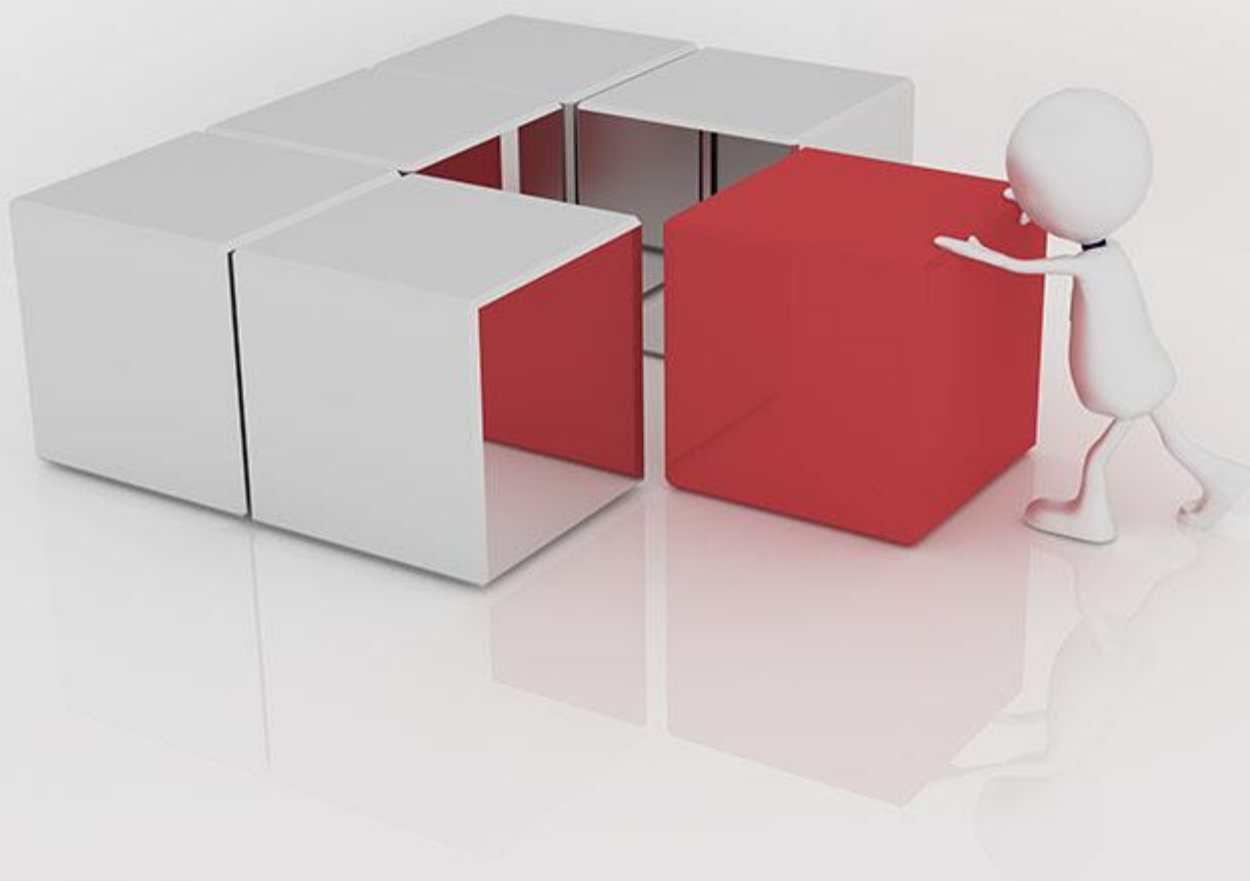


TECHNICAL INFORMATION

naturaSign Pad Colour 2.0



THE OPTIMUM AT THE COUNTER FOR STATIONARY USE

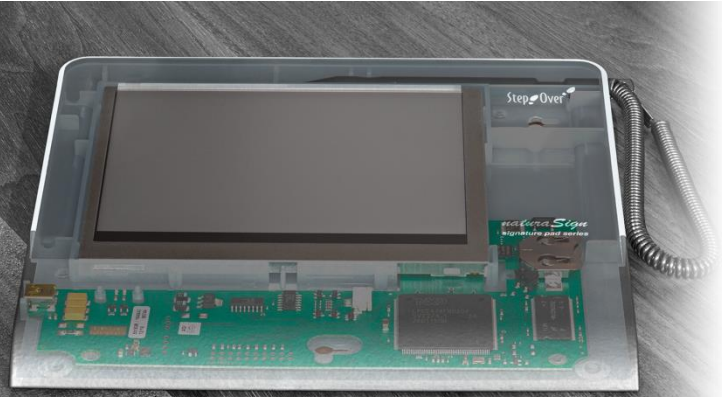
Technical Information of naturaSign Pad Colour 2.0

The naturaSign Pad Colour 2.0 with bright colour screen and USB port is the most advanced model for counter services, developed and manufactured by StepOver - Europe (StepOver GmbH) in Germany.

Specific features:

Because of the extremely flat design (1.2 cm high) the naturaSign Pad Colour 2.0 not only performs well when used on the counter, it also stands out when used on the move.

Thanks to its flat construction, offset sensor surface and lower placement of the screen, and the “turn” button, with which the sign pad, and with it the surface for resting your hand, can be rotated through 180°, so for the first time left-handed as well as right-handed people can find the optimum position for writing: just like writing on a notebook.



The integrated colour screen shows the signature in real time and can be used to view texts, graphics, parts of a document, interactive buttons and a commercial slide show.

The naturaSign Pad Colour 2.0 features a lateral pen holder for secure storage of the pen during transport, as well as a second holder for use at the point of sale, in which the pen can be placed vertically. Development of the “naturaSign Pad Colour Pad 2.0” also involved reworking the pen (modified pen tip and material) in order to improve its life span. The new “naturaPen 2” is securely attached to the casing by means of a tear-proof cord. Also supplied is the new standard BigPen 2 - a pen sleeve newly developed by StepOver that can be clipped firmly onto the naturaPen 2. This creates a considerably thicker pen, which in turn offers greater writing comfort. The pen sleeve is also easy to replace there and then.

The naturaSign Pad Colour 2.0 can now also be secured with a flat Kensington ClickSafe lock.

The highest proof security on the market

Each naturaSign Pad Colour 2.0 is provided with a unique certificate for the digital signing process (2048 bit RSA private key), with which the internal signature creation unit signs the document in a completely safe way. Furthermore, with this certificate the person examining the signed document can precisely assign the signature to a specific signature pad.

Apart from this, the processor of the signature pad contains a public key of a second key pair (RSA 2048 bit), generated by a notary public. By means of this key, the biometric data is already encrypted in the pad. This way, highly sensitive information can never be found in decrypted format in the unsafe “computer” environment (e.g. working space). The private key of this second key pair is safely deposited by the notary public.

The unique safety concept of this StepOver signature pad offers the user the highest possible proof security, since it is the only way they can provably claim they never used the biometric data of the signature for purposes other than intended (e.g. by intercepting and copying the data to another document).

THE OPTIMUM AT THE COUNTER FOR STATIONARY USE



naturaSign Pad Colour 2.0 TECHNICAL INFORMATION

The optional internal tamper-proof date stamp provides each captured signature with a date stamp independent of the computer.

Optional opening recognition helps the operator identify possible tampering.

It is not necessary to install a driver for Win7, Win8, Win10 and Linux. In addition to the screen, the status LED indicates the specific operating mode (Off: no connection; Orange: stand-by; Green: capturing signature).

The device has three holes in the back that enable it to be fixed to a desk or wall. Here you can download the relevant drilling template (mounting holes):

<https://www.stepoverinfo.net/downloads/webseite/drilling-jig-Colour.pdf>

Technical data:

Description	Referring to	Value	Measurement
Material	naturaPen (Pen) and BigPen 2 (Pen sleeve)	POM	Material description
Pen	naturaPen 2 (rounded tip) fastened to casing with spiral cord.	naturaPen 2	Name
Pen sleeve	The BigPen 2 pen sleeve has been newly developed by StepOver, and can be clipped securely onto the naturaPen 2. This creates a considerably thicker pen, which in turn offers greater writing comfort. The BigPen 2 can be re-ordered with GTIN order no.: 4260130060961.	BigPen 2	Name
Material	Casing	Polycarbonate	Material description
Width	Casing	18.5	cm
Depth	Casing	17	cm
Height	Casing	1.2	cm
Kensington Slot for flat ClickSafe locks	The casing has a ClickSafe Kensington slot on the back. This slot is suitable for flat ClickSafe Kensington locks (e.g. model K64637WW). The slot is reinforced inside with a small metal plate. Please pull only with mild to moderate force on the ClickSafe Security Anchor!	Slot for flat ClickSafe Kensington locks with a max. height of 1.28	cm
Width	Surface area of sensor and screen	11.4	cm
Depth	Surface area of sensor and screen	8,5	cm
Width	Active area of sensor	11.2	cm
Depth	Active area of sensor	8.4	cm
Length	Supplied connector cable 1x mini USB to USB	200	cm
Weight	Signature pad without cable	ca. 320	Grams
Temporal resolution	Groups of 4D coordinates (Each group is made up of the coordinates X, Y, pressure and time)	500	Output per second
Temporal definition of the internal measurement	Internal Reporting rate (samples)	7000	Internal measuring rate / 4D samples/sec (14 times oversampling)
Spatial resolution	Definition of the captured X and Y coordinates (without adding some coordinates to other/without interpolation)	1000	DPI
Accuracy of repetition	Accuracy of repetition in X,Y measurements.	+/- 0,1	mm
Display	x- and y resolution of integrated colour screen: Note: The pad screen displays the signature in real time and can be used to show texts, documents and virtual buttons. The LED backlight has an expected MTBF of 50,000 working hours. The screen can, however, be turned off and on again via software (recommended if the device is connected to a switched-on computer outside of working hours e.g. to a computer running 24/7).	640 x 480	pixels
Horizontal viewing angle	Left side / Right side	minimum 60° - typically 70°	°
Vertical viewing angle	Front / Opposite position	minimum 40° - typically 50° - minimum 60° -	°

THE OPTIMUM AT THE COUNTER FOR STATIONARY USE

<p>Standard image resources</p>	<p>The naturaSign Pad Colour 2.0 can be equipped with the following image resources:</p>  <p>Standby mode: If the customer has not loaded a slide show onto the signature pad, the operating mode will show the serial number, FW version, manufacturer's logo and further information.</p>  <p>Optional slide show: In standby mode, advertising images (slide show) can be displayed. The signature pad also has an internal memory for at least four exchangeable advertising images. The advertising images/slide show images can be loaded and changed by the customer.</p>  <p>Standard signature mode: The background images (capture area, bottom; information area, top) can be changed by the customer. Backgrounds are loaded onto the signature pad by default similarly to the image on the left. The text in the information area can be adapted dynamically via the signature software.</p>  <p>Signing in the document: A status bar is displayed at the top of the screen, showing the document page and the "rotate" button (provided this has not been deactivated by the customer).</p>  <p>Document view: A status bar is displayed at the top of the screen, showing the document page, browse and zoom buttons, and the "rotate" button (provided this has not been deactivated by the customer). A button on the bottom edge commences the signature capture. This button can be hidden by the customer.</p> <p><small>(Documents, signatures and advertising images are merely for illustration purposes.)</small></p>	<p>typically 70°</p>	<p>-</p>
<p>Measurement of pressure</p>	<p>Maximum number of differentiated pressure levels.</p>	<p>1024</p>	<p>Levels of pressure</p>
<p>Minimum pressure</p>	<p>Lowest measurable writing pressure.</p>	<p>1</p>	<p>Newton</p>
<p>Maximum pressure</p>	<p>Highest measurable writing pressure.</p>	<p>10</p>	<p>Newton</p>
<p>Connection</p>	<p>Standard Mini-USB</p>	<p>Plug</p>	<p>-</p>
<p>Energy Use</p>	<p>Very low power consumption protects the environment and extends the battery time of Notebooks.</p>	<p>ca. 500</p>	<p>mAh</p>
<p>Type of transmission</p>	<p>Encrypted HID. This device does not require an HW driver. It is directly recognised by Windows/Linux similarly to a mouse or keyboard. Can be switched to serial transmission via USB (for port forwarding at the Thin Client). Driver for Windows, Windows Embedded and Win CE optionally available. Also compatible with Linux and Thin-OS.</p>	<p>USB/HID Can be switched to VCom</p>	<p>USB 2.0 (USB 1.1 compatible)</p>
<p>Encryption Algorithm</p>	<p>Name of the standard cryptographic algorithm used for the transfer of data.</p>	<p>RSA 2048 bit AES 256 bit</p>	<p>-</p>
<p>Opening recognition (optional)</p>	<p>Opening recognition must be requested upon placing the order (subject to surcharge). It cannot be activated subsequently, as it requires an internal battery that supplies the internal memory with power. This internal memory unit holds a key that is unique to each pad, so long as it is supplied with power. If the casing is opened, the power supply is interrupted and the key is deleted. The next time it is switched on, the firmware integrated into the main processor ascertains that the key for the volatile memory is no longer equivalent to its own, and thus that the signature pad may have been tampered with. If the signature pad should exceed the life span of the battery, this can be renewed by StepOver. In this regard, the device is also</p>	<p>Optional function</p>	<p>Subject to surcharge – only when ordered ex works.</p>

THE OPTIMUM AT THE COUNTER FOR STATIONARY USE



naturaSign Pad Colour 2.0 TECHNICAL INFORMATION

	checked for integrity (interference) and the alarm is reset.		
Date stamp (optional)	The UTC/GMT date stamp must be requested upon placing the order (subject to fee). It cannot be activated subsequently, as it requires an internal battery that supplies an internal clock with power. The date stamp may deviate by one day per year, but can be set with an Internet connection of the processor with the aid of StepOver software. The software builds a secure (end-to-end encrypted) connection between the signature pad and the StepOver time server, which transmits the current time to the signature pad. If the signature pad should exceed the life span of the battery, this can be renewed by StepOver.	Optional function	Subject to surcharge – only when ordered ex works.
Battery	Button cell (Li-MnO ₂). The button cell is required for the optional functions of “opening recognition” and “date stamp”. Signature pads that are not equipped with these functions ex works might contain no battery.	CR2032	Type
Working temperature	Temperatures at which the pad will function according to what is specified here.	0 to +50	°C with a max. of 90% RH without condensation.
Storage temperature	Temperatures at which the device can be transported and stored.	-10 to +80	°C with a max. of 90% RH without condensation.
Meets	Certificates / licences	CE, WEE	-
Software compatibility	In order to use this product fully, you will need a version of the following software that has, at the minimum, the same version number or higher.	eSignatureOffice from version 4.10 SimpleSigner from version 6.8 Device-API from version 5.5	-
Quality control / per device	Quality control and safety tests for all devices. The test protocols are linked to the serial number of the device and the coded initials of person who carried out the tests, and are available, free of charge, for our clients on request.	Testing of each device: Operation and margin for error in measurements	1/1
General quality control measures	Selection of component providers and documented production cycles. StepOver GmbH only works with ISO certificated providers and works according to ISO regulations	EN ISO 9000 ff	-
Identification / serial number	Each signature pad of this type has been given a unique serial number. The serial number can be found from the device's firmware and read on the display after insertion. There is also the option to add the serial number in figures for projects over 500 units and fix it as a barcode on the back of the device (subject to cost).	Code 39	Barcode type (Optional / Subject to surcharge – only when ordered ex works)
Recycling	This product can be almost entirely recycled. The parts, such as the casing, etc. are marked with information about the materials used.	WEE- Registration number	DE 27870259
Protecting the environment	For every signature pad sold, StepOver makes a donation to promote the planting of new trees. As of the end of 2014, a total area of 1.5 million m ² has been planted in several projects across the world!	CO2 Neutral emissions	-
Manufacturer	StepOver Europe	StepOver GmbH Otto-Hirsch-Brücken 17 70329 Stuttgart Germany	Address
Country in which it is produced	Country in which the development, manufacture and quality control takes place.	Germany	Made in Germany
Accessories included	Standard Accessories.	Mini-USB-cable, BigPen 2 pen sleeve, multiple languages	Per 1 unit
Order number	GTIN article number.	GTIN	4260130060978

THE OPTIMUM AT THE COUNTER FOR STATIONARY USE



Original product:



Important note:

This product is protected by property rights and national and international patents.

We reserve the right to make technical changes that result in an improvement in the functioning of the device.

All names and trademarks are property of their respective owners.

The content and structure of this documentation are protected by copyright. The use of information, data, and especially of images, texts or sections of text without the express permission of StepOver is not permitted.

It is important that the indications given in the operating and security instructions are followed. The operating instructions can be found in the following electronic manual www.StepOverInfo.net/MAN.

This product is not available for import, distribution or use in the USA. For products designated for the US market, contact StepOver Inc. www.StepOver.com/us.

Copyright StepOver GmbH 2015