possible.

Click Next (3).

| eneral | | | | | | | | |
|-------------|---------------------------|--------|------------|----------|--------------|------------------------|----------------|--------|
| Vindows Ser | rvice | | | <u>^</u> | | | | |
| - | Create a new service | | | | | | | × |
| 💎 Sta | Regular expression | | | | | | | |
| | ^([^@]+)@([^.]+)\.(\w{2}) | | | | | | Test | |
| | | | | | | | | |
| a laval | | | | | | | | |
| g level | | | | | | | | + |
| NOTIFY | Name: | Index: | | | | | | |
| - | Field0 | 1 | _ | Add Act | ion Ri | ules | | Х |
| | Name: | Index: | New item | | | | | × |
| ent | Field1 | 2 | _ | | | | | |
| | | | ODBC Conr | nection: | ServerAddre | ss;Database=Articles;I | Jser Id=mopUse | er, 1 |
| | | | SQL Statem | ent: | SELECT pro | oductname, artno, EAN | 128, amount | 2 |
| _ | | | | | FROM article | es WHERE article_id= | KEY | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | 3 | |
| | | | | | | < Provious | finich | Concel |

Fig. 136: ODBC connection

Selection of printer, print image and print head

All we have to do now is tell idesign Remote on which printer and with which print image we want to print our data. It is also possible to use multiple printers.

Preparation: Registering printers in idesign

However, all this requires that the printers are known in idesign. If not already done, start idesign and include the printers you need for your project there.

Preparation: Have all artwork been created?

If you haven't created all the artwork you need, now is a good time to do so.

Creating the print job

You will create a print image group in this view. You can leave the default name like this. You can also perform the action on multiple devices or print heads. Simply add additional entries with the **+ button (1)**.

How many entries do you need?

If you have selected either Print start, Stop or Transfer and Start as the action type:

For each print head you need to start or stop, you need an entry.

If you have selected Transfer label as the action type.

For each printer to which you send a print image template, you need an entry. Once you have created the required entries, you can start by specifying the **printer (2)**, **print head (4)** and **print image (3)** to be used for each entry

| Create a new service | × |
|---|--------|
| Group Name: | |
| labelgroup1 | |
| | 1 + |
| Printer: 2 Label: 3 Print head: 4 1251 barcode.00 Head1 Default | X |
| | |
| | |
| | |
| | |
| Previous | Cancel |

Fig. 137: Selection of printer, print image and print head

Defining the print image template only when printing

If you do not know which artwork is being used because the name of the artwork is in the message coming from the machine

In this case, go back to the decoder configuration (with the Back button). Enter a meaningful name such as LABEL in the field in which the print image name appears. Go back to the current page. You can now select the field LABEL from the selection field Print image. However, you will notice that there is not LABEL but \$LABEL;. That's right.

Specify printer or print head only when printing

You do not yet know which device or print head to use. Because that, too, is stated in the transferred data.

No problem. Proceed in the same way as for the printed image.

Adding the print image name

In the message from the device, only the print image name but not the full path to the file, or the file extension is missing.

Simply write the file extension after the identifier for the print image name. For example, if you use the identifier PRINT PICTURE, your print job now contains \$DRUCKBILD; Click in the box and add to \$DRUCKBILD;.00I. If your print image is not in the default path, simply set the path in front of it. C:\PrintPictures\\$PRINTPICTURE;.00I.

If a print image name is not always sent

Sometimes a standard print image can be used for the vast majority of products, but some products require a special layout. In this case, the article databases only contain print image names for those articles that require a special print image. n all other articles this column is empty. idesign Remote can map this logic directly.

To do this, click the **Standard button (1)**. In the new window, you can now enter a default print image in the Print Image field (2), which idesign Remote will use whenever the field that normally contains the template name is empty.

If the field comes from a database query, a string with length zero must be contained or the special value NULL. If the value is read in via a CSV decoder, then it is a character string of length zero, i.e. two commas in direct succession, if you use commas as field separators. An XML decoder is also an empty field, or attribute. With a decoder for regular expressions no empty values can be read in, because a regular expression only fits and reacts if a value was read for all its partial patterns. Here you cannot define a default printer.

| 💼 iDesign Re | mote Monitor | × |
|----------------|--|------|
| General | | |
| Windows Se | nice Create a new service X | |
| 💎 Sta | Group Name: labelgroup1 | |
| log level | • | |
| NOTIFY | Printer: Label: Printhead: 1 1251 barcode.00I Image: Constraint of the second sec | |
| Event | Default values X Printer. No default printer 2 Label: 1/Users/Public/UDesign/label/M(max.00) Clear Print head: No default head ✓ | |
| | 3 Ok Cancel | |
| Design service | < Previous Finish Cancel | Hide |

Fig. 138: Using standard print image

Screen Keyboard

| Esc | | • | 1 | | 2 | | 3 | | 4 | | 5 | | 6 | | 7 | | 8 | | 9 | | 0 | | - | | = | | - | | |
|------|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|---|---|---|-----|---|---|---|-----|----------|
| ļŤ | | q | | w | | e | | r | | t | | у | | u | | i | | 0 | | р | | [| |] | | # | | Del | |
| Caps | | | a | 1 | s | | d | | f | | g | | h | | j | | k | | L | | ; | | - | | ļ | | | | |
| ¢ | | ١ | | z |) | x | 0 | 2 | ۷ | | b |) | n | ı | r | n | , | , | | | | / | 4 | Ŷ | | | | Ť | Fn |
| Ctrl | Alt | | | | | | | | | | | | | | | | | | | Alt | G | r | С | trl | | | + | Ļ | → |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Fig. 139: Screen Keyboard

8. Options

General



Set up language

Instruction

Please set the user language as follows:

| Step | Procedure |
|------|--|
| 1 | Click on General settings in the selection register Tools. |
| 2 | Select the desired language by mouse click in the list field "user languages". |

| NOTICE | You need a further language? Contact Weber Marking Systems. |
|--------|--|
| | we can help you. |



The changes will be assumed after the idesign8+ restart.

Design

You can choose between 4 different designs.



Activate DB Print

The DB Print function is used for a serial print from databases, i.e. of serial numbers or address print. The function is deactivating by default and can activate here if required. In the

| main menu is displayed this button | DBPrint | | DB Print | | | |
|------------------------------------|----------------------------|-------|----------|-----|----|----------|
| NOTICE | DB-Print can systems only. | be us | sed with | PRO | or | ULTIMATE |

Distributor features

This function is only available for official Weber distributors and must be considered separately.

Automatically check for updates for idesign8+

If activated, idesign automatically searches for a newer version at program start. If one was found, the changes are displayed in a list. By confirmation the download and the installation can be made directly.

Stitch Function

If this function is deactivated, the stitch function in the system settings menu is hidden for safety reasons.

Display print start menu "Print image group"

If the function "Print image group" is can be activated here.

Store variable fields

This option specifies whether a queried variable field is saved with print request and will be displayed as default line with a new print request. This is useful to enter only the data that has actually changed. Data that hasn't changes can confirm by the Enter-button.

Check variable length

With this option it can be defined whether a queried variable field is to be checked for length at print call. The length is defined by the number of letters x.

Counter start value

The start value of a counter must be confirmed with print start or rather the desired start value can be entered by using a counter field in a print image with an active function. The last counter value will be saved by a print stop and continued with a new print start. Which counter start should be written, can be adapted.

| Data type | Description |
|------------------|--|
| From Label | The defined start value in a label will be used as counter value automatically (standard). |
| User input | The counter start value will be queried without standard value. |
| Last value | The current counter value will be saved in the label and used with a new print start. |
| Query last value | The counter start value will be queried from the user. The counter start value is requested by the user. The current counter value is displayed as default line. |

Menu Shortcuts

| | | - | | × |
|--------------------------|------------------|----------|-------|------|
| Allgemeine Einstellungen | Druckbildgruppen | | (| i |
| | | | 8.0.4 | pro |
| | Fig. 1 | 41: Menu | Short | cuts |

In the upper menu bar, the last five selected menu items are always displayed for quick access.

Settings and resources location

With the installation of idesign8+ a directory will be generate in C:\users\public\. This directory includes all variable data of idesign8+, that means label, logo, font types and program settings will be saved.

To put the settings and resources to another storage location, the directory can i.e. be moved to a network drive. This is useful to have access to a label trunk with multiple instances of idesign8+. Either the complete idesign8+ directory can be copied or there is the possibility to use a file path of an existing idesign8+ directory. Furthermore, there is the possibility to move the print images and logo directory individually. Click on the button Change to do the settings by a Wizard. Also already made settings can be cancel here.

| Directories | |
|--|-----|
| Print message directory | |
| C:\Users\Public\idesign\label\webinar\ | ••• |
| Logo directory | |
| C:\Users\Public\idesign\logos\ | ••• |
| Working directory | |
| C:\Users\Public\ | |

Fig. 142: Settings and resources location

Database connection

The following settings are applied in the **Database** submenu:

- Database selection
- Settings



Download 32-bit ODBC Treiber for Excel und ACCESS 2010 and higher: <u>https://www.microsoft.com/en-US/download/details.aspx?id=13255</u>



Fig. 143: Database menu

Open file

Open ODBC

| Open data file | | | | | | × |
|-----------------------------|----------------------|---------------------------|----------|------------------|----------------------------|------------|
| 🔸 🔶 🗠 🚹 < Lokaler Datent | räger (C:) 🔻 Benutze | r 🕶 Öffentlich 💌 idesign_ | ▼ data ▼ | - 0 | "data" durchsuchen | Q |
| Organisieren 👻 Neuer Ordner | | | | | 1355 💌 | |
| repos | ∓^ Nar | me 📩 | ~ | Änderungsdatum | ~ Тур | Größe |
| webinar | | data | | 02.07.2020 13:43 | Dateiordner | |
| Messages | | DemoTable | | 09.04.2021 13:51 | Dateiordner | |
| Philaposte | | UTF8-txt | | 04.02.2020 13:31 | Dateiordner | |
| single topics | | taucher.mdb | | 21.09.2011 08:05 | Microsoft Access | 220 KB |
| Discos | 48 | taucheraccdb | | 09.03.2020 11:15 | Microsoft Access | 376 KB |
| 3D-Objekte | 2 | tauchermdb | | 09.03.2020 13:58 | Microsoft Access | 244 KB |
| Bilder | | | | | | |
| Desktop | | | | | | |
| Bokumente | | | | | | |
| Downloads | | | | | | |
| Musik | | | | | | |
| Videos | | | | | | |
| Lokaler Datenträger (C:) | × / | | | | | \ \ |
| Dateiname: | | | | ~ | Microsoft Access (*.mdb, * | .accdb) 🗸 |
| _ | | | | | Öffnen (th | bracham |
| | | | | | ojinar MD | Uncontern' |

Fig. 144: Open file

ODBC Connections: Articles ~ OK Cancel

Fig. 145: Open ODBC link

| ≡ | | | Database | | | | | | | | - | - × |
|-----|-------------|-----------------|--------------------------|------------|---------------|-------------|-----------|---------------|------------------|----------------------------------|----------------|---------|
| А | ()//// | | Select database Settings | | | | | | | | | |
| 9 | | | Open file Open ODBC | Close | Tables: | taucher | | | \sim \bowtie | \triangleleft \triangleright | ⊳ s | earch |
| B | | | CUSTNO COMPANY | | ADDR1 | | ADDR2 | CITY | STATE | ZIP | COUNTRY | PF ^ |
| Ø | | | > 1221 Twilight Club | | 4-976 Sugarl | oaf Hwy | | Kapaa Kauai | HI | 94766-1234 | US | 80 |
| ~ | | | 1231 Unisco | | PO Box Z-54 | 7 | | Freeport | | | Bahamas | 80 |
| 2 | | | 1351 Sight Diver | | 1 Neptune La | ine | | Kato Paphos | | | Cyprus | 35 |
| | | | 1354 Cayman Divers Wor | ld Unlimit | PO Box 541 | | | Grand Cayman | | | British West | ndi 01 |
| ŝ | Ś | Options | 1356 Tom Sawyer Diving | Centre | 632-1 Third I | rydenhoj | | Christiansted | St. Croi | 00820 | US Virgin Isla | inds 50 |
| φ. | | | 1380 Blue Jack Aqua Cent | er | 23-738 Padd | ington Lane | Suite 310 | Waipahu | HI | 99776 | US | 40 |
| 鳳 | 昆 | Database | 1384 VIP Divers Club | | 32 Main St. | | | Christiansted | St. Croi | 02800 | US Virgin Isla | inds 80 |
| -~ | - 144 | | 1510 Ocean Paradise | | PO Box 8745 | | | Kailua-Kona | HI | 94756 | US | 80 |
| | 品 | Label Groups | 1513 Fantastique Aquatic | a | Z32 999 #12 | A-77 A.A. | | Bogota | | | Columbia | 05 |
| | .0 | | 1551 Marmot Divers Club | | 872 Queen S | t. | | Kitchener | Ontario | G3N 2E1 | Canada | 41 |
| | 46 2 | User Management | 1560 The Depth Charge | | 15243 Under | water Fwy. | | Marathon | FL | 35003 | US | 80 |
| | | | 1563 Blue Sports | | 203 12th Ave | . Box 746 | | Giribaldi | OR | 91187 | US | 61 |
| (j) | ž | Event Logging | 1624 Makai SCUBA Club | | PO Box 8534 | | | Kailua-Kona | HI | 94756 | US | 31 |
| 0 | •- | | 1645 Action Club | | PO Box 5451 | -F | | Sarasota | FL | 32274 | US | 81 |
| | | | 1651 Jamaica SCUBA Cen | tre | PO Box 68 | | | Negril | Jamaica | | West Indies | 01 |
| | | | < | | | | | | | | | > |
| 0 | | | | | | | | | | | | R, |

Fig. 146: Open database

Use the "Search" button to find a specific line in the database. The search always references the line entered in "Settings".

The down (right) buttons are used to navigate in the table. The buttons at each end jump to the beginning (left) and end (right). The two buttons in the center move the cursor up (left) or down (right) by one position.

The **Settings** tab takes you to the menu item for database settings.

Settings



Fig. 147: Database settings

General

The **General** field determines the column used for the search function.

| General |
|---------------------------------|
| Add column names |
| Request password |
| DB Server mode (Client default) |
| |

Fig. 148: General field

Add column names is useful if the table has no field names. It will give each field a standard name F1...Fn. (like e.g. in Microsoft® Excel)

Text files

| Text files Field separator | |
|-------------------------------|--------|
| *.txt, *.csv files | |
| semicolon | \sim |
| Text Delimiter: | |
| None (default) | \sim |
| | |

Fig. 149: Text Files

Global definition of a field separator and a text delimiter.

Calculate expiry date

In the expiry date field, an offset can be assigned to the BBD, determined from the database values. This means that the current date is increased by the number shown in "Field name". The number in the field corresponds to the days added.

By ticking next to "User query", the generated date can be re-checked or changed by the user/operator.

| Calculate expiry date |
|-----------------------|
| □ active |
| User inquiry |
| Format: |
| ab.cd.gh |
| |
| |
| Field name: |
| ~ |
| |

Fig. 150: Calculate the expiry date field

Alternative layout

The "Alternative Layout" field enables download of an alternative layout from the table. The field name for this can be defined here. This function is switched on by ticking "active". The name of the alternative layout must be stored in the table. If the field is empty, the Standard Layout remains in use.

| Alternativ layout | |
|-------------------|--------|
| Field name: | |
| | \sim |
| | |
| | |
| | |

Fig. 151: Alternative layout field

Label groups

Function

Label groups can be defined in order to assign to every print head of all connected printer an individual label. The label group can be also created with mixed print technologies. The target is to fill up a group of print heads with individual labels with only one button press.

Create a label group

Select the menu Label groups of the sub menu Layout. Already existing label groups will be displayed for editing, checking and deleting.

| \equiv | | /////////////////////////////////////// | | | | | | - | × |
|------------|-------------|---|-------------------------|-----------------------|---------|----------|--------|---|---|
| | | | Label Groups | | | | | | |
| \$ | | | N11924-x4 | Head 1 | mw2.00I | Ŵ | HP | | |
| | | | 006636-x1 | Head 1 | | Ŵ | LX | | |
| 22 | | | Q08399-x1 | Head 1 | | Ŵ | HP | | |
| ٤¢3 | 钧 | Options | \$06497-x4 | Head 1 | | Ŵ | HP | | |
| ₽ | ₽ | Database | 506626-x1 | Head 1 | | Ŵ | HP | | |
| | ę | Label Groups | T07690-x1 | Head 1 | | 圃 | PP | | |
| | 46 8 | User Management | <u>s</u> | | | _ | | | |
| | ŝΞ | Event Logging | T10357-x1 | Head 1 | | Ŵ | HP | | |
| 8 | | | 009561-x2 | Head 1 | | Ŵ | HP | | |
| \bigcirc | | | Query Action Fields for | r Similar labels only | once | Save | Cancel | | |
| | | | | | | | | | |
| \bigcirc | | | | | | | | | 5 |

Fig. 152: Creation of a new label group

In order to create a label group, press the button "New". All defined printers will be displayed. Now you can select a label for each individual print head. For every label group can be defined if variable fields queried only once for all or for every label separately.

| \equiv | | | | | - | | × |
|------------|---------|-----------------|--------------|---|---|---|---|
| | | | Label Groups | | | | |
| ð | | | New Delete | Edit | | | |
| B | | | Name | PP0005 | | _ | |
| ø | | | Line1 | ART: XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | | | |
| X | | | | | | | |
| ক্ষ | 钧 | Options | | mw2.001 | | | |
| 勗 | 昆 | Database | | S06626-x1 Head 1 sample03.001 | | | |
| | e a | Label Groups | | U09561-x2 Head 1 test01.001 | | | |
| | 464 | User Management | | | | | |
| | ≆≡ | Event Logging | | | | | |
| 8 | | | | | | | |
| i | | | | | | | |
| | | | | | | | |
| \bigcirc | | | | 1 | | | 5 |

Fig. 153: Creation of a new label group

If one or more label groups defined a "Label group" button will be displayed. Press this to show the print start label group menu.

40094502 idesign8+



you can run a print start or print stop of the selected

With the buttons label group.

▶ Start

User Management

Overview

The idesign8+ user management facilities allows for access to dedicated features of idesign8+ based on user name and password identifiers. In this regard, it follows the standard approach, which most users are familiar with, from i.e. the Windows operating system and many more.

However, because there are many different requirements on how to manage user credentials in the field of industrial applications, idesign8+ comes with three different flavors of user management. The list below provides a short overview of those:

| Туре | Characteristics |
|-------------------------------------|---|
| Simple user Management | Three fixed access levels. Passwords are to be chosen at first configuration and can be changed later on. Credentials for each level can be changed as well. |
| Advanced User Management | Unlimited number of users and user groups. One can assign any number of credentials to a user group which can, in turn, can contain any number of users. |
| GAMP Advanced User Management | Like above with an enhanced and more restrictive security model. |

Each of the user management systems covers some requirements that motivate the use of user based access to idesign8+ features. In the following section we would like help you, to find out which approach will fit your needs. Additionally, we will provide a more in depth explanation of the features provided.

Simple User Management

This type of user management provides three fixed access levels. The passwords, needed to access one of the levels, can be adjusted during activation of the user management. The passwords, as well as credential details, can be changed later on but note that this can only be done by the level "Administrator".

Each of the access levels can be configured, except the admin level which is fixed to have all available credentials. This is mainly to prevent the admin level from lock itself out from the system.

If your primary reason for the use of a user management is just to keep control of the current settings of your connected devices, thus keep shift workers away of the more sophisticated settings of the devices, then you are probably best off, using the simple user management. Please, refer to the section Setting up the simple user management, to learn how to configure it.

Guest credentials

If User Management is activated in idesign8+, one has to type in a password in order to do even the most basic tasks. Sometimes, this behavior is too restrictive. You want, for example, a line worker to be able to observe the status of some printers or want them to be able to start and stop print jobs without the need to log in each time. This can be achieved by setting up the standard user as a guest account. If this option is enabled, the standard user is automatically in logged in state after idesign8+ is started and it has no password assigned. However, you can still restrict some of the more sensible features of idesign8+ using the admin and super user access levels.

Advanced User Management

The need to use this mode of the user management arises if the access levels, provided by the simple user management don't fit to the kind of personnel that works in your factory, i.e you need to have more than three types users that will use idesign8+. In this case, you will need to define your own access levels. Furthermore, you may want to provide each user with a unique log in / password for his own use, instead to have just one "common" password to use for all employees that should log in using a distinctive access level.

Once, the advanced user management is activated, the dedicated "admin" user can create an unlimited number of users. Each user will have a unique login-name and a password. Users are always member of a user group. A user group in turn will have several credentials attached. The admin user can add or remove credential from each user group as required. Find an exhaustive list of all available credentials in the appendix A.

Guest Account

In the same manner as in the Simple User Management, it's possible to create a guest user, that will become active when no other user is logged in and which is logged in immediately after start of idesign8+.

Please, refer to the section Setting up the Advanced User Management to learn more.

GAMP Advanced User Management

If you need enhanced security features and a close monitoring of user activities, then the GAMP User Management is the correct choice for you. The GAMP Management is similar to the Advanced User Management, in terms of user and user groups but provides some features that are not needed by all customers, therefore we decided to provide those features as an extra option.

In particular, those features are:

- Users that are created by the admin user will be asked to change their password after the first successful logon.
- If a user tries three times to dial in without success, this user will be locked. That means, this user cannot log in anymore. Only the user "admin" is able to unlock this user again, by providing her / him a new password (that she or he will need to change after first login, again).
- After 5 Minutes of inactivity a user will be automatically logged out.
- Use actions will be captured in a log file.

Please, refer to the chapter activate GAMP User Management and Configuration of the GAMP User Management for further details.

Simple user management

Instruction

Please setup the simple user management as follows:

| Step | Procedure |
|------|---|
| 1 | Start idesign8+. |
| 2 | Select menu "Tools". |
| 3 | Press "User Management" button |
| 4 | A new window will appear. Select the choice "simple user management". |

| User Management |
|--|
| Operation mode |
| • No user management |
| O Simple User mangement . Three users with fixed credentials |
| O Advanced user management. Unlimited Users and Groups |
| O GAMP user management. Advanced security features |
| |
| |
| |
| Cancel Next |

Fig. 155: Simple User management

| 5 | Press "Next". | | | | |
|---|---------------|--------------------------------------|----------|--------------------------------------|----|
| | | User Managem | ient | | |
| | | Basic Usermangament | Settings | | |
| | | Administrator Password Confirm | ••• | | |
| | | Super User Password Confirm | ••• | | |
| | | Standard User Password Confirm | ••• | Automatic login | |
| | | Back Fir | nish | | |
| | | | | Fig. 156: Setup Simple User manageme | en |
| 6 | Now, you need | d to insert three | password | s. You will need to enter each | |

Now, you need to insert three passwords. You will need to enter each password twice. If you typed all the passwords correct, the "next" button is enabled.

| Step | Procedure |
|------|--|
| 7 | If everything went well, press "next". idesign8+ will shut down and restart. |

Simple user management with guest user

Instruction

Please setup the simple user management with guest user as follows:

| Step | Procedure |
|------|--|
| 1 | Select the menu "tools". |
| 2 | Press button "user management". |
| 3 | A new window will appear. Select the choice "simple user management". |
| 4 | Press "Next". |
| 5 | Now, type in the passwords for the admin user and super user. You can leave the entries for the standard user blank. You will note, that you need to type each of the passwords twice. |

| Administrator | |
|---------------|-------------------|
| Password | ••• |
| Confirm | ••• |
| Super User | |
| Password | ••• |
| Confirm | ••• |
| Standard User | |
| Password | 🗹 Automatic login |
| Confirm | |

Fig. 157: Setup User management

| 6 | Tip the automatic login checkbox inside the standard user group box. |
|---|--|
| 7 | Click the finish button. idesign8+ will restart. |

Using idesign8+ with Simple User Management enabled Login after start

Instruction

Please use idesign8+ with enabled simple user management as follows:

| Step | Procedure |
|------|---|
| 1 | Start idesign8+. ⇒ You will notice that most buttons and controls are in gray color and that they don't react on mouse clicks. |
| 2 | To log in, click on the buttons at the top right of the main window as shown in the graphic below. |
| | |
| | Fig. 158: Login |
| 3 | In the dialog window that will appear now, select first the kind of access level that you want to enter. |
| 4 | After that type the password in the input field below. |
| 5 | Press ok to log in. |

Change the current access level

See log in after start.

Log out

Instruction

Please log out as follows:

| Step | Procedure |
|------|---|
| 1 | Press the button on the bottom bar. |
| 2 | On the menu that will appear then, select logout. |
| 3 | You will be asked if you really want to log out. Confirm by pressing the Ok button. |

Further Configuration of the Simple User Management

Make sure that the Simple User Management is activated. See Setup of the Simple User Management for details. If the Simple User Management is activated, then start idesign8+ and log in to idesign8+ with the access level admin. See chapter Login after start for details. Then proceed as follows:

From the main menu select the strip "tools"

Select "user management". idesign8+ should look like the image below now. If this is not the case than you have probably not the Simple User Management activated.



Fig. 159: Configuration User management

Change a Password

Instruction

Please change password as follows:

| Step | Procedure |
|------|--|
| 1 | Select an access level (admin, super user or standard user) from the list at left. |
| 2 | Click the edit button below the list of credentials. |
| 3 | Type the new password to the input fields. Note, that you need to type the new password twice. |



rig. 100. Oser manageme

4

Confirm your settings by pressing the Save button.

Change the credentials

Instruction

Please change the credentials as follows:

| Step | Procedure |
|------|--|
| 1 | Select an access level (admin, super user or standard user) from the list at left. |
| 2 | Click the edit button below the list of credentials. |
| 3 | To add a new credential to the selected access level, click on the check box near the description of the credential. To remove already assigned credentials remove the tick in the box by a mouse click. |
| 4 | Confirm your changes by pressing the Save button. |



It is not possible to add or to remove any credentials from the admin access level.

Select an access level as guest level

Instruction

Please select an access level as gust level as follows:

| Step | Procedure |
|------|---|
| 1 | Select an access level. |
| 2 | Click the edit button. |
| 3 | Tick the login automatically check box. |
| 4 | Confirm your changes by pressing the Ok button. |

Advanced User Management Setup

Instruction

Please setup the Advanced User Management as follows:

| Step | Procedure |
|------|--|
| 1 | Select the menu "tools". |
| 2 | Press button "user management". |
| 3 | A new window will appear. Choose "Advanced user management". |
| | User Management |

| Ober Marie | igeniene | | | |
|---------------|---------------|-----------------|---------------------|----|
| Operation mod | le | | | |
| O No user man | nagement | | | |
| O Simple User | mangement . T | hree users wit | n fixed credentials | |
| Advanced us | ser managemer | nt. Unlimited U | sers and Groups | |
| O GAMP user r | nanagement. A | dvanced secur | ity features | |
| | | | | |
| | | | | |
| | | | | |
| Cancel | Next | | | |
| | Fig. 1 | 61: Advance | ed user manageme | nt |

| 4 | Press "Next". |
|---|---|
| 5 | Enter the administrator password. Note that you must repeat the password for security reasons. Note as well that you must log in to idesign8+ using this password to do any further settings. If these passwords get lost, you are probably locked out from idesign8+ at all. |

| Advanced Usermana | agement Settings |
|--------------------------------------|------------------|
| Administrator Password Confirm | ••• |
| Standard User with | out login |
| | |
| | |
| | |
| | |
| Step | Procedure |
|------|---|
| 6 | Press "finish". Idesign8+ will restart. |
| | ⇒ The Advanced user management is active now. |

Advanced User Management setup with guest user

Instruction

Please setup the Advanced user management with guest user as follows:

| Step | Procedure |
|------|--|
| 1 | Select the menu "tools". |
| 2 | Press button "user management". |
| 3 | A new window will appear. Select the choice "Advanced user management". |
| 4 | Press "Next". |
| 5 | Now, type in the passwords for the admin user and super user. You can leave the entries for the standard user blank. You will note, that you need to type each of the passwords twice. |

| Advanced Usermanag | gement Settings | |
|--------------------------------------|-------------------|----------------------------|
| Administrator Password Confirm | ••• | |
| Standard User witho | ut login 🗹 Create | |
| | | |
| Back F | Finish | |
| | | Fig. 163: Setup guest user |

| 6 | Now click the check box "create" which his to be found in the group box "standard user without login". |
|---|--|
| 7 | Click the finish button. idesign8+ will restart. |

Using idesign8+ with advanced user management enabled Log in after start

Instruction

Please use idesign8+ with enabled Advanced user management as follows:

| Step | Procedure | | |
|------|--|--|--|
| 1 | Start idesign8+. ⇒ You will notice that most buttons and controls are in gray color and that the don't react on mouse clicks. | | |
| 2 | To log in press the button "user management" | | |
| | Fig. 164: Login | | |
| | | | |
| 3 | In the dialog window that will appear now, select first the kind of access level that you want to enter. | | |
| 4 | After that type the password in the input field below. | | |
| 5 | Press ok to log in. | | |

Further setup of the advanced user management

Make sure that the Advanced User Management is activated. Advanced user management setup for details. If the advanced user management is activated, then start idesign8+ and log in to idesign8+ using the admin user. See chapter Login after start for details.

| 8 | 11/// | | Group Name | Members | Members of Adm | ninistrators Credentials Settings | | |
|---|-------------|-----------------|---|-------------|----------------|-----------------------------------|------------------|--|
| | | | Administrators Standard Super-Users | 1 1 0 | Login admin | Full name Administrator | Status active | |
| 2 | | | | | | | | |
| ŝ | ŝ | Options | | | | admin | | |
| ₽ | 臣 | Database | | | Edit | Prename Administrator | | |
| | đ | Label Groups | | | Delete | Set new password | | |
| | 46 8 | User Management | | | | | | |
| Ð | ŝΞ | Event Logging | | | | | | |
| Ð | | | | | | | | |
| | | | | | | | | |

Fig. 165: Setup user management

Proceed as follows:

From the main menu select the strip "tools"

Select "user management". idesign8+ should look like the image below now. If this is not the case the advanced user management is not active.

Create a new user group

Instruction

Please create a new user group as follows:

| Step | Procedure |
|------|---|
| 1 | Click on the button "new group". |
| 2 | Type the name of the new user group in the input field of the new dialog. |

Note that it's not permitted to create 2 groups with the same name.



3

Press "ok" to save the group.

Delete a user group

Instruction

Please delete a user group as follows:

| Step | Procedure |
|------|--|
| 1 | In the list of group entries to the left, select the group that you want to delete. |
| 2 | Click the "delete group" button. |
| | Note that it's not permitted to delete a group with assigned users. In this case, the "delete user" button will appear in gray and will not react to user input. You will need to delete all the users in the group one by one before the group can be deleted. |
| 3 | After pressing the delete button, idesign8+ will ask you confirm your decision by pressing an "Ok" button. |

Assigning or removing credentials

Instruction

Please assigning or removing credentials as follows:

| Step | Procedure |
|------|--|
| 1 | Select a group from the list. |
| 2 | Click on the tab "credentials". |
| 3 | To set a credential, click on the check box in a list entry. Credentials which are already assigned to a user group will appear with a tick in the box. To remove the credential, you can remove the tick. |



Fig. 167: Setup user management

4

Don't forget to confirm your changes by pressing the "save" button below.

Create a new user

Instruction

Please create new user as follows:

| Step | Procedure |
|------|---|
| 1 | Select the group to which you want to assign the new user. |
| 2 | Click on the tab header tiled "users of" followed by the name of the selected group. |
| 3 | Press the button "add user". |
| 4 | In the dialog window that will appear now, please fill in all the input fields. You will need to insert the password twice. As soon as all entries are correct, the "ok" button will become enabled |

| Step | Procedure |
|------|--|
| | = User Management |
| | Group Name Members Administrators 1 Standard 1 Super-Users 0 Operators 0 Count Name 0 Diperators 0 Operators 0 OK Cancel |
| | C Delete Fig. 168: New us |
| 4 | Press "Ok" to save the new user. |

Edit user details

Instruction

Please edit user details as follows:

| Step | Procedure |
|------|---|
| 1 | Select a user from the list in page center. |
| 2 | Click the "edit" button. |
| 3 | Change the name and surname entries as required. Note, that it's not possible to change the log in identifier of an user. |



Fig. 169: Setup user management

| 4 | If you need to change the password of an user, tick the check box "set new password". |
|---|---|
| 5 | You need to type the password twice, for safety. |
| 6 | Confirm your changes by pressing the "save" button. |
| | |

Delete users

Instruction

3

Please delete users as follows:

| Step | Procedure |
|------|---|
| 1 | Select the user that you want to delete |
| 2 | Press the "delete user" button. |

| Group Name Members | Members of operators Cre | dentials Settings | |
|-----------------------------|---|-------------------|---------------|
| Standard 1 Super-Users 0 | JD Jo | ll name hn Doe | Status new |
| operators | | | |
| | | | |
| | you really want to delete this user? IF | | |
| | year carly mark to detere and user i. A | | |
| | Ok | Cancel assword | |
| | | | |
| | | | |
| | | | |
| | | | |
| New Delete | | | |
| Gi Ari St St Op | New Delete | New Delete | New Delete |

Note that it's not permitted to delete the user Administrator.

Confirm by pressing ok on the dialog.

GAMP User Management Setup

Instruction

Please setup the GAMP User Management as follows:

| Step | Procedure |
|------|--|
| 1 | Select the menu "tools". |
| 2 | Press button "user management". |
| 3 | A new window will appear. Choose "GAMP user management". |
| | User Management |
| | |

| Operation mo | de | | | | |
|--------------|--|----------------------|--|--|--|
| O No user ma | nagement | | | | |
| O Simple Use | O Simple User mangement . Three users with fixed credentials | | | | |
| O Advanced u | O Advanced user management. Unlimited Users and Groups | | | | |
| • GAMP user | management. Advance | ed security features | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| Cancel | Next | | | | |

| 4 | Press "Next". |
|---|--|
| 5 | Type the password for the admin user. You will need this password later on so make sure that you typed it exactly as you intended. A typing error in your password will lock you out permanently from the system |

| GA | AMP User Mana | igement Sett | ings | | |
|----|---------------|--------------|------------------------------|----|--|
| A | Administrator | | | | |
| | Passwor | d ••• | | | |
| | Confirm | ••• | | | |
| | | | | | |
| | | | | | |
| | | 0 | idesign8+ will be restarted. | | |
| | | 0 | idesign8+ will be restarted. | Ok | |
| | | 0 | idesign8+ will be restarted. | Ok | |

Fig. 171: GAMP user management

Detailed setup und configuration of the GAMP user management is similar to the Advanced user management. Please, refer to the chapter further setup of the advanced user management for details.

Specifics of the GAMP user management

The GAMP user management resembles all features of the advanced user management. However, there are some additional security enhancements.

- A user that logs in the first time to idesign8+ will need to change her or his password in order to proceed to the main screen. This will happen only once, for the sake of increased security.
- If a user will type three times consecutively a wrong password, he or she will be locked out from the system permanently. The user in question will need to approach the admin user and ask him or her to apply a new password. After that, the lock is removed.
- idesign8+ will log off a user automatically if it receives no input by mouse or keyboard for more than five minutes. After this period, the user must log in again.

Troubleshooting

What if the admin password got lost?

If you locked yourself out of the system or the admin password is lost, please, contact the Bluhm Weber Support Team.

Appendix List of available credentials

| Credentials | Description |
|-----------------------|---|
| Print Start / Stop | Access to the "Print" button of the "functions" menu |
| Status view | Access to the "Status" button of the "functions" menu |
| Label backup | Access to the "Label Backup" button of the "functions" menu. |
| Basic Device Settings | Access to the "Print Parameters" settings strip in the "settings" form of the "functions" menu. |
| Change Device Type | Access to the "Device Setup" slider in the "settings" form of the "functions" menu. |
| Change Ink Settings | Access to the "Spitting and Warming" slider in the "settings" form of the "functions" menu. |
| Change Head Setup | Access to the "Head Setup" slider in the "settings" forms of the "functions" menu. |
| Change IO Settings | Access to the "IO Output" slider in the "settings" forms of the "functions" menu. |
| Database Settings | Access to the "Database Connection" button in the "Layout" menu. |
| Edit Labels | Access to the "Editor" button in the "Layout" menu. |
| USB Backup | Access to the "USB Backup" button in "Layout" menu. |
| Labels from DB | Access to the "Create labels from DB" button in the "Layout" menu. |
| Add Devices | Access the buttons "Add Ethernet connection", "search network", "search com ports", "Save" and "Delete" on the "Connections" menu. |
| Start / Stop server | Access the buttons "Start server" and "Stop server" on the "Connections" menu. |
| Update Firmware | Access the button "Update Firmware (Legacy)" on the "Connections" menu. |
| General Settings | Access the button "General Settings" in the "Tools" menu. |
| Log files | Access the button "Interface logging" on the "Tools" menu. |
| Terminal | Access the button "Terminal" on the "Tools" menu. |
| USB Firmware | Access the button "USB Stick Firmware" on the "Tools" menu. |
| Event log | Access the button "Event logging" on the "Tools" menu. |
| User management | Access the button "User Management" on the tools menu |
| DB Print | Access the button "DB Print" on the "functions" menu. |

Event Logging

If the user management is active, all user inputs are listed in the Logging event.

9. DB Print

General description

DB Print is only for printers of the X series or Integra series in upgrade level Pro or Ultimate. DB Print works only with Ethernet connection. No coupled (stitch) controllers are allowed (X1JET Stitch/XB8JET/integra Quadro²)

With the DB Print function, one or more labels with data from a database table can be printed serially. Also, several devices are connected together. It is effective only for the following devices:

- Text files, Excel tables and Access tables are permitted as data sources
- An ODBC interface is also available to access SQL databases, for example
- Typical areas of application are the printing of serial numbers, winning codes or the addressing.

Tab Production



Fig. 173: User interface

Creating a print job

First, open a database file. It will be Excel, Access, TXT and CSV files are supported.

| \equiv | | | | | | | | | - | | × |
|------------|----------------------------|---------------------------------------|----------------------|--------|----------------|-------|---------|---------|-----|---------|----|
| | | DBPrint | | | | | | | | | |
| 8 | | Production Print job editor Setup | | | | | | | | | |
| D | | New Open S | Save Save as | | | | | | | | |
| ø | U09561-x2 192.168.8.106 | 1221 | | | | | | | | | |
| X | | Tailiaht Ohah | | | | | | | | | |
| ŝ | | Twilight Club | | | | | | | | | |
| 圜 | | Printer and label Database table Opti | ions | | | | | | | | |
| | | Tables: | | | | | | | | | |
| | | taucher | ~ | OpenDB | Open ODBC | | | | | | |
| | | CUSTNO COMPANY | ADDR1 | ADDR2 | CITY | STATE | ZIP | COUNTRY | PHO | ONE | ^ |
| | | > 2135 Frank's Divers Supply | 1455 North 44th St. | | Eugene | OR | 90427 | US | 503 | 3-555-2 | 7 |
| | | 2156 Davy Jones' Locker | 246 South 16th Place | | Vancouver | BC | K8V 9P1 | Canada | 803 | 3-509-0 | 1 |
| 0 | | 2163 SCUBA Heaven | PO Box Q-8874 | | Nassau | | | Bahamas | 011 | 1-32-09 | 14 |
| ~ | | 2165 Shangri-La Sports Center | PO Box D-5495 | | Freeport | | | Bahamas | 011 | 1-32-08 | 5 |
| \bigcirc | | 2315 Divers of Corfu, Inc. | Marmoset Place 54 | | Ayios Matthaio | Corfu | | Greece | 30- | 661-88 | 3 |
| \bigcirc | | 2354 Kirk Enterprises | 42 Aqua Lane | | Houston | TX | 77079 | US | 713 | 3-556-6 | 4 |
| | | 2975 George Bean & Co. | #73 King Salmon Way | | Lugoff | NC | 29078 | US | 803 | 3-438-2 | 7 |
| | | < 2084 Professional Divers 1td | 4724 Malinda Ct | | Hoover | A1 | 221/15 | 110 | 205 | | 2 |
| (') | | | | | | | | | _ | | ĸ |

Fig. 174: Job editor

Instruction

Please open a text file (*.csv, *.txt) as follows:

| Step | Procedure | |
|------|--|---|
| 1 | Go to the following submenu: Main Men \rightarrow Text Files. | $u \rightarrow Settings \rightarrow Database \rightarrow Settings$ |
| | | Text files Field separator *.txt, *.csv files semicolon Text Delimiter: None (default) Fig. 175: Setting for text files |
| 2 | Check whether the appropriate field sep set it. | arator is selected and, if necessary, |
| | | General Add column names Request password DB Server mode (Client default) |
| 3 | If there are no field names in the first line generated automatically here. Dependin unique identifiers are a prerequisite for f | Fig. 176: Setting for text files e of the data text file, they can be ig on the number of F1Fn These ield assignment in print layouts. |

ODBC-connections are also supported

Label creation

After the database is open, call the editor for the label design. In the menu of the text field the database button is now available. Add one or more database fields in the layout and save it. Per text or barcode field one database field is allowed.



Fig. 177: Insert database fields into a label

Allocation of Label

The assignment is done by opening the file. Click on the line and a preview will be shown.



Fig. 178: Allocation of label

Individual print heads or devices may be omitted. Thus, these print heads are ignored.

Tab - Setup

There are two modes available:

Serialization

All connected print heads will be filled in series with data. i.e. After each reading in the table moves the record pointer one position. If a print image is printed, immediately read the next record. This mode is suitable for serial numbers or winning codes.

| Print mode |
|---|
| • Serialization - Every label filled with the next data record. |
| O Addressing - All labels filled with one data record. |
| O Serialization by continous increment |

Fig. 179: Setup DB Print

Addressing

The printing process is performed synchronized. It filled all the database fields for all the print heads from one record.

| Addressing options |
|-------------------------|
| ✓ Blank lines |
| Line break at character |
| |

Fig. 180: Addressing options

The print start signal must all write heads are switched simultaneously.

General Settings

| General Settings | | | | |
|-------------------------|--|--|--|--|
| Protect Search function | | | | |
| Uvrite result file | | | | |
| Show reprint list | | | | |
| Show ink level of head | | | | |
| | | | | |
| | | | | |
| Stop signal delay in ms | | | | |
| 250 < > | | | | |
| Feed: | | | | |

Fig. 181: DB Print General Settings

Protect Search function

• Hide the search button on the Production screen

Write result file

• All print results will be logged into a Result file – appear behind the job file.

Check synchronization

• Check the synchronized trigger for Addressing mode, if more than one head is used

Show reprint list

• Gives the possibility to add single data records into a separate list for reprinting

Show ink level of head

• In the status frame for each head the ink level in % will be shown.

Logging

• Interface logging for diagnostics

Stop signal delay in ms

• Delay in ms in order to use the "Warning" contact to stop the machine

Feed

• Size of data queue for each print head (25-50)

Error codes:

- 1 = Photocell trigger without data
- 2 = Unknown error
- 3 = Missing label name
- 4 = Head not exists
- 5 = Timeout stitch device
- 6 = System not ready
- 7 = Checksum error
- 8 = Block number double
- 9 = Not the follow block number

10 = not used

- 11 = Data transmission disturbed
- 12 = Synchronization errors

Start - Stop print job

After opening the print job is the database pointers positioned so that we can start with the last record again.

Use the Start and Stop key.

To put the position explicitly new search feature is available.



Fig. 182: Start the print job

During operation, the data content displayed per print head in the top status window. The main menu and the device status display is turned off during operation.

| ±///// | | | | | | - | |
|---------------|---|--|-----------|-----------------------------------|---|-------------------------|-----------|
| | DBPrint | | | | | | |
| | Production | | | | | | |
| L09561-x2 | U09561-x2 Head: 1 - 31 | 51, | | | | | |
| 192.168.8.106 | | | | | | | |
| | Start Stop | | | | | | Ę |
| | Job file name: 112233.pjob Table name: [taucher] | Record count: Position: | 55 -22 | Prints / sec.: Remaining time: | 0 | Start Time End time: | 14:14 |
| | 14:12:24 Open job: CAUsers/Put 14:14:21 Start job record no.: - 14:14:21 First record: U09561-x2 14:14:26 Stopping 14:14:27 Job stopped record n 14:14:27 Last record: U09561-x2 | blic\idesign\dbprint jobs\112233.pjo 21 Head: 1 - 3151, o: -21 Head: 1 - 3151, | b | | | | |
| | 14:14:42 Start job record no.: - 14:14:42 First record: U09561-x2 | 21 Head: 1 - 3151, | | | | | |
| | - | | | | | | |

Fig. 183: Stop the print job

If the end of print job is reached the process will stop automatically a message comes up.

10. Appendix

Directory structure

The idesign8+ software has the following directory and sub-directories:

| [data] | Example database | | |
|----------------|--|--|--|
| [firmware] | Includes firmware files for the coding systems | | |
| [fonts] | Include fonts | | |
| [label] | Print images | | |
| [userlanguage] | Include language files. | | |
| [logos] | Include the logos for the labels. | | |
| [settings] | Include temporary configuration files. | | |
| [terminal] | Include saved terminal notes. | | |
| [log] | Include saved log files. | | |

User management credentials for user groups

| Credentials |
|--------------------------|
| Start / Stop printing |
| Status view |
| Label Backup access |
| Basic print parameters |
| Change device type |
| Change ink settings |
| Edit IO settings |
| Setup head configuration |
| Edit database settings |
| Edit Labels |
| Backup on USB |
| Create labels from DB |
| Add devices |
| Start / Stop server |
| Change device firmware |
| Check log files |
| General settings |
| Terminal connection |
| USB Firmware |
| View user action log |
| Edit users and groups |
| DB Print access |
| Device User Management |

Own notes

| SKETCH: | | |
|---------|--|--|
| | | |