PRESTO SPECTRO

SPECTRO-Ddensitometer

Advanced LED Technology - Use 24/7/365 WITHOUT Recharging

The Industry's Most Affordable Spectro

L*a*b*

Delta E

NEW! SCTV
SPOT COLOR
TONE VALUE

- Density
- Dot Gain
- Dot Area
- Gray Balance
- Color Match
- Opacity

Measure Prints & Plates

IN / OUT of Tolerance

Traffic Lights

GO

STOP

FREE 10-Day Trial

BETA INDUSTRIES
The Quality Control Company

Tel: 800-272-7336 (U.S.), 201-939-2400
Email: sales@betascreen.com
www.betascreen.net

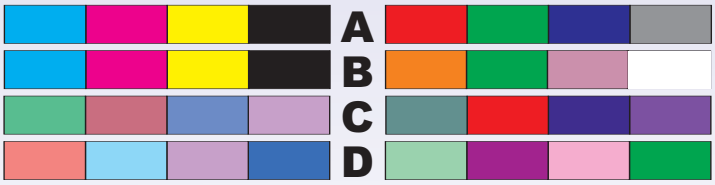
PRESTO SPECTRO

SPECTRO-DENSITOMETER

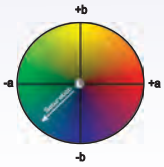
Easy, Advanced, Affordable

Color Reference Library

The Presto Spectro will store 32 color references, organized in 4 Volumes (A,B,C,D), each with 8 Colors. The Auto Mode recognizes each of the 8 colors in a Volume when a sample is measured in Density mode or Delta E.

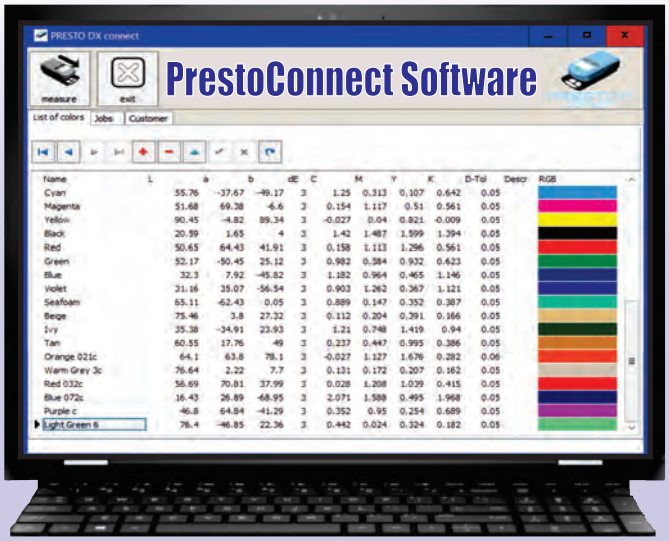


Memorize any color from multiple sources



The Presto Spectro is ideally suited for 8 color offset or flexo. Volume A is CMYK plus RGB, Gray Balance or spot color. Volume B is CMYK plus OGV and White ink Volume C and D are any random colors on a job.

Create, Collect & Manage Unlimited Colors with the PrestoConnect Color Library Software



The database organizes by Color, Customer and Job Date for ease of use and convenience

Technical Specifications

Density Range .....0.00 - 2.50
Density Repeatability .....+/- 0.003
Percent Dot Area 0-100%
Measuring Time .....0.1 sec.
Linearity .....+/- 1%
Light Source .....Multi LED's
Measuring: De 2000&76, Lab, Lch, gray balance, density, dot gain, trapping, SCTV, opacity

Filters.....Status T or E
Measurements / Battery Set .....>50,000
Power Source .....4-1.5V AA Alkaline Batteries
Apertures .....2mm, 3mm.
Weight .....9.5 oz. [269 grams]
Dimensions.5.475x2.75x1.6in.[139x70x40mm]
Housing .....High impact shielded case

PRESTOConnect User Manual

Content

Introduction 1
Safety Instructions 2
Warning 2
General safety rules 2
Installation 2
Installing the PRESTOConnect software 2
DRIVER without digital signature 2
Run the PRESTOConnect Application 2
Configuring the PRESTOConnect Software to your needs 3
PRESTOConnect Database 6
The color database 7
Adding colors by measuring 7
The Customer Database 8
The Job Database 9
Configure the PRESTO SPECTRO using the PRESTOConnect software 11
Preparing reference colors for a book 12
Downloading reference data to a book of the PRESTO SPECTRO 12

Introduction

Congratulations! You have just purchased the PRESTOConnect color database software to be used with the PRESTO SPECTRO Spectrodensitometer.

The PRESTOConnect Software helps you to manage colors by jobs. Use the PRESTOConnect Software to upload information from the PRESTO SPECTRO Spectrodensitometer and download color specifications to the PRESTO SPECTRO Spectrodensitometer. Configure the Device for the jobs that you are working on.

Important: *This manual describes the current version of the PRESTOConnect software. Future enhancements or modifications may be added later.*

PRESTOConnect User Manual

Safety Instructions

Warning

For safety reasons it is absolutely necessary to read through the user's guide as well as all of the instructions.

General safety rules

If the safety recommendations and instructions in this User Guide are not complied with, measurement errors, data loss, physical injury or property damage may result

Installation

Start your Computer and wait until all boot processes have finished and your computer is ready to operate. **Do not plug in the USB cable at this time.**

Download the Installer from www.peret.it

Install the PRESTOConnect software

Do not plug in the USB cable before the PRESTOConnect Software has been installed.

Start your Computer and wait until all boot processes have finished and your computer is ready to operate. Run the setup-PRESTOconnect-vxxx.exe application to install the PRESTOConnect Software on your PC and follow the instructions.

Once the setup is ready, you can connect the PRESTO SPECTRO to a USB 2.0 port. Wait until Windows has completely installed the driver.

DRIVER without digital signature

On Windows 8.1 or Windows 10 there is the possibility of an error message that the "PERET USB Driver does not have a digital signature". In this case it is necessary to boot your Windows in a special mode to enable the driver installation. Instructions can be found at https://www.youtube.com/watch?v=71YAIw7_-kg

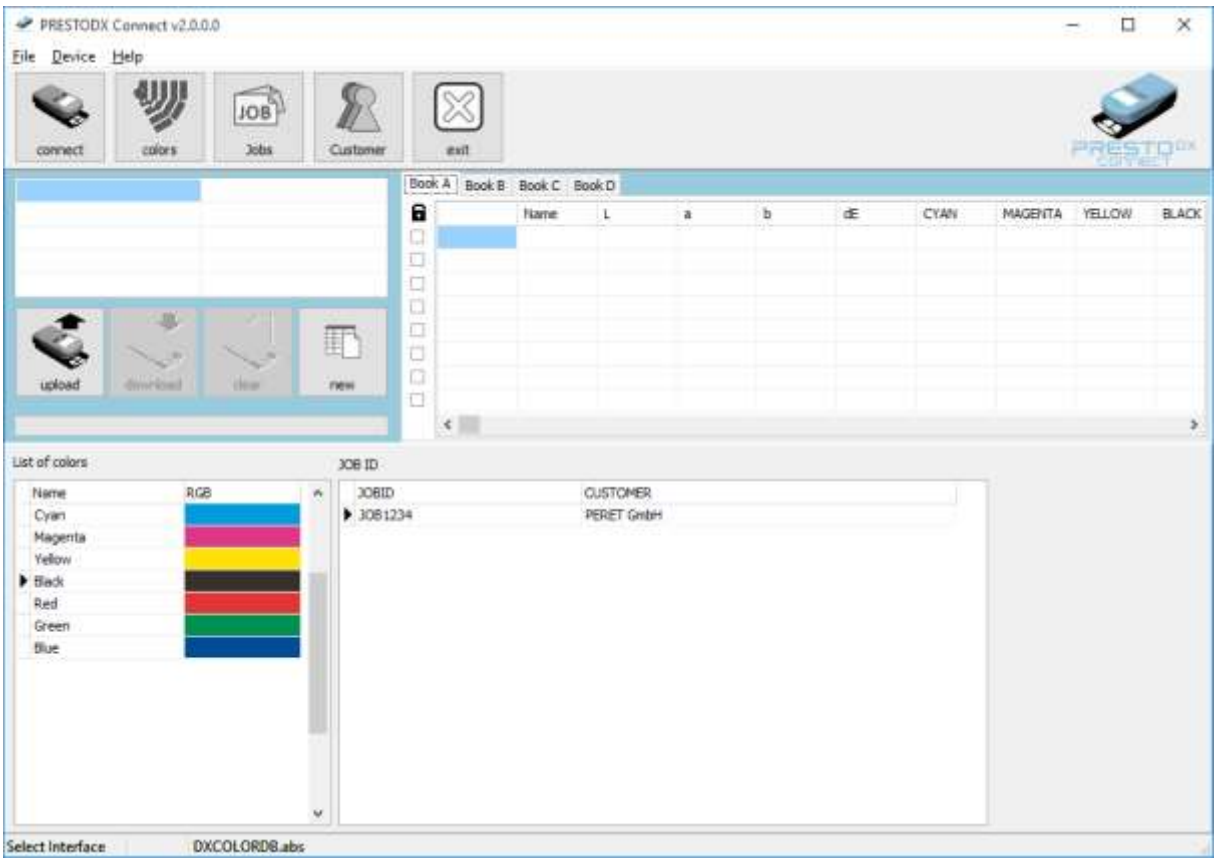
- Hold down the shift key and restart your computer
- Select the "Troubleshoot" option.
- Select "Advanced" options
- Select Startup Settings
- Click RESTART
- Press the number 7 key on your keyboard (Disable driver signature enforcement)
- Windows will restart and the driver will now be installed correctly.
- Use the device manager to update the driver PERET USBDRV.inf located in the PRESTOConnect folder.

Run the PRESTOConnect Application

Connect the PRESTO SPECTRO via USB cable to your PC.

Click the PRESTOConnect Icon on your desktop

PRESTOConnect User Manual

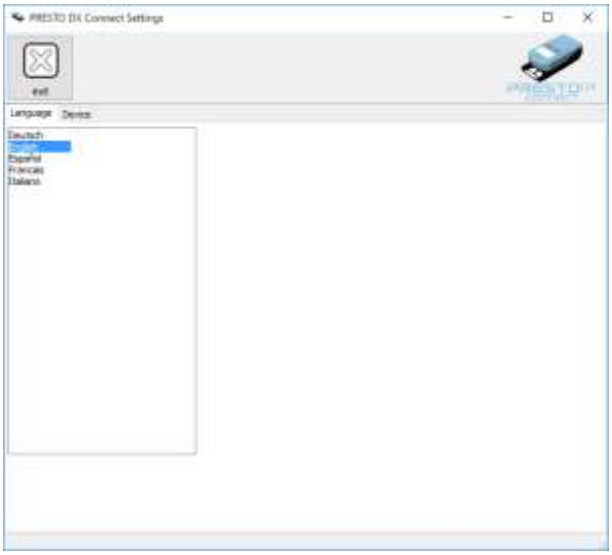


Configure the PRESTOConnect Software to your needs

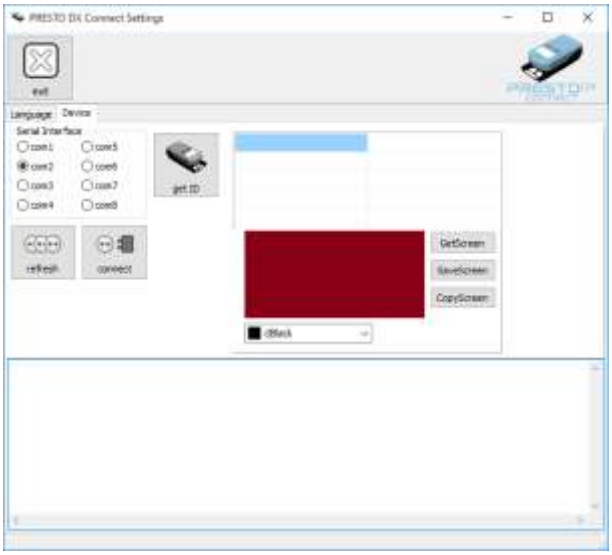
Open the Settings from the File/Settings Menu.

Select the language on the language Page

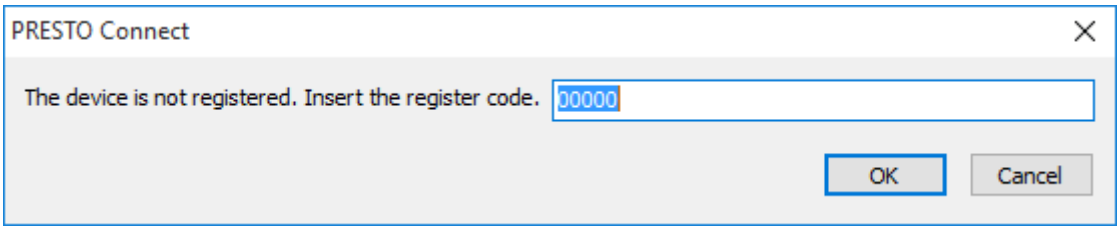
PRESTOConnect User Manual



Select the Device Interface parameters from the Device Page. Select the COM port and click connect.

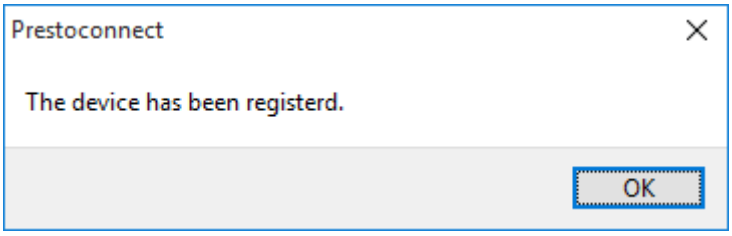


Click *refresh* and *connect* to connect to the PRESTO SPECTRO. Click *get ID* to register the PRESTO SPECTRO.



Insert the registration code and click OK.

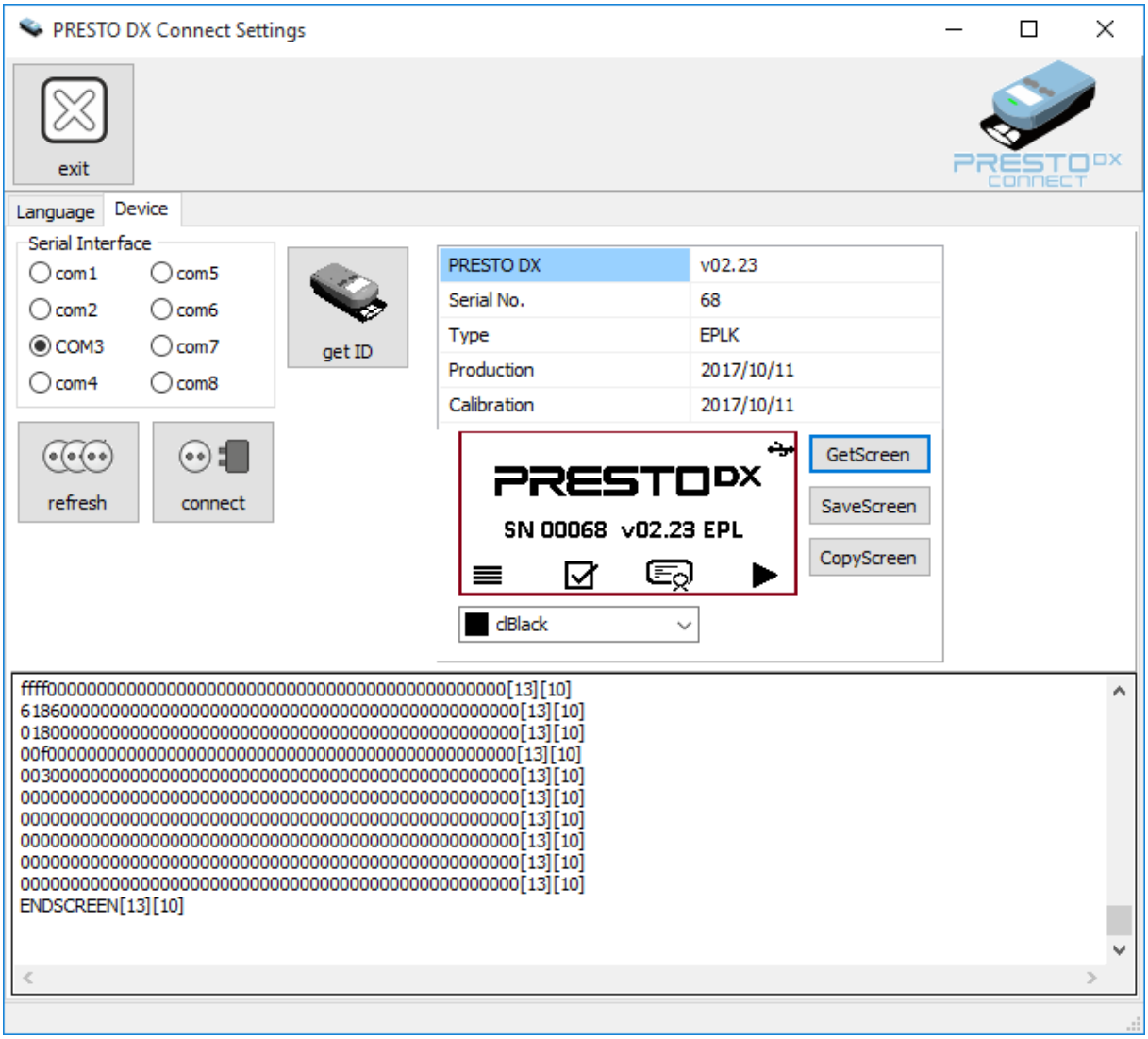
PRESTOConnect User Manual



The PRESTO SPECTRO now is registered and the upload/download functions are enabled. Once the device is registered you can connect to the device by clicking the connect icon on the main screen.

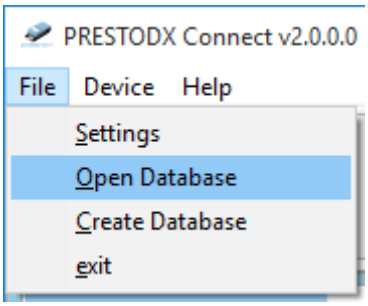
The Device Page of the Settings Window offers also functions to upload a screen shot of the current PRESTO SPECTRO screen. Click *GetScreen* to upload the screen. Click *SaveScreen* to save the current screen shot to a Windows Bitmap file. Click *CopyScreen* to copy the current screen shot to the Windows Clipboard.

PRESTOConnect User Manual



PRESTOConnect Database.

The PRESTOConnect stores colors, jobs and customer details in a database.



Select *Open Database* to open an existing database. Select *Create Database* to create and open a new database.

The database is composed of three tables

- Color Database

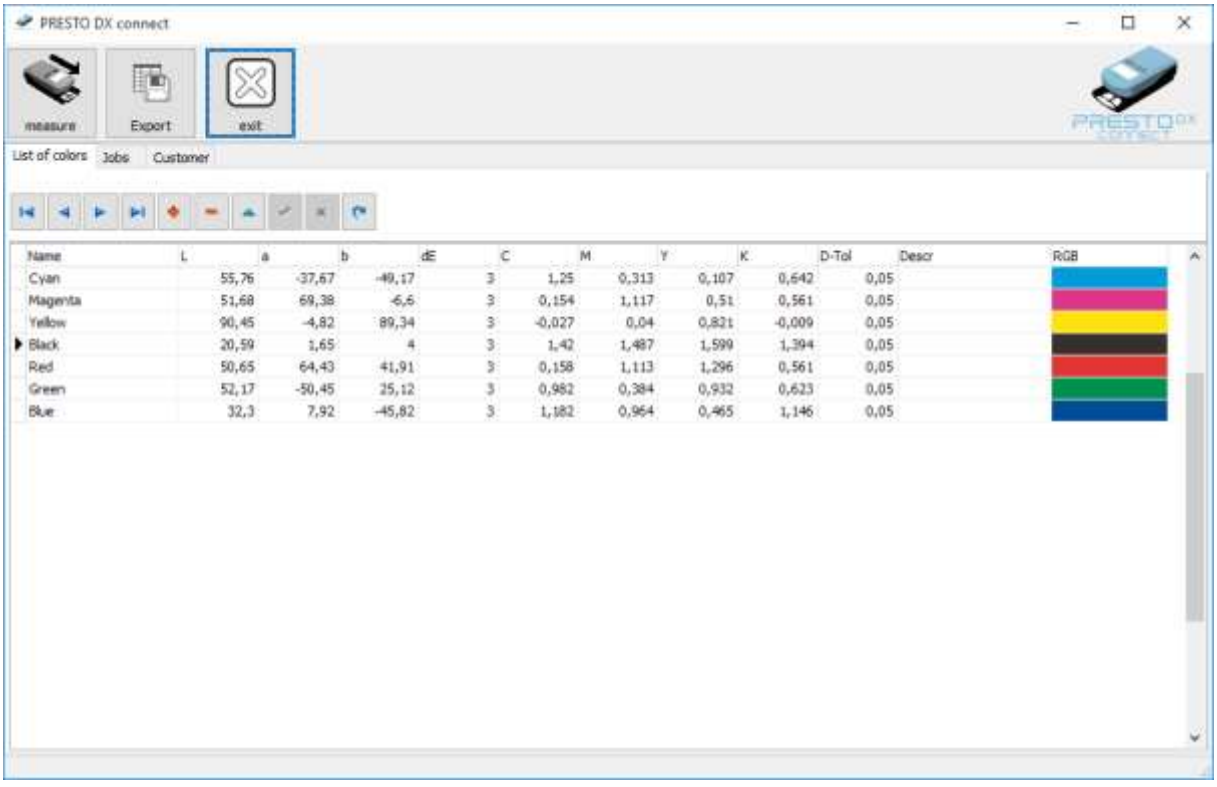
- Job Database
- Customer Database

Any database can be exported to an EXCEL Sheet by clicking the Export Icon in the database Window

The color database

The PRESTOConnect Software can store as many colors as required in a color database. Click the *colors* icon to open the color database.

Any color record in the colors database is defined by Lab values with delta E tolerance and CMYK densities, including the density tolerance.



Name	L	a	b	dE	C	M	Y	K	D-Tol	Descr	RGB
Cyan	55,76	-37,67	-49,17	3	1,25	0,313	0,107	0,642	0,05		
Magenta	51,68	69,38	-6,6	3	0,154	1,117	0,51	0,561	0,05		
Yellow	90,45	-4,82	89,34	3	-0,027	0,04	0,821	-0,009	0,05		
Black	20,59	1,65	4	3	1,42	1,487	1,599	1,394	0,05		
Red	50,65	64,43	41,91	3	0,158	1,113	1,296	0,561	0,05		
Green	52,17	-50,45	25,12	3	0,982	0,384	0,932	0,623	0,05		
Blue	32,3	7,92	-45,82	3	1,182	0,964	0,465	1,146	0,05		

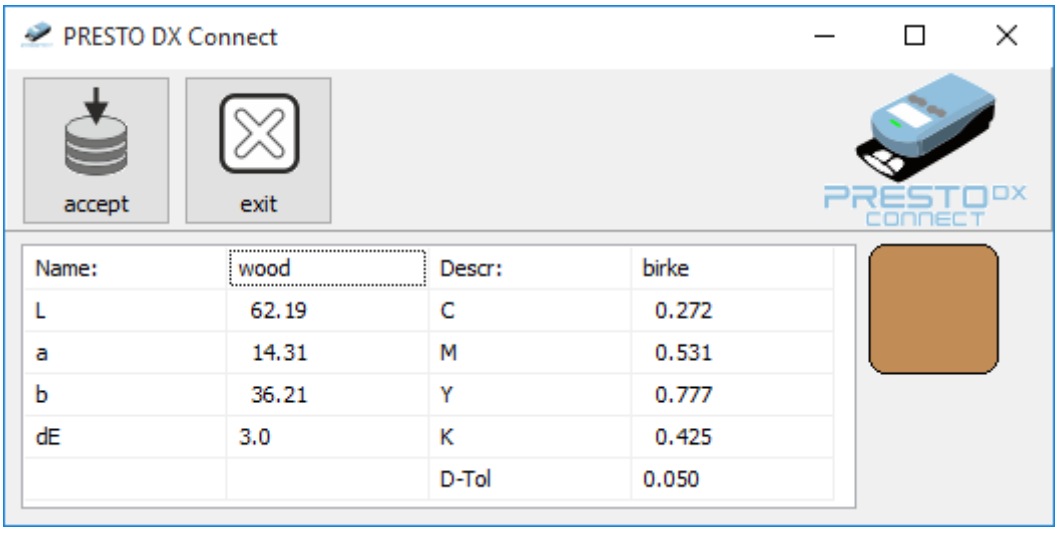
A color can be added by adding a record and inserting the reference values and name.

Add colors by measuring

Colors can be added as well by measuring a physical sample. Click the *measure* icon to open the measurement Window.

PRESTOConnect User Manual

Measure the sample.

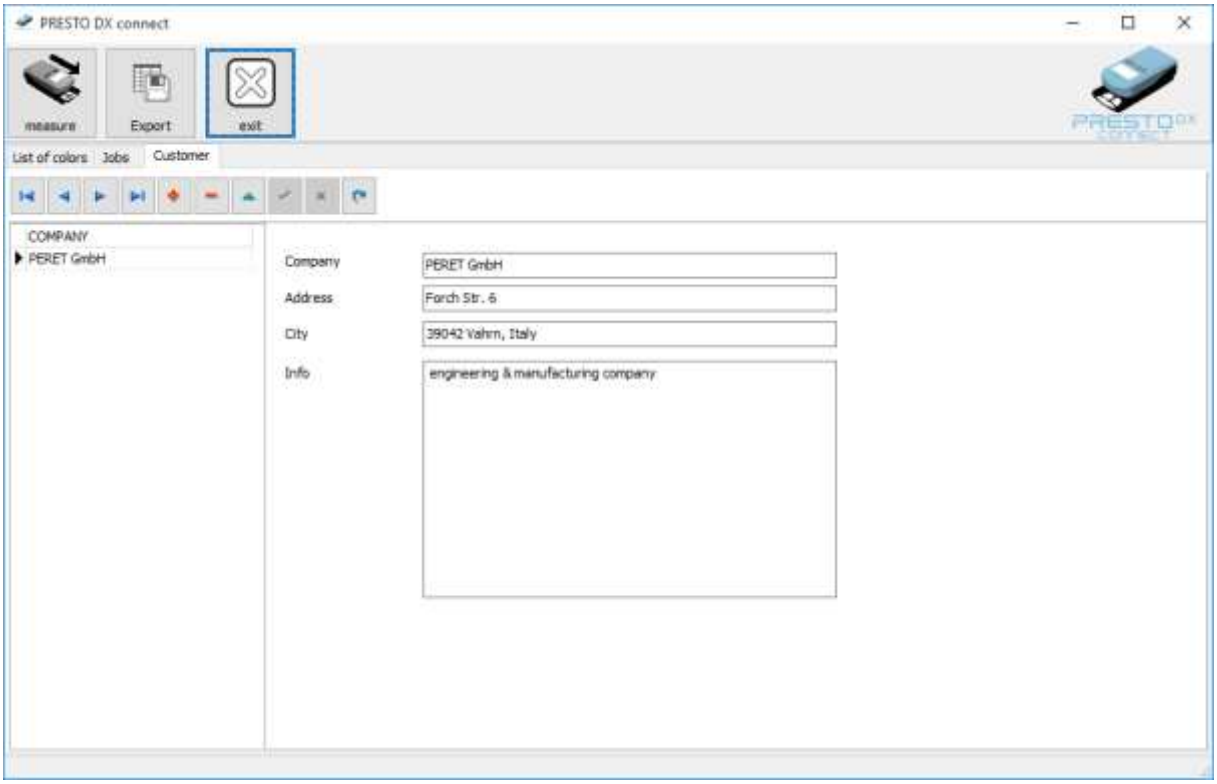


Insert the name and description for the color and click the *accept* icon to add the measurement to the database.

The Customer Database

Click the *Customer* Icon on the main screen to open the customer database

PRESTOConnect User Manual



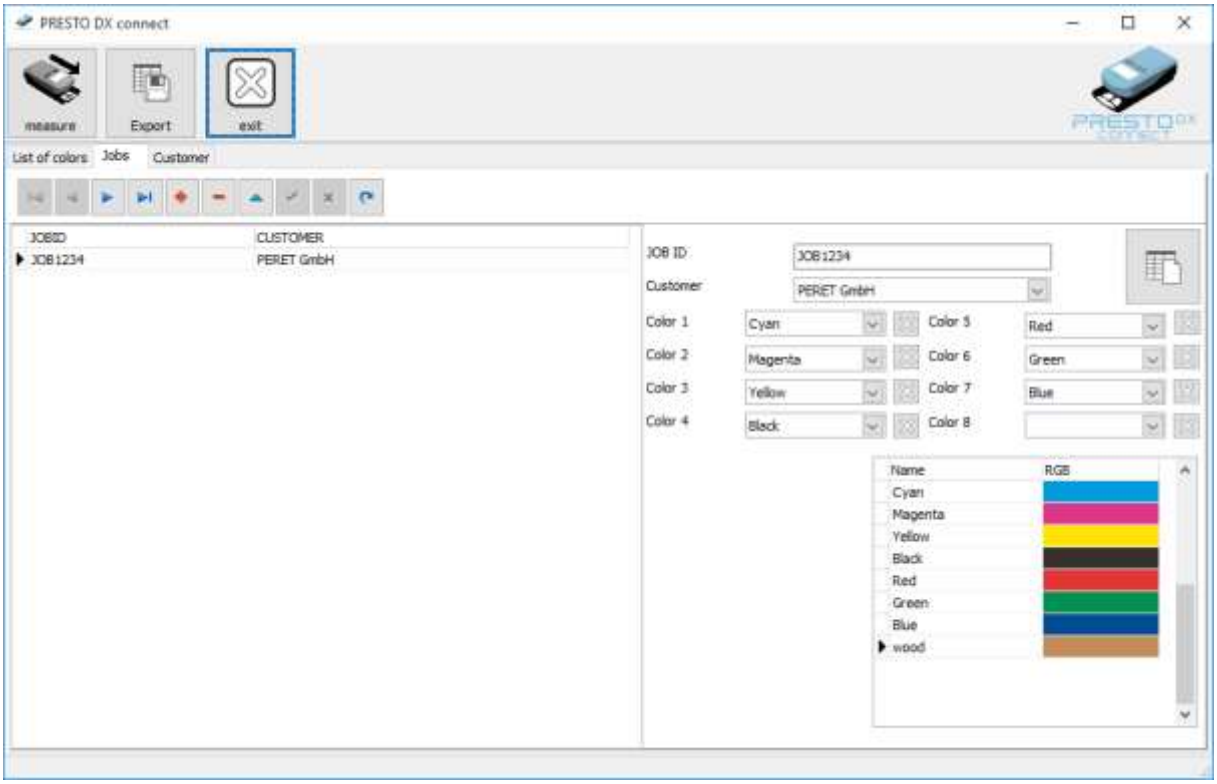
The Job Database

The PRESTO SPECTRO offers 4 color books with 8 colors each in its internal memory. The PRESTOConnect Software can be used to download a Job into one of the 4 books.

A Job is composed by up to 8 color specifications and assigned to a customer.

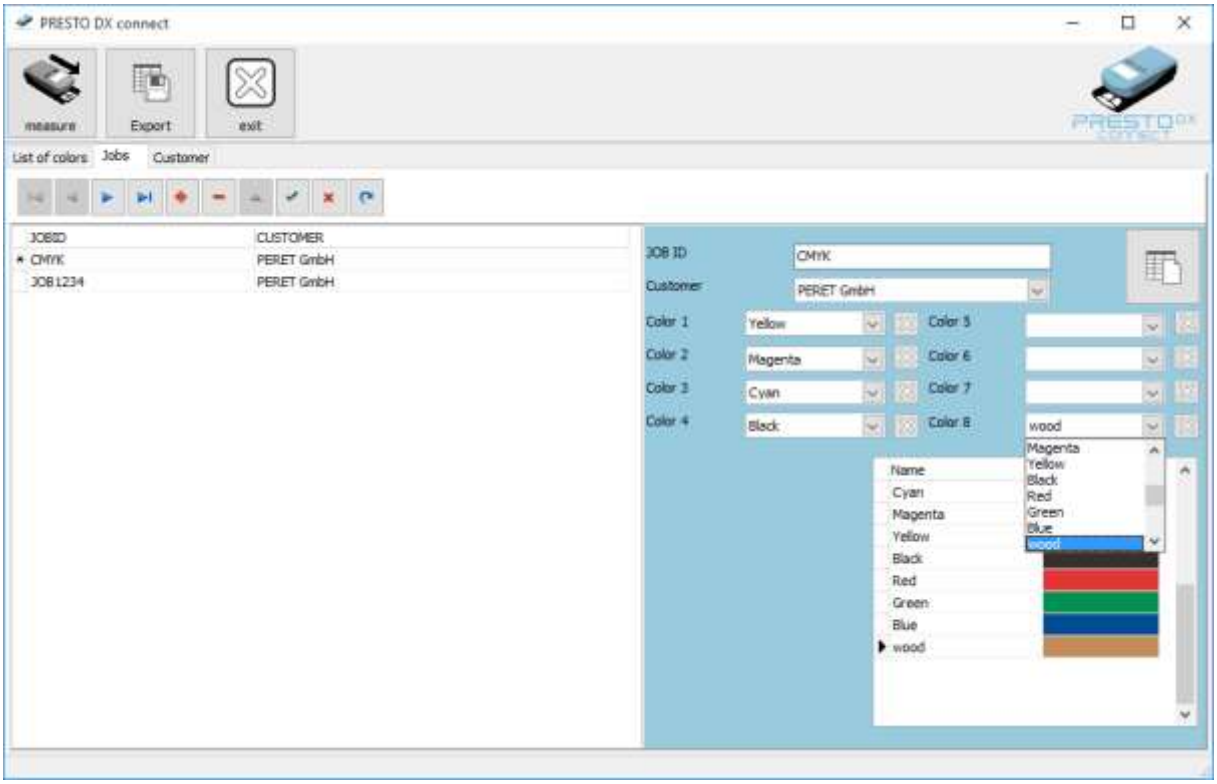
Open the Job Database by clicking the *Jobs* Icon on the main screen.

PRESTOConnect User Manual



Create a Job by clicking the Icon. A new record will be created in the database. Insert the Job ID and select a customer from the customers database.

Now select up to 8 colors from the drop down list or by drag&drop from the colors list.



Click the Check Icon to permanently save the job in the database.

Configure the PRESTO SPECTRO using the PRESTOConnect software

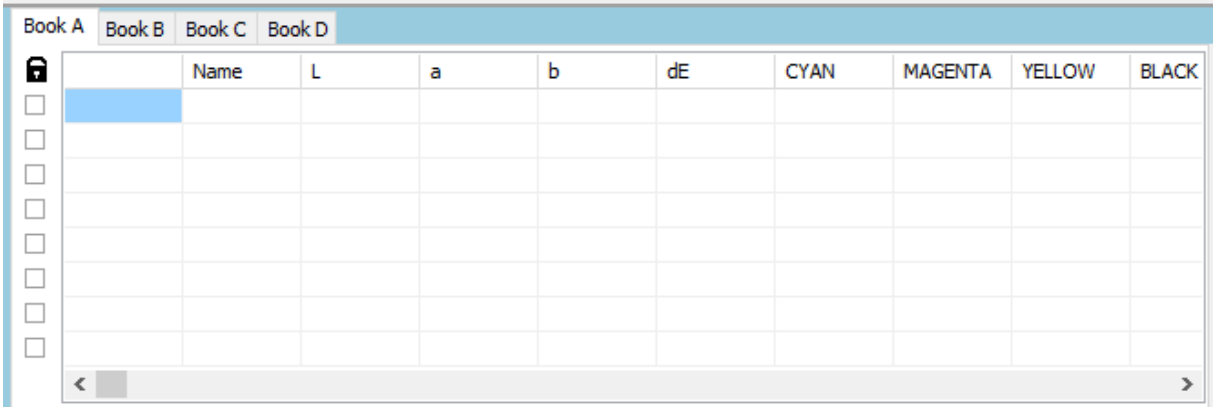
Click the *connect* Icon to connect the PRESTO SPECTRO to the software

The PRESTOConnect will read out the PRESTO SPECTRO details and display them in a table.

PRESTO DX	v02.23
Serial No.	68
Type	EPLK
Production	2017/10/11
Calibration	2017/10/11

In case your device has not been registered, you will be prompted to enter the registration code.

Select the Color Book page Book A, Book B, Book C, or Book D.



Click the *upload* icon to upload the current color references of the currently selected color book.

Click the *new* icon to clear the table of the current color book

PRESTOConnect User Manual

Click the *clear* icon to empty all reference books in the device.

Prepare reference colors for a book

Select a color book page.

Drag&drop a Job from the *JOB ID* table to the *Book* table. All colors will automatically be copied to the table.

Drag&drop a color from the *List of Colors* table to a row of the *Book* table to add a color to a book.

Book A | Book B | Book C | Book D

	Name	L	a	b	dE	CYAN	MAGENTA	YELLOW	BLACK
☑	Cyan	55,76	-37,67	-49,17	3	1,25	0,313	0,107	0,642
☑	Magenta	51,68	69,38	-6,6	3	0,154	1,117	0,51	0,561
☑	Yellow	90,45	-4,82	89,34	3	-0,027	0,04	0,821	-0,009
☑	Black	20,59	1,65	4	3	1,42	1,487	1,599	1,394
☑	Red	50,65	64,43	41,91	3	0,158	1,113	1,296	0,561
☑	Green	52,17	-50,45	25,12	3	0,982	0,384	0,932	0,623
☑	Blue	32,3	7,92	-45,82	3	1,182	0,964	0,465	1,146
☐	wood	62,19	14,31	36,21	3	0,272	0,531	0,777	0,425

Check any color that you wish to change or modify. Any color can be modified by taking a measurement, unless the color is looked.

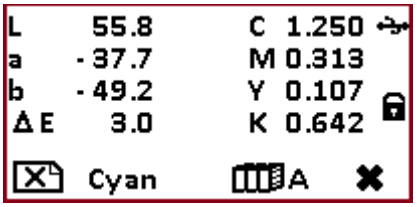
Downloading reference data to one of the PRESTO SPECTRO books

Click the download icon to download the reference color specifications in the current book page to the proper book of the PRESTO SPECTRO

The PRESTO SPECTRO will automatically select the book and AUTO color detection.

The reference data is now available on the device

PRESTOConnect User Manual



If a color specification is “locked”, a lock icon is displayed. Locked color references can not be overwritten by measuring.

PRESTOConnect User Manual

BETA CONTACT INFORMATION

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BetaColor Presto Spectro (Spectro-Densitometer) (direct website link)

Email: sales@betascreen.com

Direct Technical Support: larry@betascreen.com

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