InkZoneMove User Guide

Find more information about the product on our website:
http://www.digiinfo.com

Digital Information
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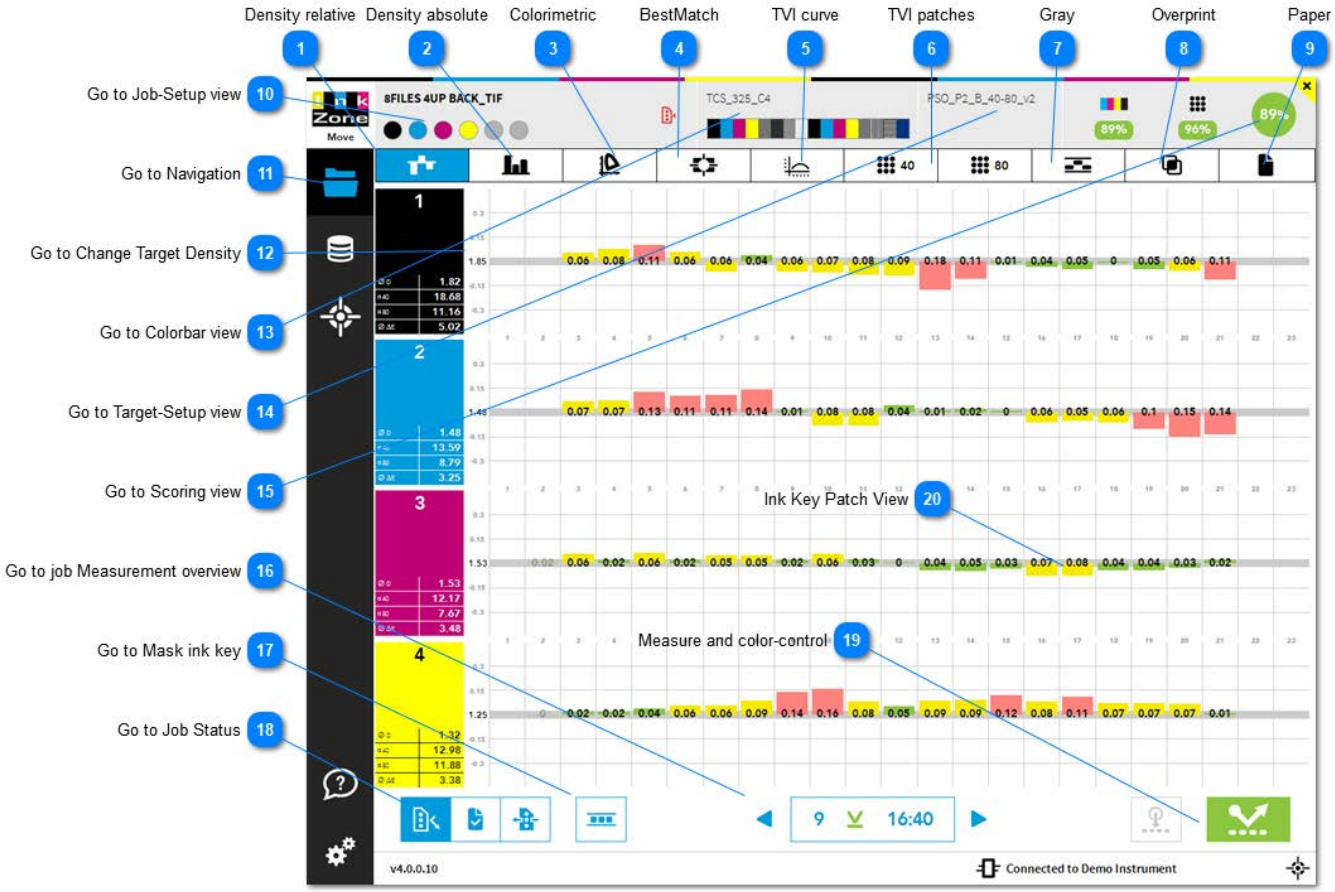


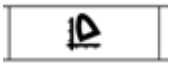
Density relative

See chapter 1.1.2 Density Relative View

Density absolute

See chapter 1.1.3 Density Absolute View

Colorimetric



See chapter 1.1.4 ColoriMetric View

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11 **Go to Navigation**

Navigate from here to the job setup, reporting etc. pages
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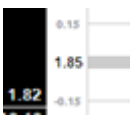
12 **Go to Change Target Density**

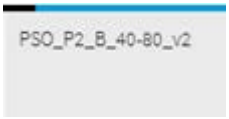


Click on the unit number and change target density
See chapter 1.1.2.1. Change target density for all keys

13 **Go to Colorbar view**

See chapter 1.1.3. Colorbar view

14 **Go to Target-Setup view**



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See chapter 1.1.5. Scoring view

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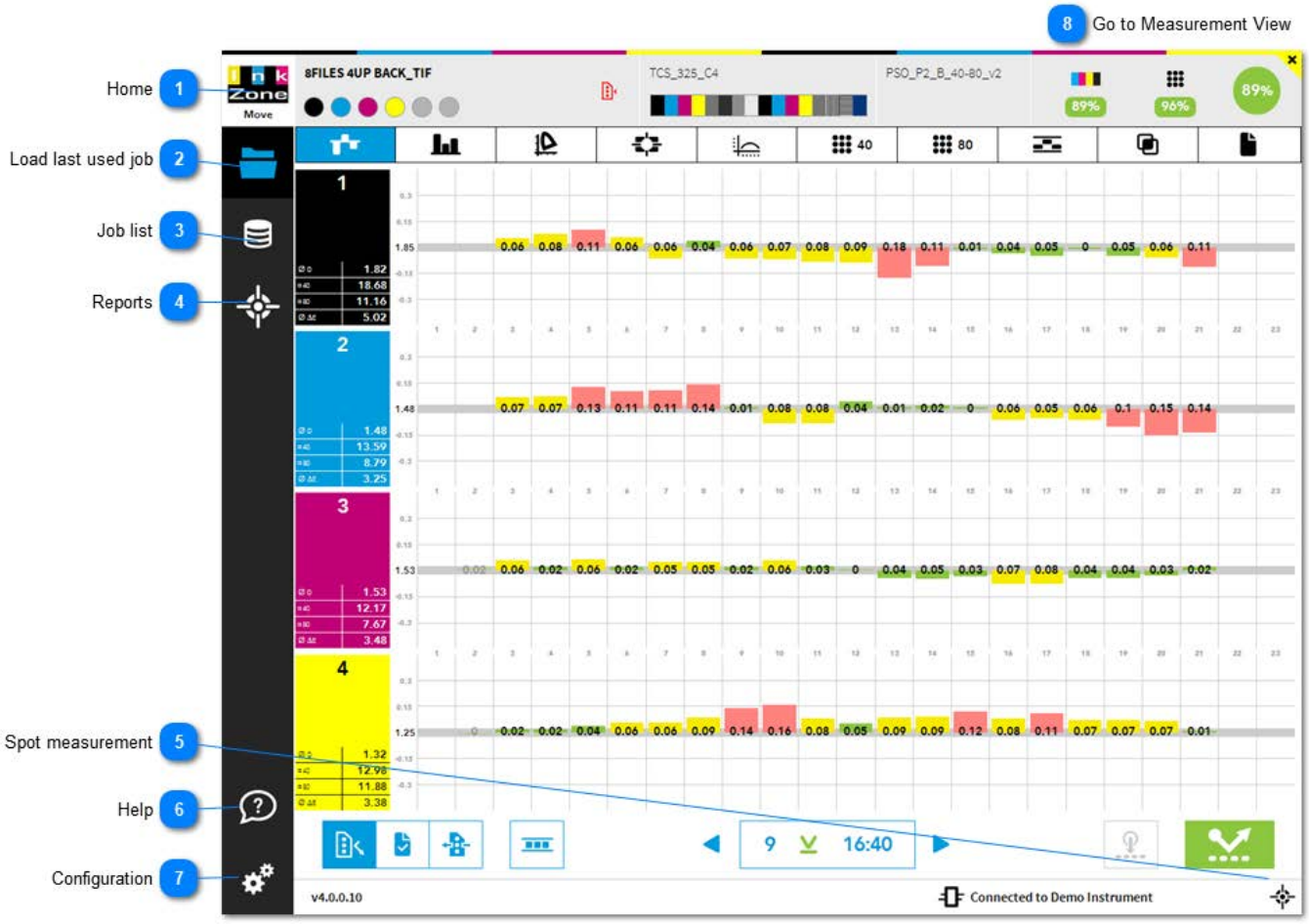
See chapter 1.1.14. Ink-Key Patch View

1.1.1. Navigation Bar



1 Home

Click on the logo to return to the home screen

2 Load last used job

Loads the last used job

3 Job list

Loads the job list

4 Reports

Displays the job reports

5 Spot measurement

Changes to the spot measurement window, see here 1.1.16. Spot Measurement

6 Help

Context sensitive help button. Shows a help page for the currently active screen.

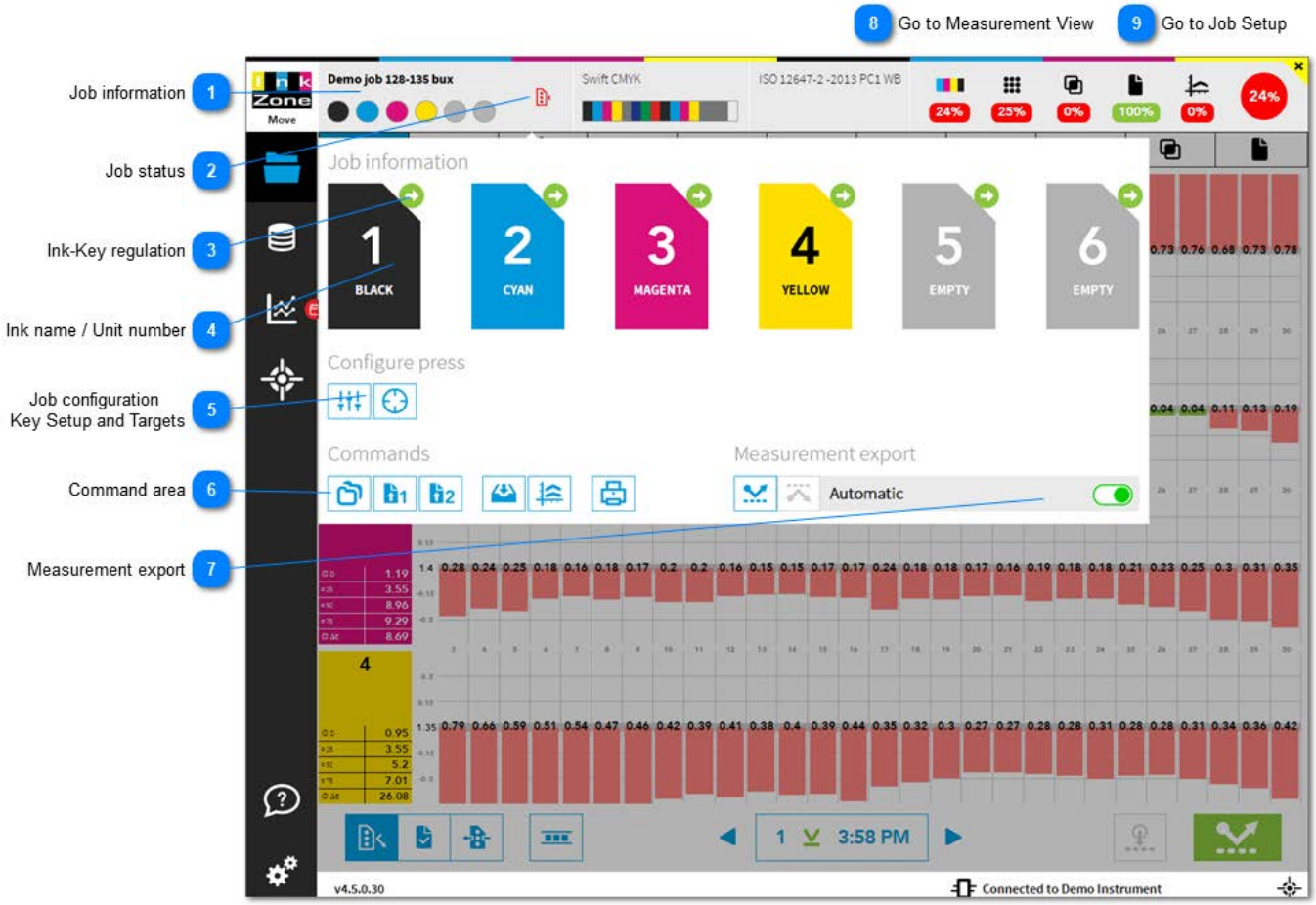
7 Configuration

Opens up the software configuration page.

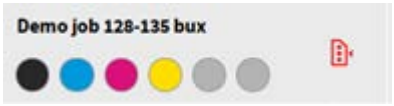
8 Go to Measurement View

1.1. Measurement view

1.1.1.1. Job Setup and Commands



1 Job information



A click here opens the setup information view from the current job.

2 Job status

Indicates job status as MakeReady / OK-Sheet / Production
Change job status, see here: 1.1.12. Job Status

Status MakeReady

Status OK-Sheet / Production

3 Ink-Key regulation

In the job setup screen click on the unit to display the ink-key regulation modifier.
See here: 1.1.1.1.1. Ink-key Regulation modifier

4 Ink name / Unit number

Displays the ink name and its unit number

5 Job configuration Key Setup and Targets

Select predefined ink-key groups.
See here: 1.1.2.4. Change Target Density with <Group Ink-Keys> feature

Set color targets and ink-key mask from existing job, see here: 1.1.1.1.2. Targets from Existing Job

6 Command area

Click on the logo to return to the home screen

Clone current job

Set current job setup as template nr. 1.
A job template reuses targetset, colorbar, print sequence and machine setting

Set current job setup as template nr. 2.
A job template reuses targetset, colorbar, print sequence and machine setting

Create an archive jobs in InkZonePerfect

Creates an ink-preset linearization job in InkZonePerfect

7 Measurement export

Activate the automatic measurement data export such as SVF etc after every scan.

Data from units before perfector

Data from units after perfector

See setup here: 1.2.8. Data Export Setup

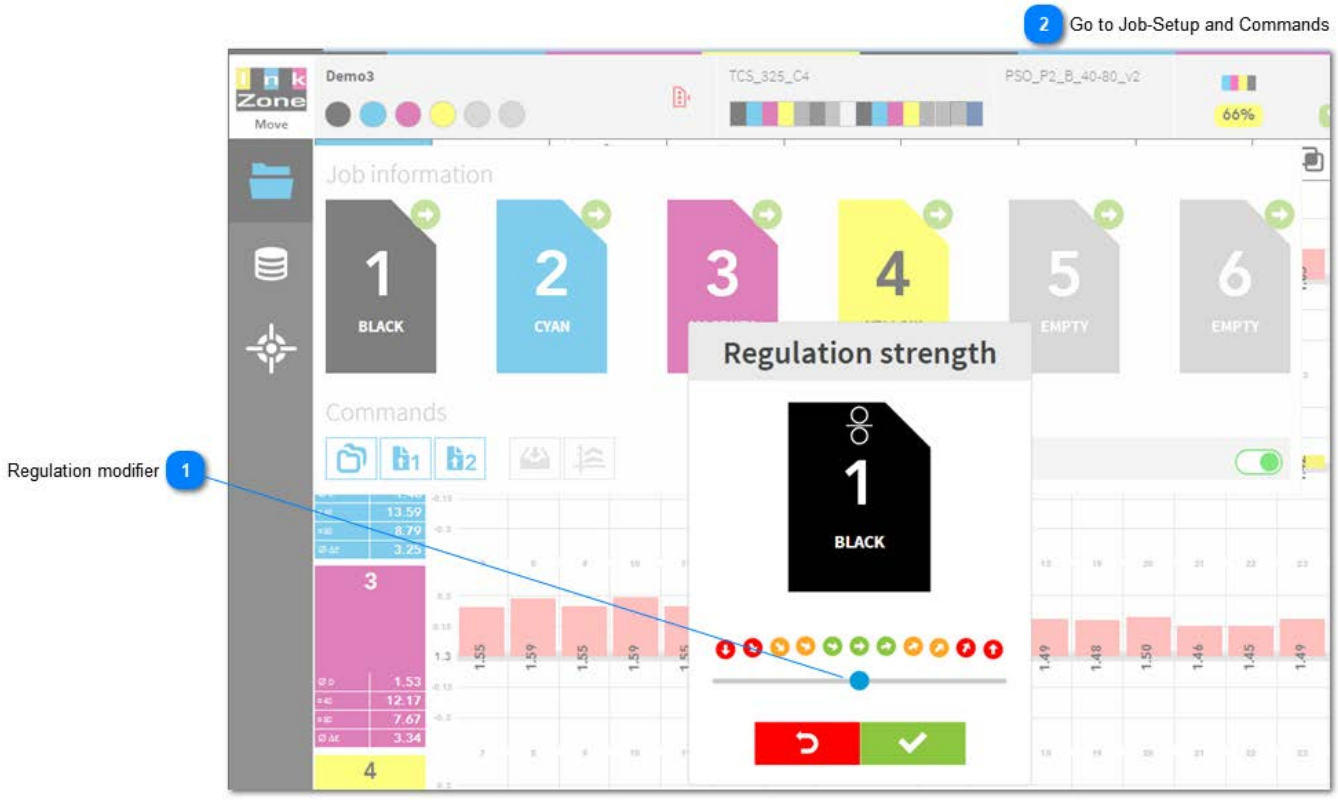
8 Go to Measurement View

1.1. Measurement view

9 Go to Job Setup

1.3.2. New Job

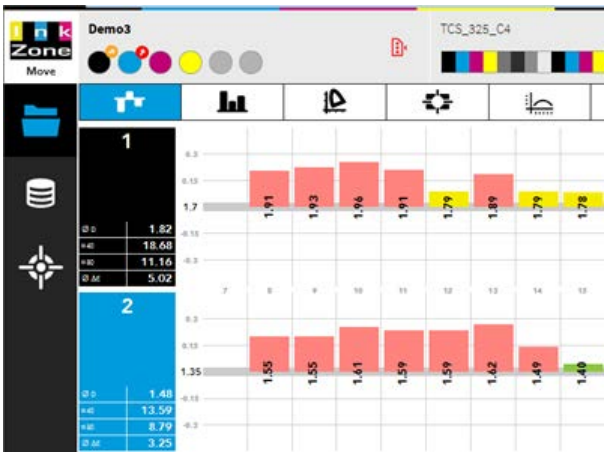
1.1.1.1.1. Ink-key Regulation Modifier



1 Regulation modifier

Change the regulation strength in 5 steps for increase or decrease the strength.

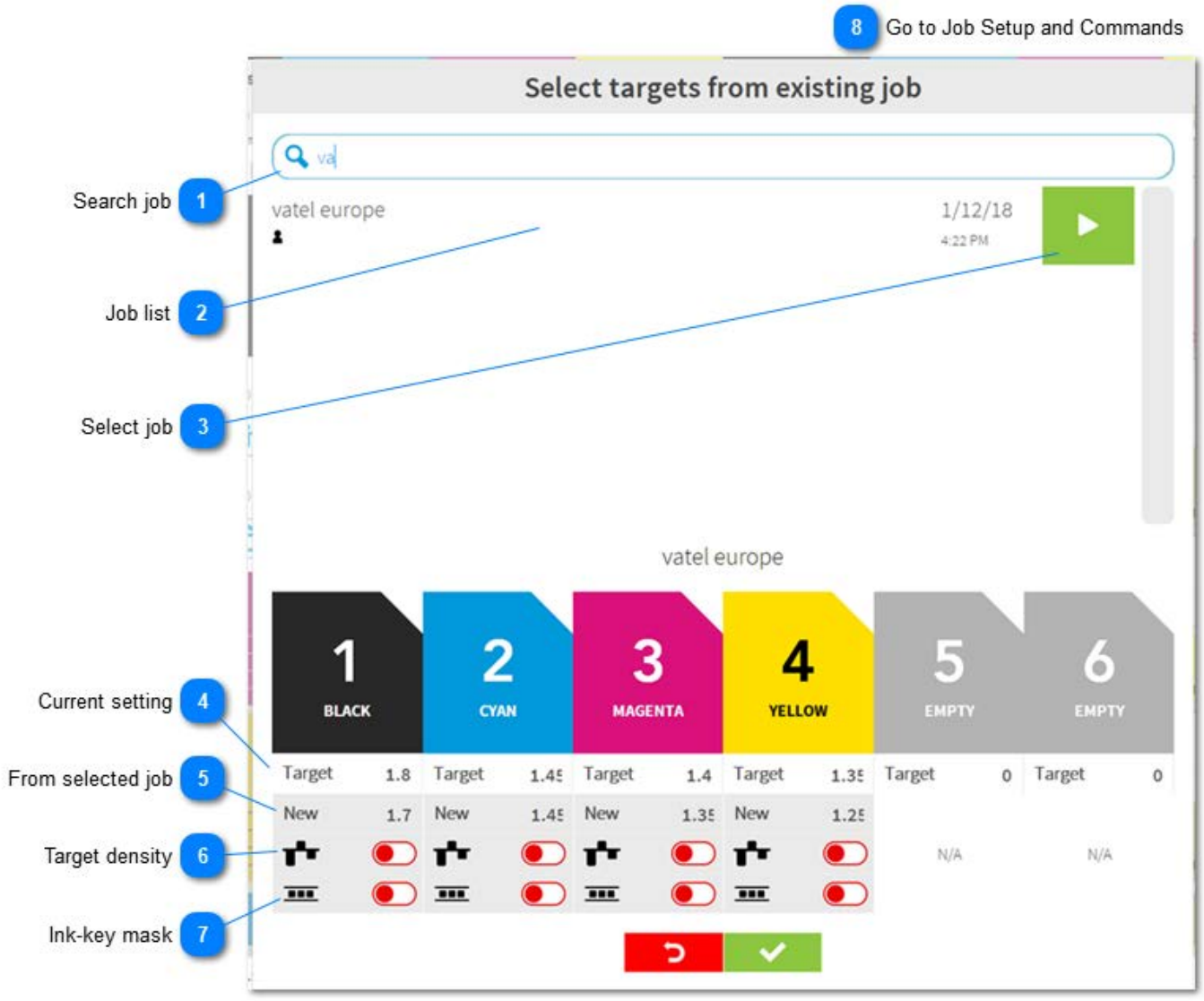
The selected level is indicated in the measurement view top left corner.
In the screenshot below the units for black and cyan were changed for stronger regulation.



2 Go to Job-Setup and Commands

1.1.1.1. Job Setup Information

1.1.1.1.2. Reuse targets from existing Job



1 Search job

Search here for the job from which the targets should be used

2 Job list

Job list with all matching jobs to the search criteria

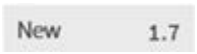
3 Select job

Select the job with the green button

4 **Current setting**

Current target density

5 **From selected job**



Target density from selected job

6 **Target density**

Enable new target density for this unit

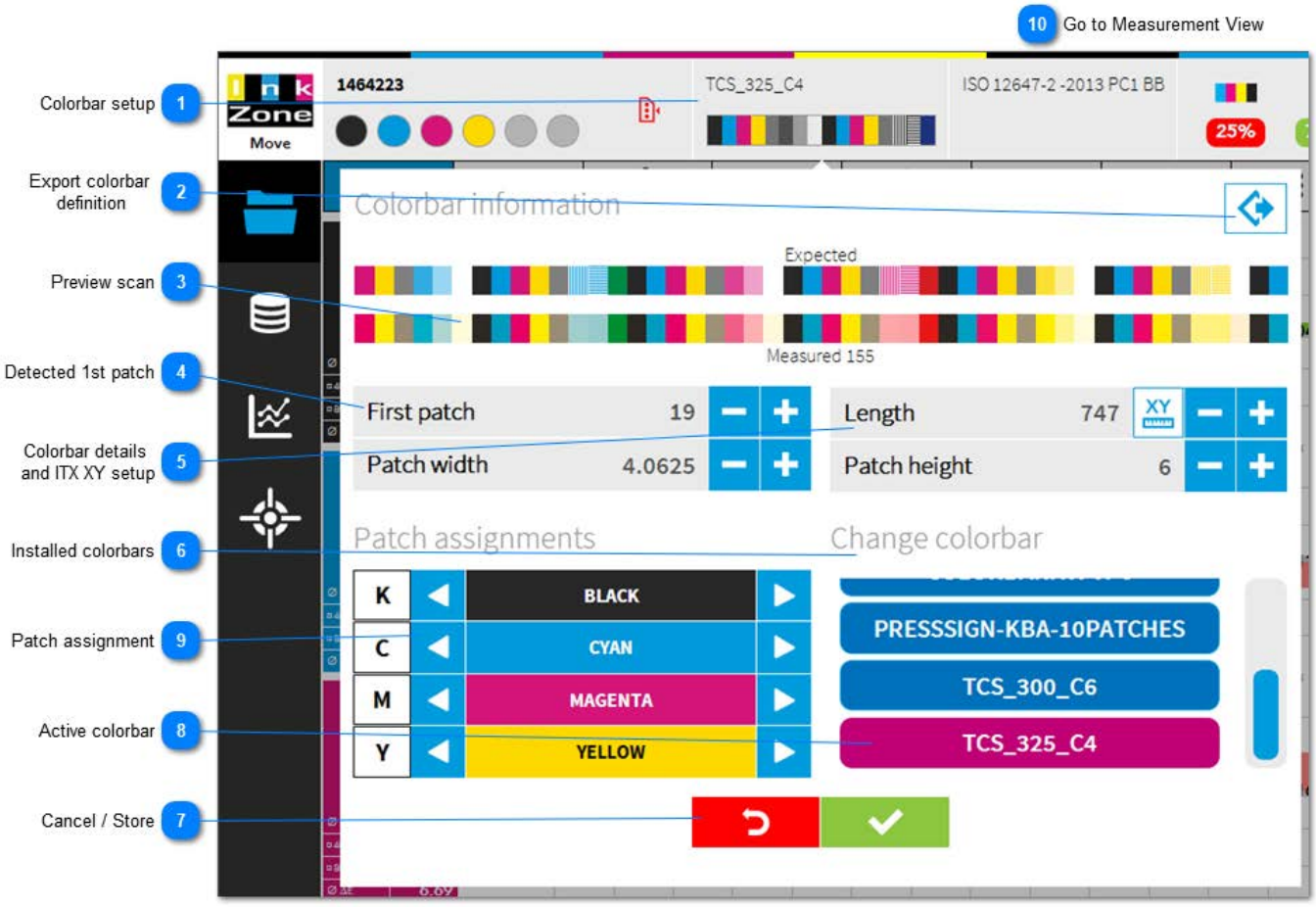
7 **Ink-key mask**

Enable ink-key mask for this unit

8 **Go to Job Setup and Commands**

1.1.1.1. Job Setup Information

1.1.1.2. Colorbar View



1 Colorbar setup

Click in the colorbar area for detailed information on the measured colorbar and to change the setup.

2 Export colorbar definition

Export the current selected colorbar as a colobar definition file CBF.

3 Preview scan

Top colorbar shows the colorbar definition, the expected. The colorbar below displays the patch data received from the scanning device.

Click on **Measured** colorbar to preview expected versus measured colorbar:

4 Detected 1st patch

Indicates the number of the first patch from the colorbar definition data. The first patch can be looked when using the IntelliTrax or EasyTrax.

5 Colorbar details and ITX XY setup

Indicates the length in mm. Use the XY button to setup the XY parameter for IntelliTrax, see here: 1.1.1.2.1. IntelliTrax XY coordinates. Sample setup 1.1.1.2.2. IntelliTrax XY sample

6 Installed colorbars

Shows all colorbars within InkZoneMove

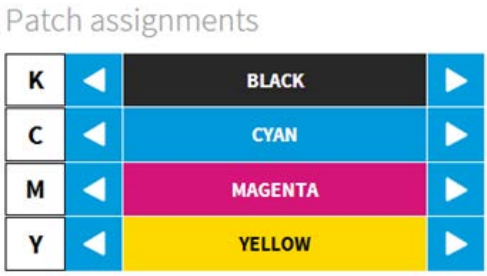
7 Cancel / Store

Accept or discard changes

8 Active colorbar

Currently selected colorbar

9 Patch assignment

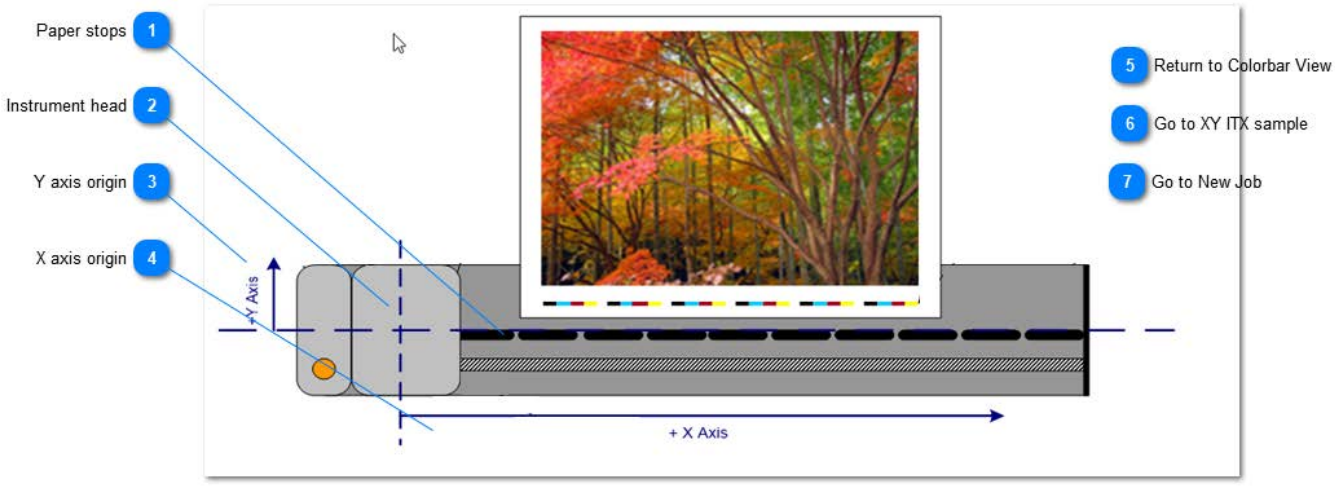


Printed color to colorbar patch assignment. Change with left and right arrow.

10 **Go to Measurement View**

1.1. Measurement View

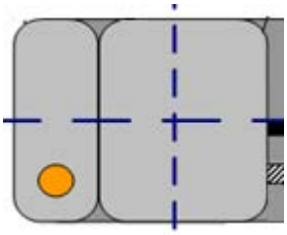
1.1.1.2.1. IntelliTrax XY coordinates



1 Paper stops

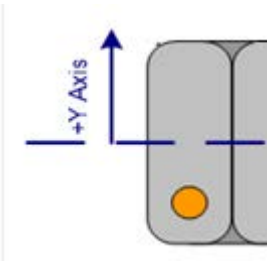
Align the job sheet to the paper stop when using XY measurement.

2 Instrument head



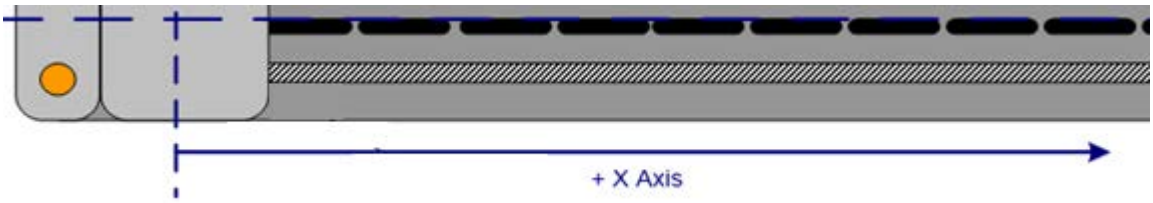
IntelliTrax head in idle position.

3 Y axis origin



Y axis, starts from paper stop, vertical.

4 X axis origin



X axis, in instrument head movement direction, horizontal.

5 **Return to Colorbar View**

1.1.1.2. Colorbar View

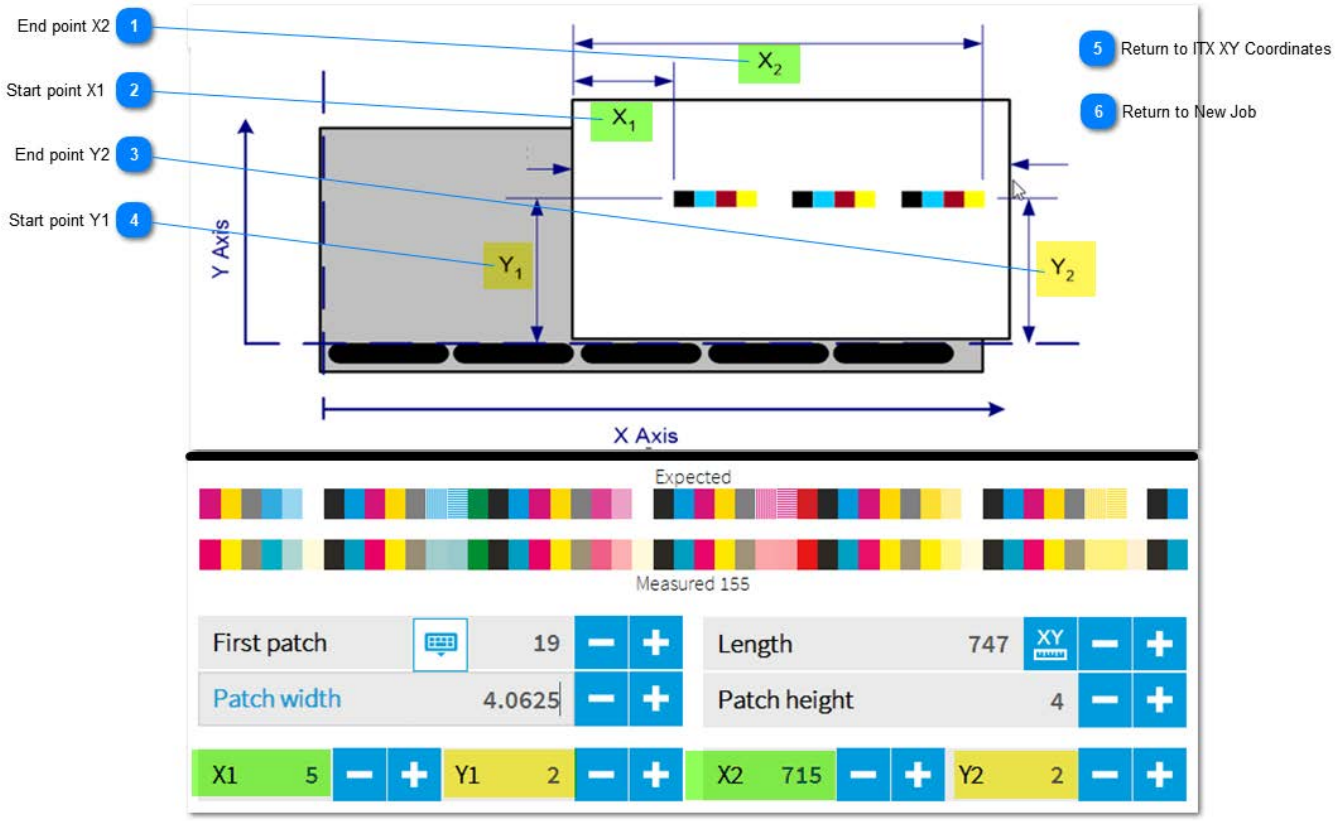
6 **Go to XY ITX sample**

1.1.1.2.2. IntelliTrax XY sample

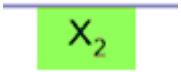
7 **Go to New Job**

1.3.2. New Job

1.1.1.2.2. IntelliTrax XY sample

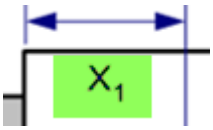


1 **End point X2**



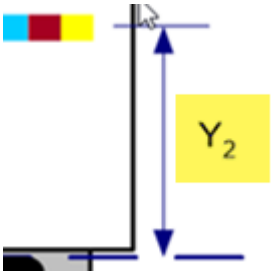
X2 is the distance from the near sheet edge to the **end** of the color patch.

2 **Start point X1**



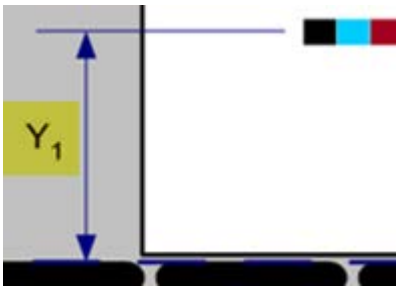
X1 is the distance from the near sheet edge to the **beginning** of the color bar.

3 **End point Y2**



Y2 is the distance from the paper stop to the **center** of the last color patch.

4 **Start point Y1**



Y1 is the distance from the paper stop to the **center** of the color bar.

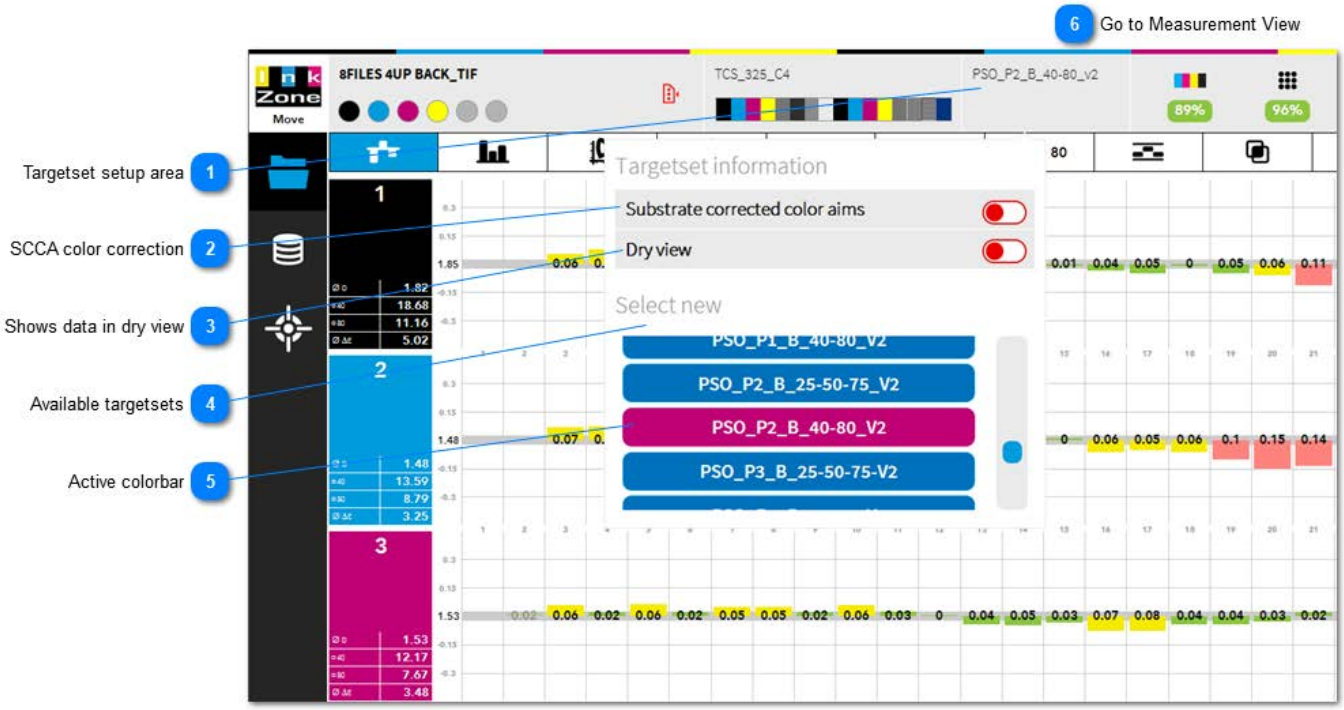
5 **Return to ITX XY Coordinates**

1.1.1.2.1. IntelliTrax XY coordinates

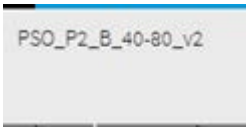
6 **Return to New Job**

1.3.2. New Job

1.1.1.3. Target-Setup View



1 Targetset setup area



Currently selected targetset

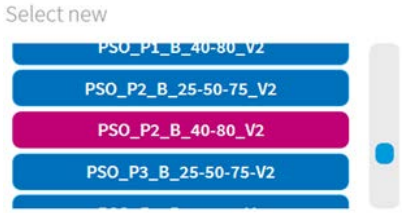
2 SCCA color correction

Activate SCCA, **S**ubstrate **C**orrected **C**olorimetric **A**ims. Corrects the Lab target of solids to match proof and press sheet when the printing substrate to be used has a color that differs from that of the reference printing.

3 Shows data in dry view

Displays the measurement data in dry view. Works with any targetset with a wet-dry definition.

4 Available targetsets



List with all defined targetset within IZMove. Color differences and scoring is recalculated after targetset change.

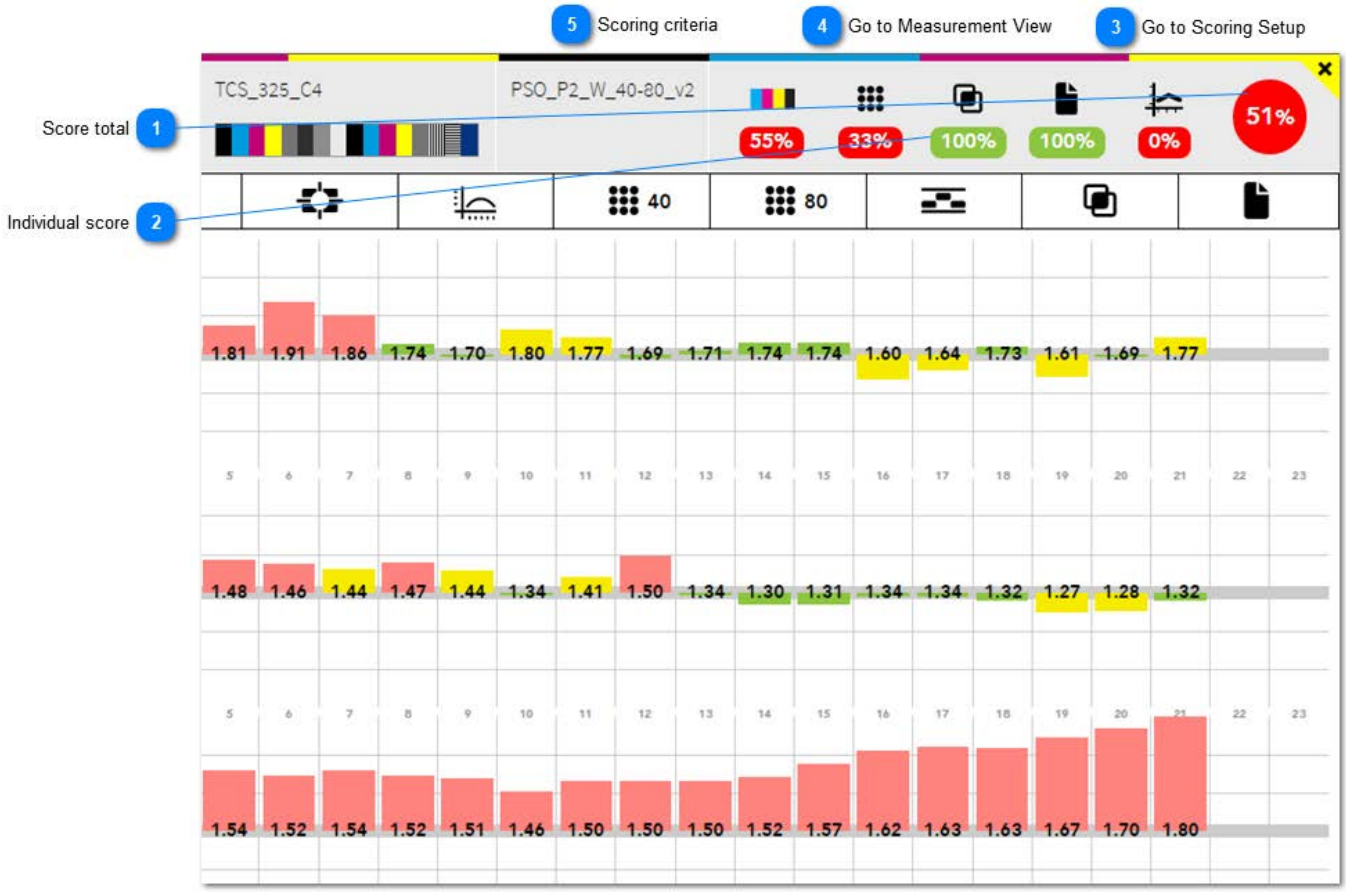
5 **Active colorbar**

Currently selected targetset.

6 **Go to Measurement View**

1.1. Measurement View

1.1.1.4. Scoring View



1 Score total

Shows total score from the current sheet.

2 Individual score

Shows separate scores for every criterion.
See all criteria here: 1.2.5.3. Scoring Criteria

3 Go to Scoring Setup

1.2.5. Scoring Setup

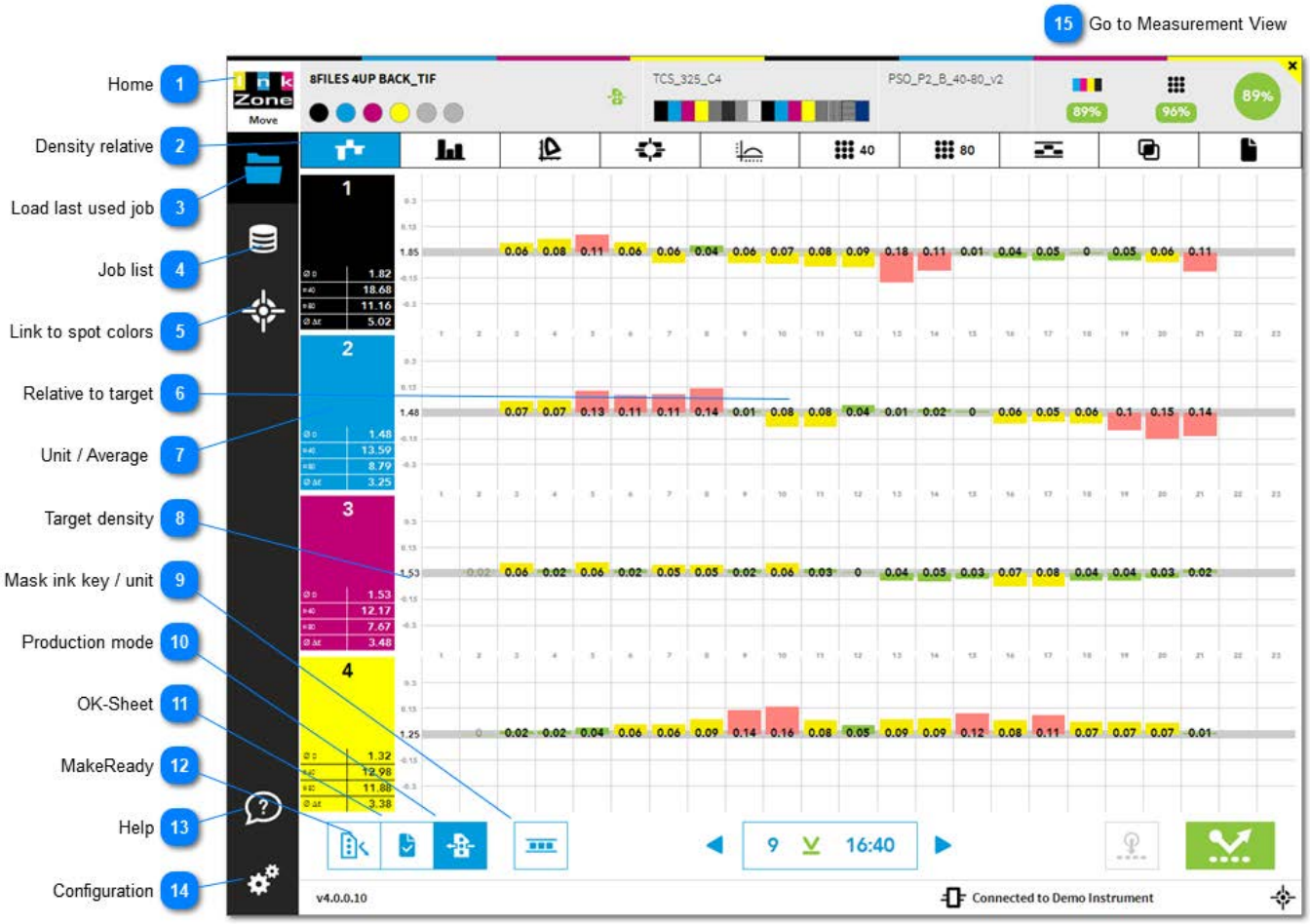
4 Go to Measurement View

1.1. Measurement View

5 **Scoring criteria**

1.2.5.3. Scoring Criteria

1.1.2. Density Relative View



1 Home

Click on it to return to the home screen

2 Density relative

Displays the density relative view

3 Load last used job

Loads the last used job

4 Job list

Loads the job list

5 Link to spot colors

Changes to the spot color setup.
See 1.2.4. Spotcolor Setup

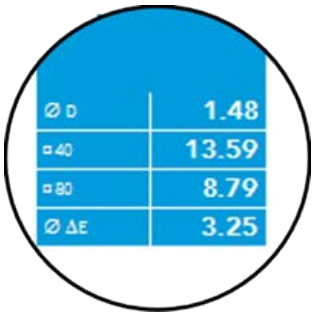
6 Relative to target

Shows measured density relative to target, like:

Target density	1.35
Measured density	1.40
Displayed value	0.05

7 Unit / Average

Shows average values.



Average values on:

Density
TVI on 40% patches
TVI on 80% patches
DeltaE

8 Target density

Shows currently used target density for the print unit.
Target density is changed by clicking on the unit number.
Then use the plus and minus button for the change.

Or simply type the new target with your keyboard.
See details here: 1.1.1.1. Change target density

9 Mask ink key / unit

Select ink key/s or unit/s which are not regulated with color control.
These key/s are also ignored by the report system.
See here 1.1.10. Mask ink key / unit

10 Production mode

Change to production mode.
IZReport uses only sheets which are marked as "Production" for the production report.

11 OK-Sheet

Sets the currently displayed sheet as an OK-sheet.
The averaged Lab value becomes the new Lab target.
The DeltaE values are recalculated when applying the OK-sheet to a previously scanned sheet.

12 MakeReady

Every new job is initially as MakeReady. Change to OK-sheet or Production mode.
IZReport ignores all MakeReady sheets when a production report is generated.

13 Help

Context sensitive help button. Shows the help page for the currently active screen

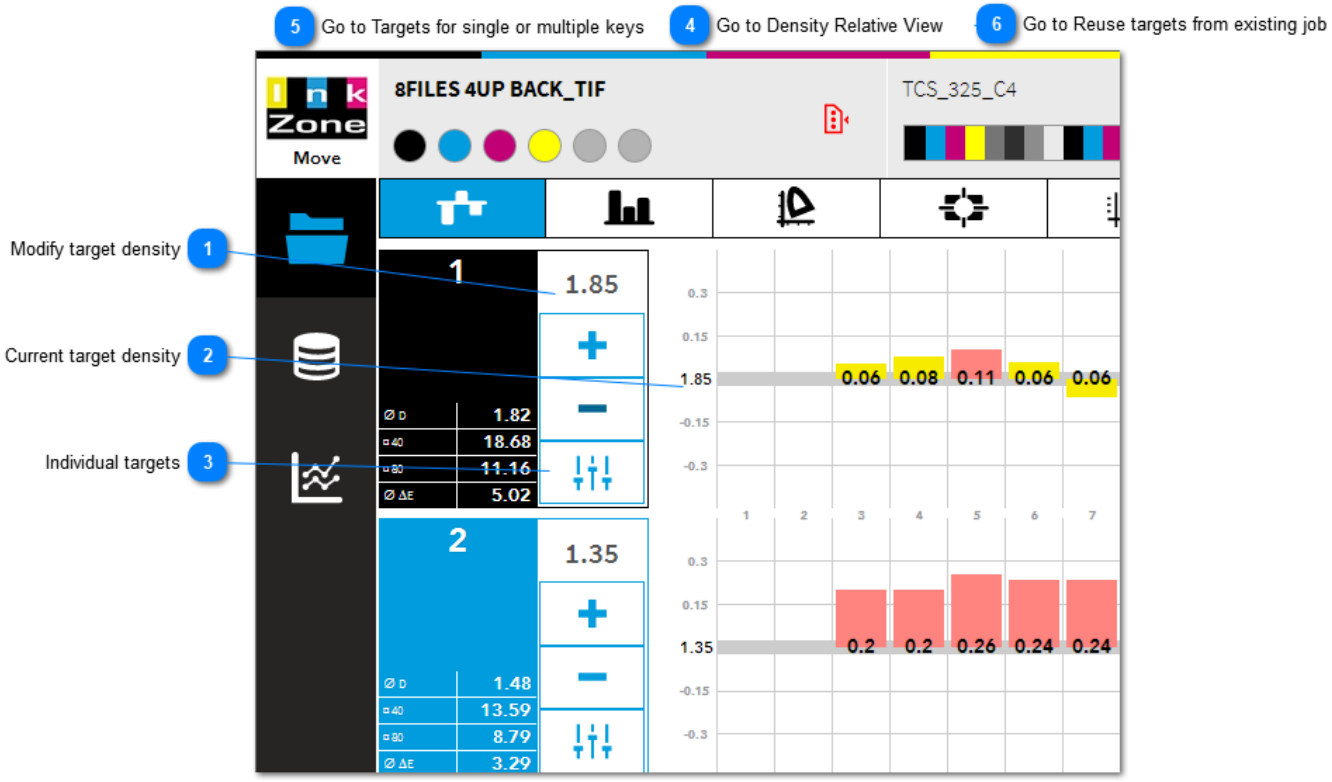
14 Configuration

Open up the software configuration page

15 Go to Measurement View

1.1. Measurement view

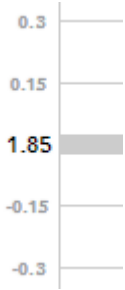
1.1.2.1. Target Density



1 Modify target density

Change target density for all ink keys with the +/- buttons

2 Current target density



Indicates the current target density (1.85) with the tolerance area in grey.
Targets and tolerances are set here: 1.2.3. Targetset & Print Tolerance Setup

3 Individual targets

Change to the individual target density setup.
See details here: 1.1.1.2. Change target density for individual keys

4 **Go to Density Relative View**

1.1.2. Density Relative View

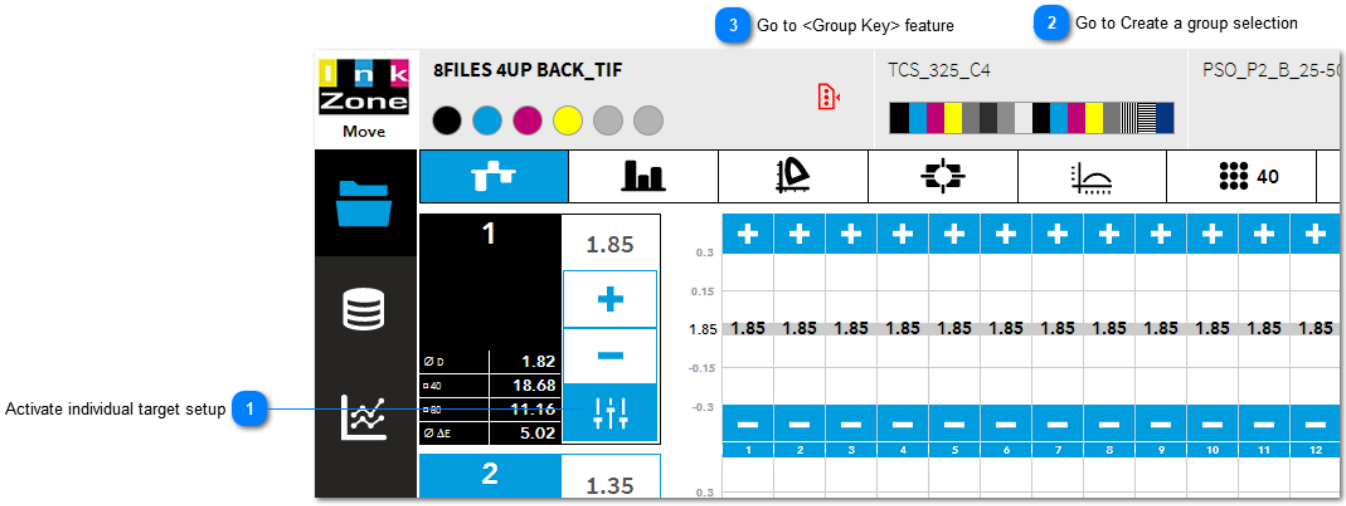
5 **Go to Targets for single or multiple keys**

1.1.2.2. Change Target Density for Single or Grouped Keys

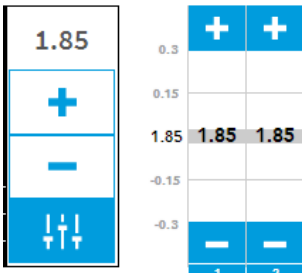
6 **Go to Reuse targets from existing job**

1.1.1.1.2. Reuse targets from existing Job

1.1.2.2. Change Target Density for Single or Grouped Keys



1 Activate individual target setup



Set individual target densities for every ink key. Press the plus minus buttons from the key to change targets.
With an ink key group selection several ink keys are changed at once.
See also the feature ink-key groups: 1.1.2.4. Change Target Density with Group Ink-Keys feature

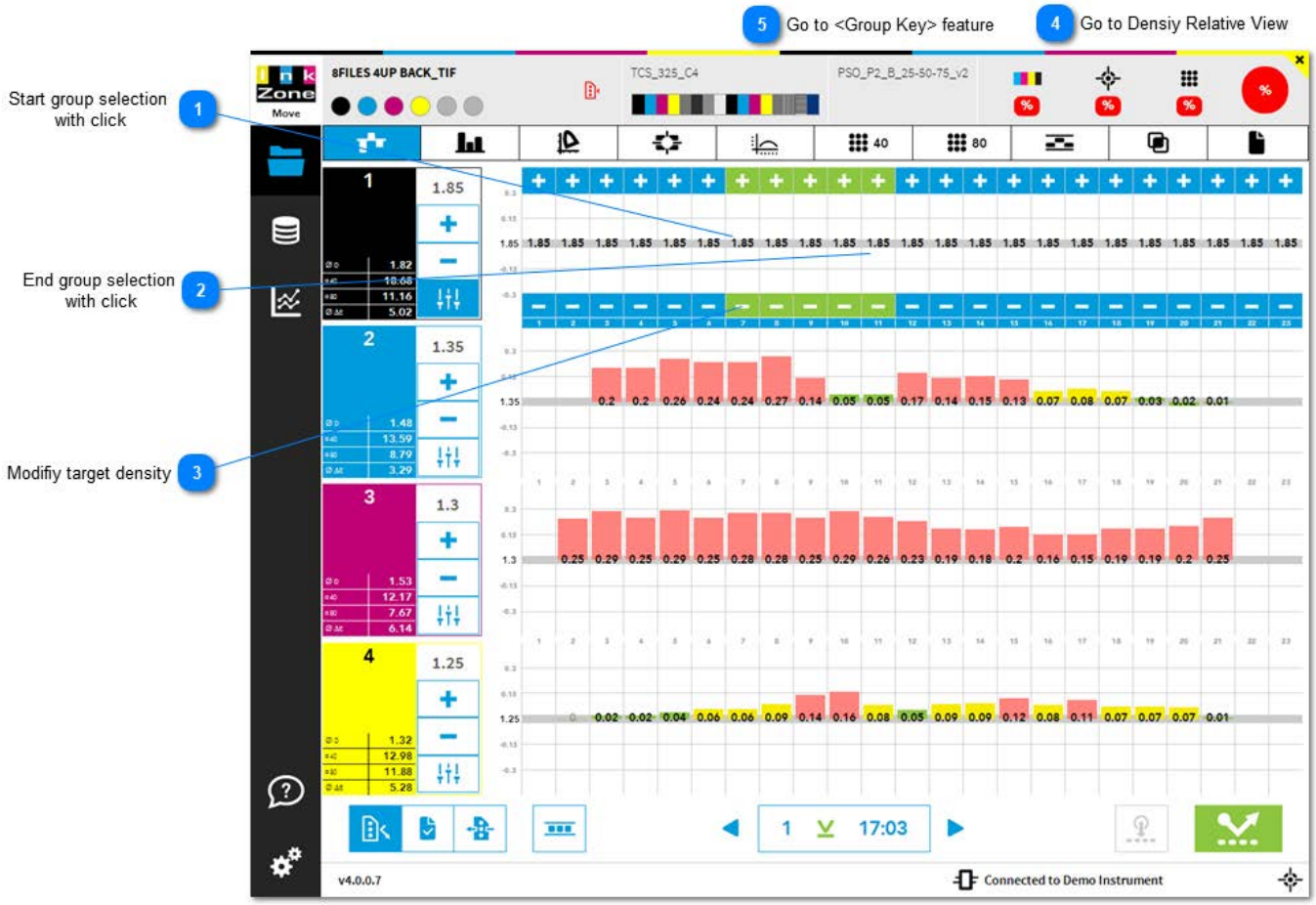
2 Go to Create a group selection

1.1.2.3. Group Selection

3 Go to <Group Key> feature

1.1.2.4. Change Target Density with <Group Ink-Keys> feature

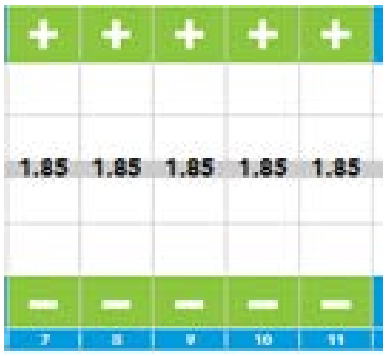
1.1.2.3. Key Group Selection



1 Start group selection with click

Click on the first key from an ink-key group. The key start to blink.

2 End group selection with click



After selecting the last ink-key, an ink-key group is selected
and is indicated by a green overlay on the plus and minus buttons.

3 Modifiy target density

Change the target density with the plus and minus button

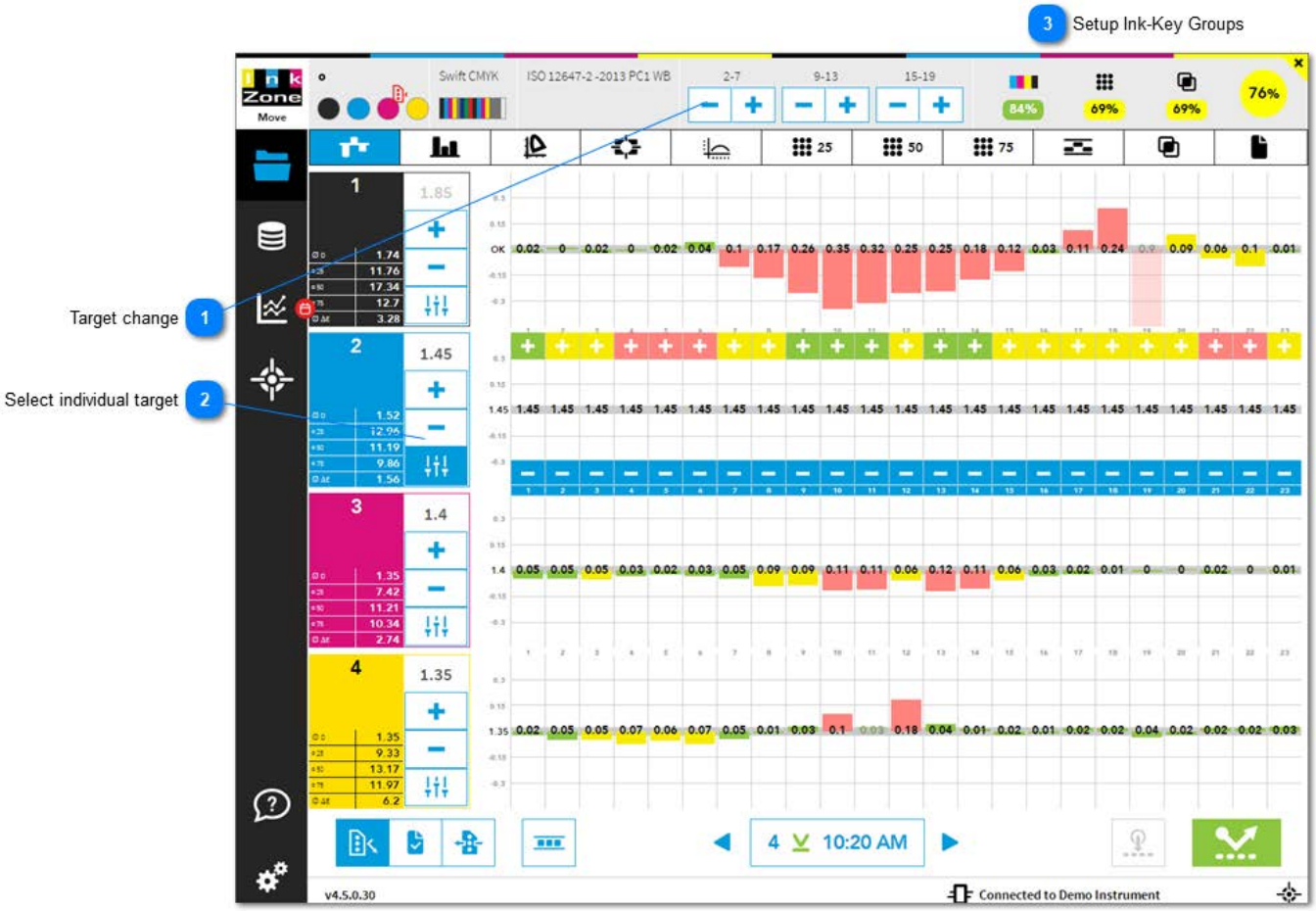
4 Go to Densiy Relative View

1.1.1. Density Relative View

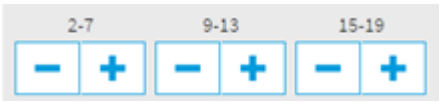
5 Go to <Group Key> feature

1.1.2.4. Change Target Density with <Group Ink-Keys> feature

1.1.2.4. Change Target Density with <Group Ink-Keys> feature



1 Target change



Change through the plus or minus button the group's ink-keys.

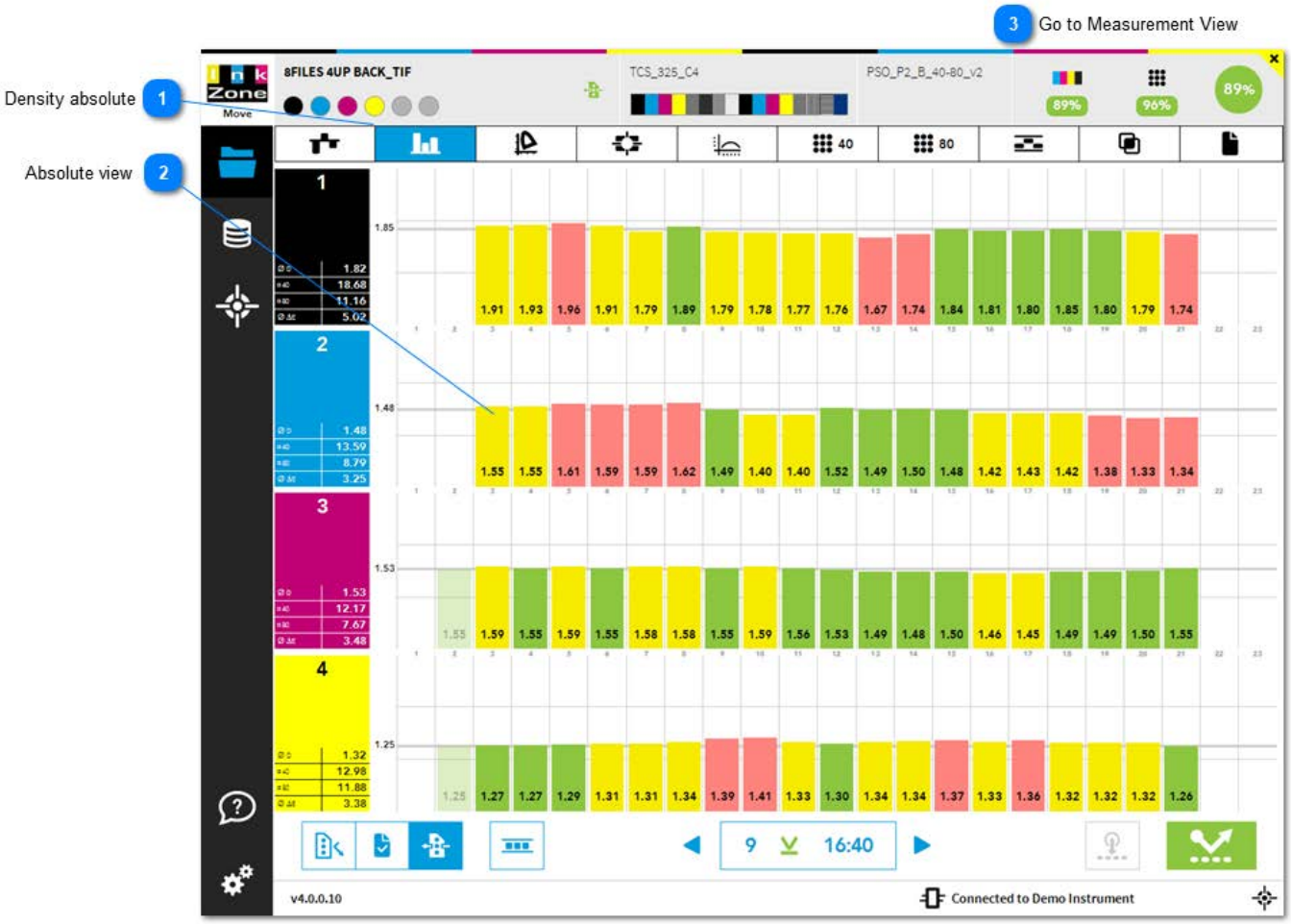
2 Select individual target

Select the icon individual density target and apply target density changes to a range of keys through the +/- buttons from **(1)**
Note: it's possible to select more than one unit

3 Setup Ink-Key Groups

To setup ink-key groups see here: 1.2.1.5. Ink-Key Groups

1.1.3. Density Absolute View



1 Density absolute

Displays the density relative view

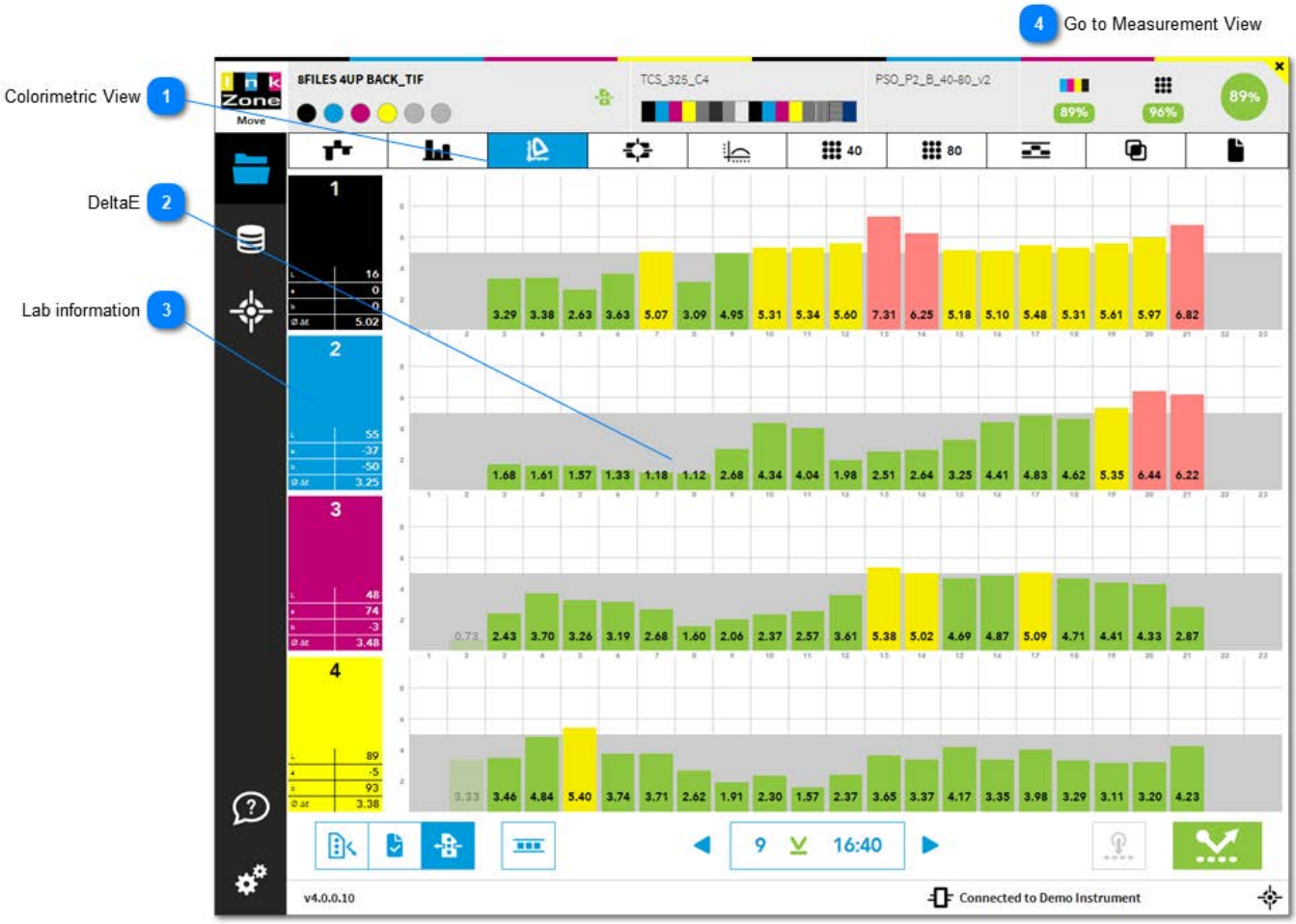
2 Absolute view

Shows measured density in absolute numbers

3 Go to Measurement View

1.1. Measurement view

1.1.4. Colorimetric View



1 Colorimetric View

Displays colorimetric information

2 DeltaE

Displays DeltaE on every ink-key.
Select the DeltaE method in the target setup, see 1.2.3.2. New Targetset

3 Lab information

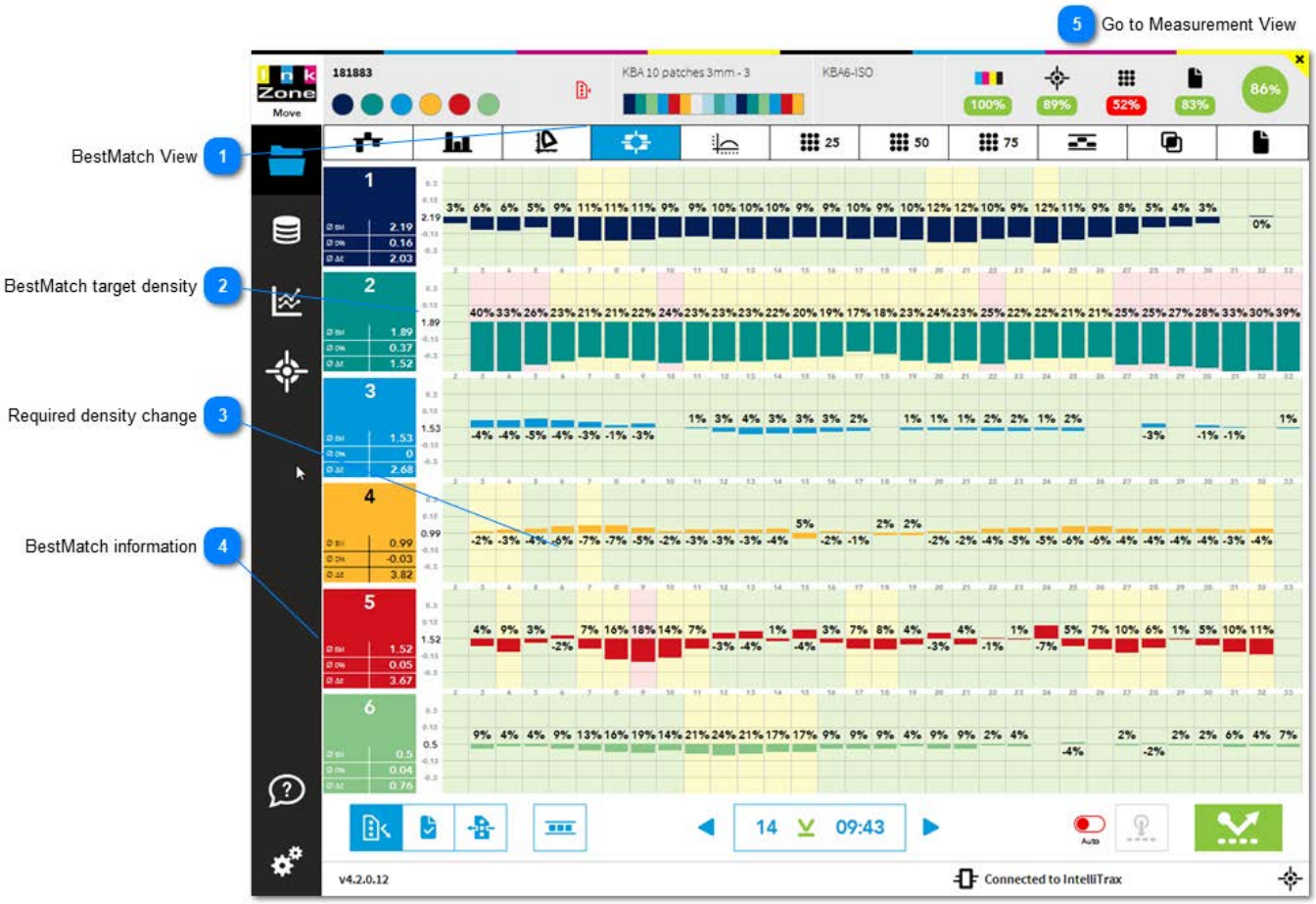
Shows Lab target and average DeltaE

4 **Go to Measurement View**

1.1. Measurement view

1.1.5. BestMatch View

Click on the unit number to enable BestMatch target for printing.

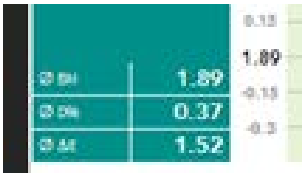


1 BestMatch View

Displays BestMatch information with green, yellow and red background for every key.

Background indicator:
1) Green = color is okay and within DeltaE defined by the targetset
2) Yellow = color is at the edge of the tolerance
3) Red = out of tolerance

2 BestMatch target density



Shows current BestMatch target. In this sample 1.89.

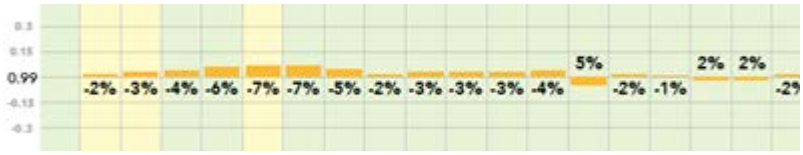
BestMatch **disabled** (=white background) and 1.89 is the BestMatch target

Standard target density is **enabled**
1.77 is currently active target density

BestMatch **enabled** (=blue background and BM icon next to unit number shows up) and 1.89 is the BestMatch target

Standard target density is **disabled** (=white background)

3 Required density change



Required density change, ink-key change to reach BestMatch DeltaE

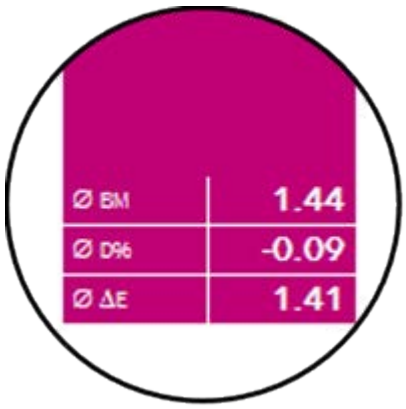
4 BestMatch information

Shows BestMatch information

BM target density, averaged

Required density change, averaged

Predicted BestMatch DeltaE when BestMatch target density is reached



5 Go to Measurement View

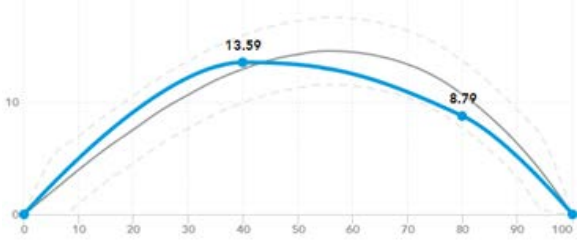
1.1. Measurement view

1.1.6. Dotgain Curve View

1 View Dotgain Curve

Displays dot gain curves

2 Dotgain curve



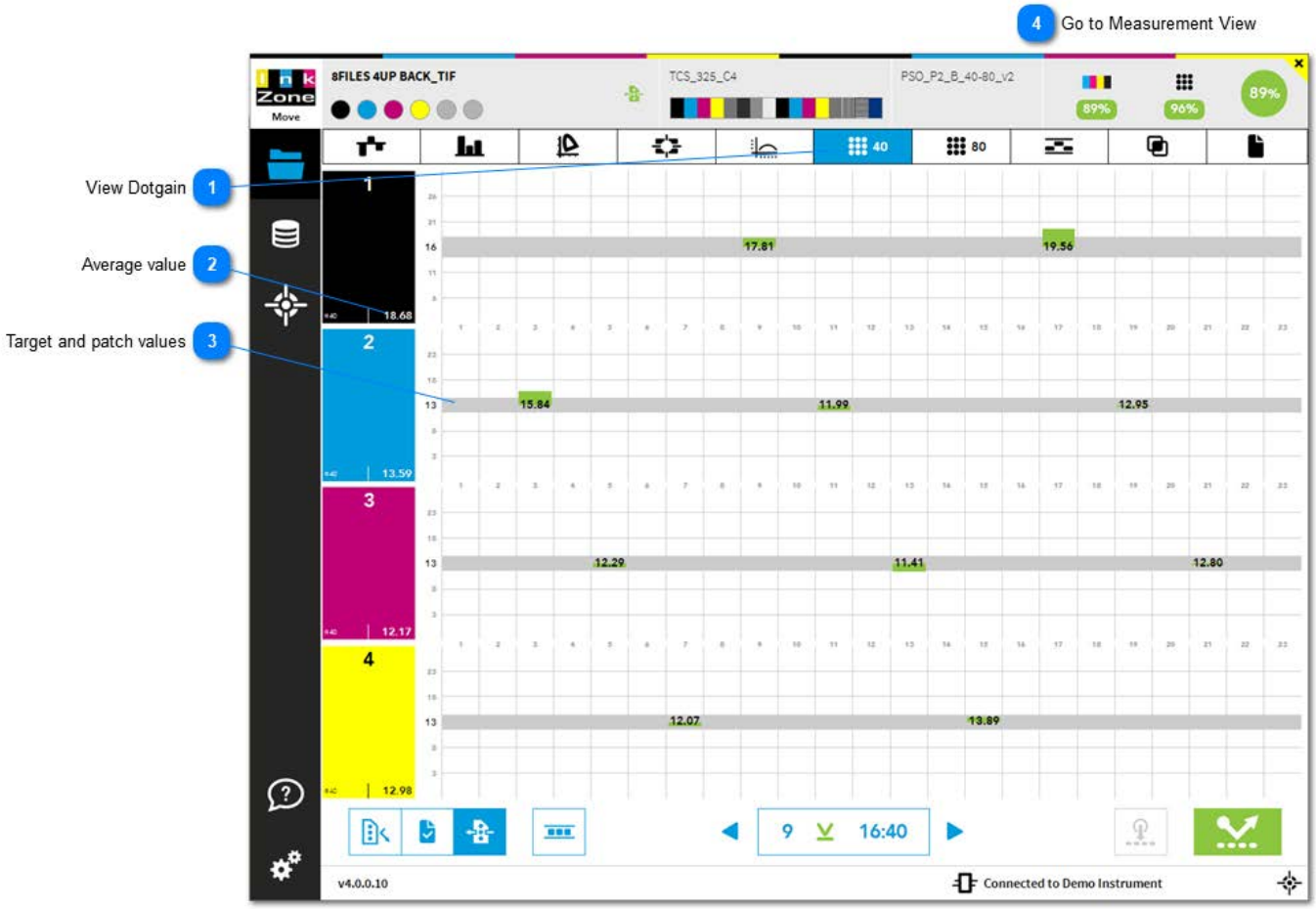
Dotgain curves:

Grey	expected curve
Doted grey	tolerance area
Colored	dotgain curve press sheet

3 **Go to Measurement View**

1.1. Measurement view

1.1.7. Dotgain View



1 View Dotgain

Displays dot gain on measured patches

2 Average value

Average dot gain

3 Target and patch values

Target and measured dot gain

4 **Go to Measurement View**

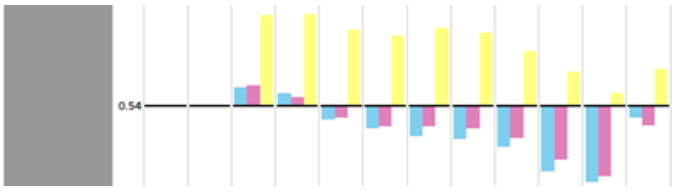
1.1. Measurement view

1.1.8. Gray View

1 Grey view

Displays grey tone information

2 CMY Densities

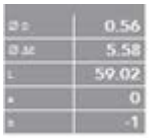


Displays C,M and Y density related grey density target.
The targetset 50% grey tone has a density of 0.54

3 DeltaE

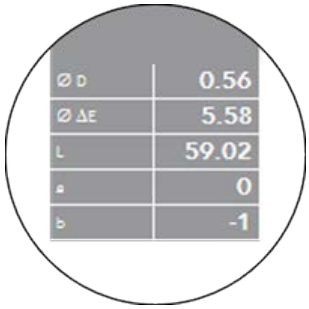
Displays DeltaE on each key

4 Target and average

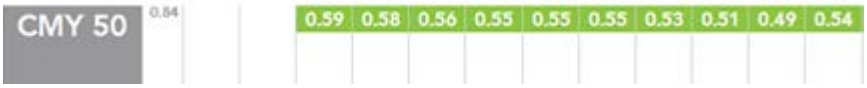


Average density
Average DeltaE

Target Lab



5 Density for CMY

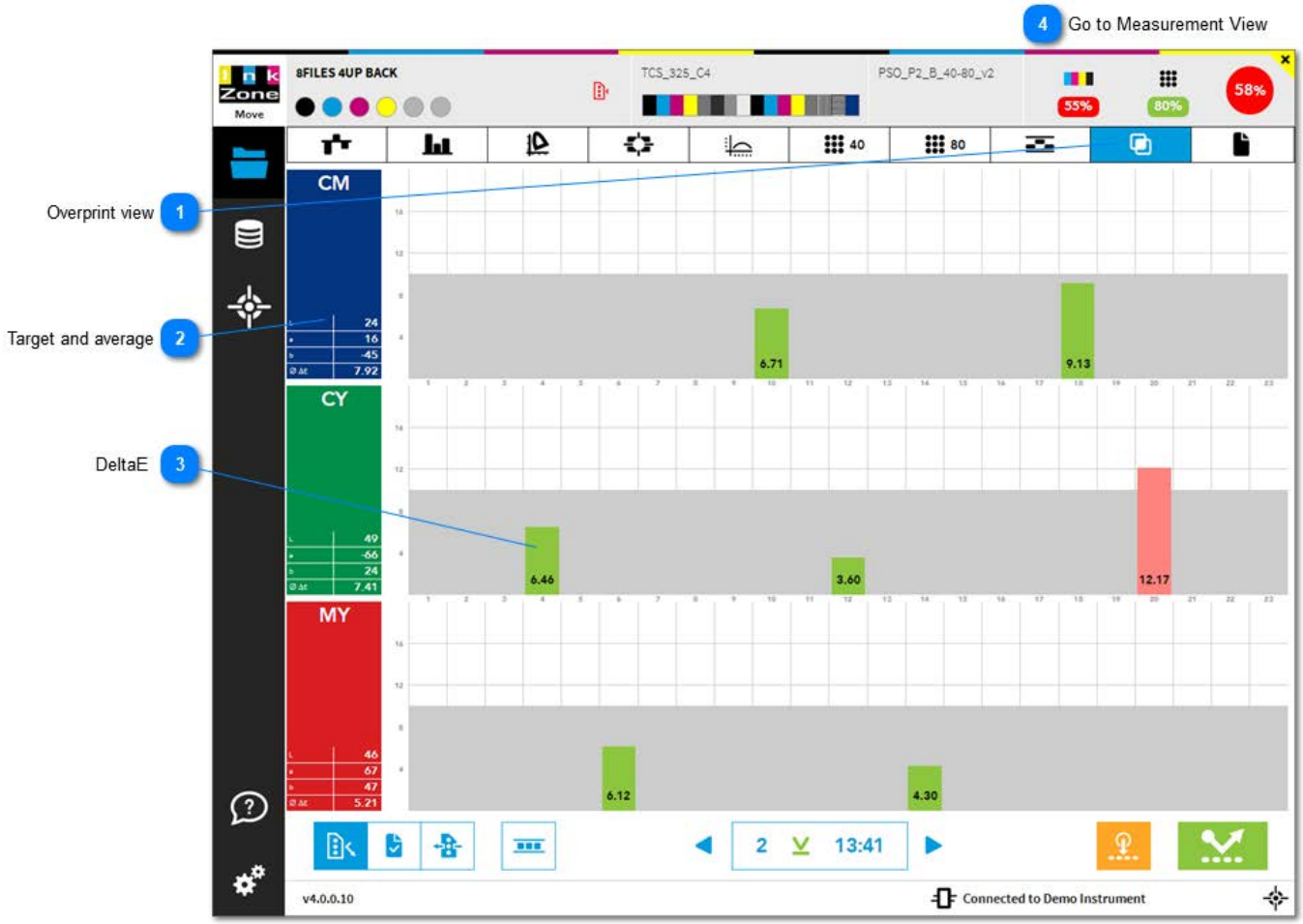


Averaged CMY density on each ink key

6 Go to Measurement View

1.1. Measurement view

1.1.9. Overprint View



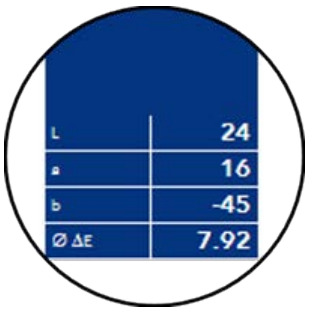
1 Overprint view

Displays overprint information

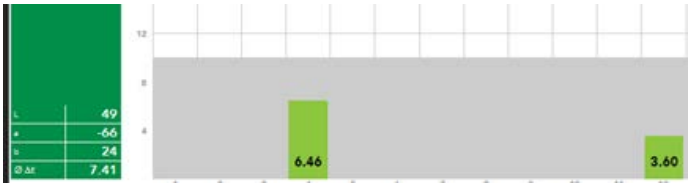
2 Target and average

Target Lab

Average DeltaE



3 DeltaE

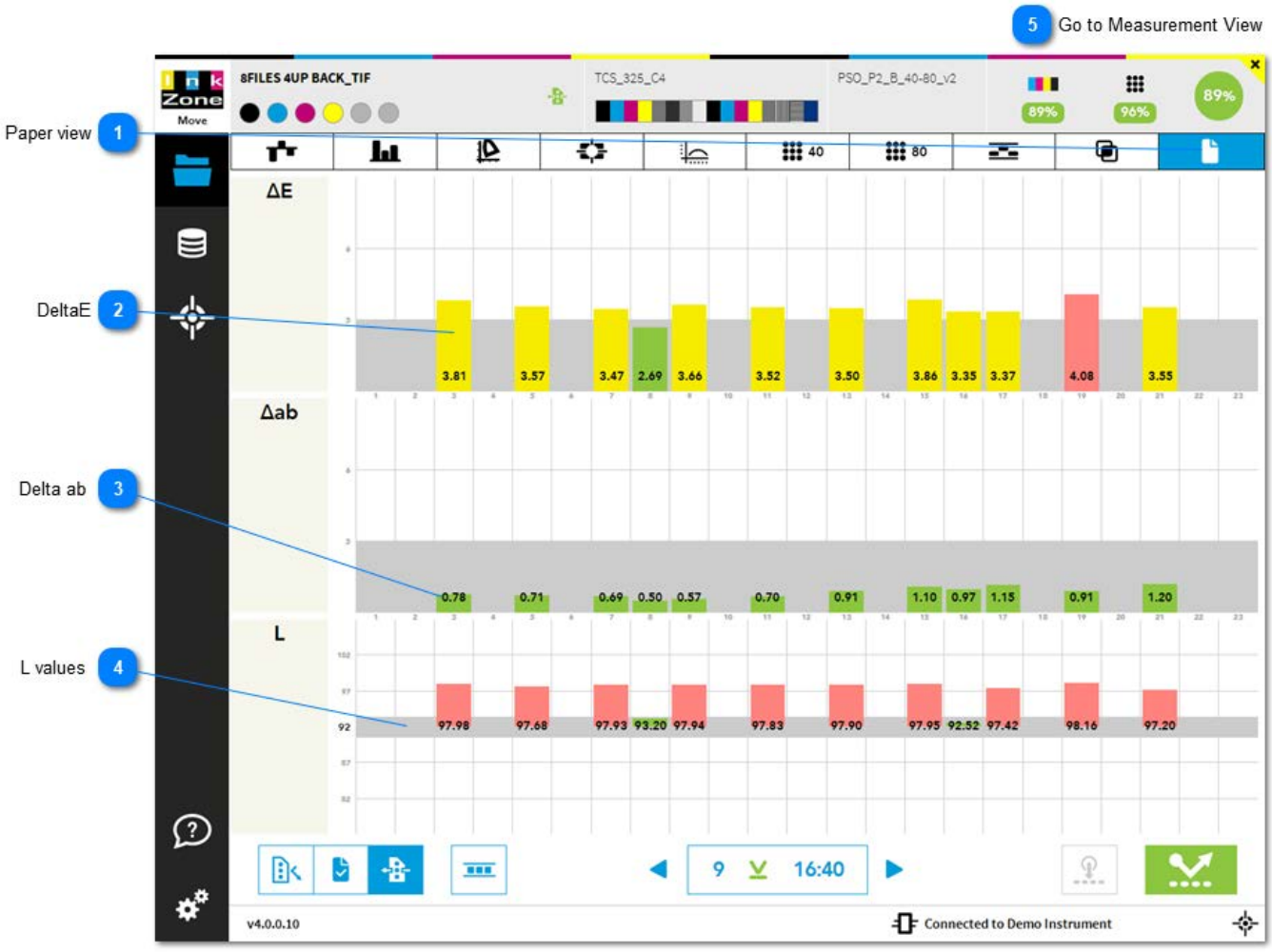


Shows DeltaE on the overprint patches

4 Go to Measurement View

1.1. Measurement view

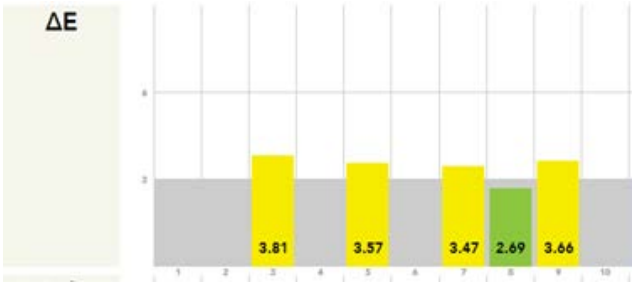
1.1.10. Paper View



1 Paper view

Displays information on paper measurement

2 DeltaE

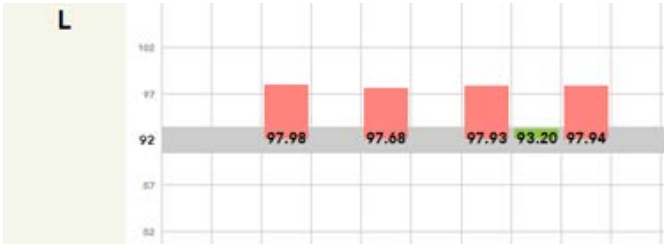


DeltaE values for paper patches

3 Delta ab

Delta ab values for paper patches

4 **L values**



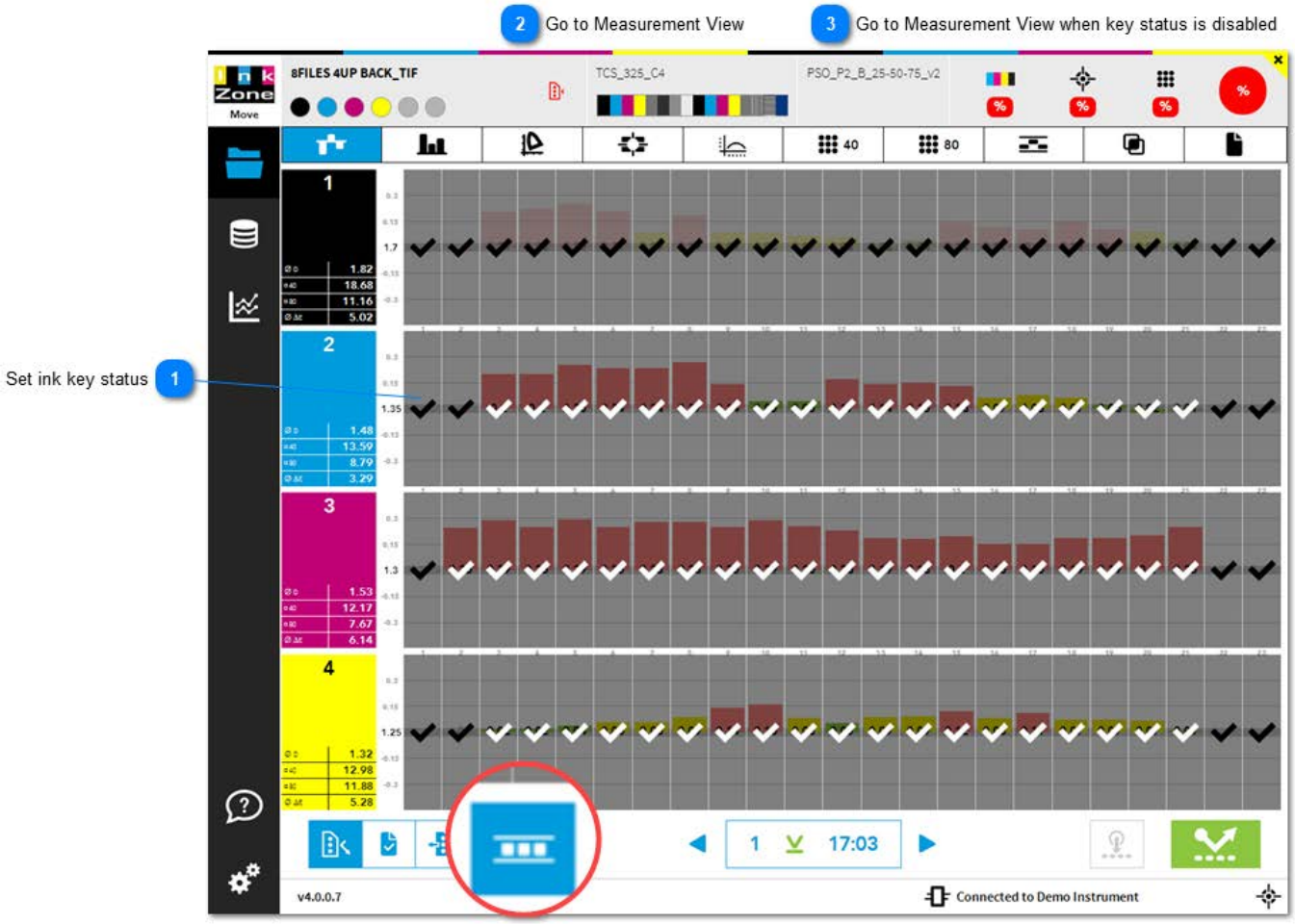
L value for paper patches

5 **Go to Measurement View**

1.1. Measurement view

1.1.11. Mask Ink-Key & Units

Disable units or single ink-keys in the mask view. The scoring is updated in real time and disabled ink-keys or units are excluded from color-control.



1 Set ink key status

Click on a single ink key or swipe from left to right to change the status of an entire unit
White tick = not selected (default) = used for scoring and color-control
Black tick = selected = disabled

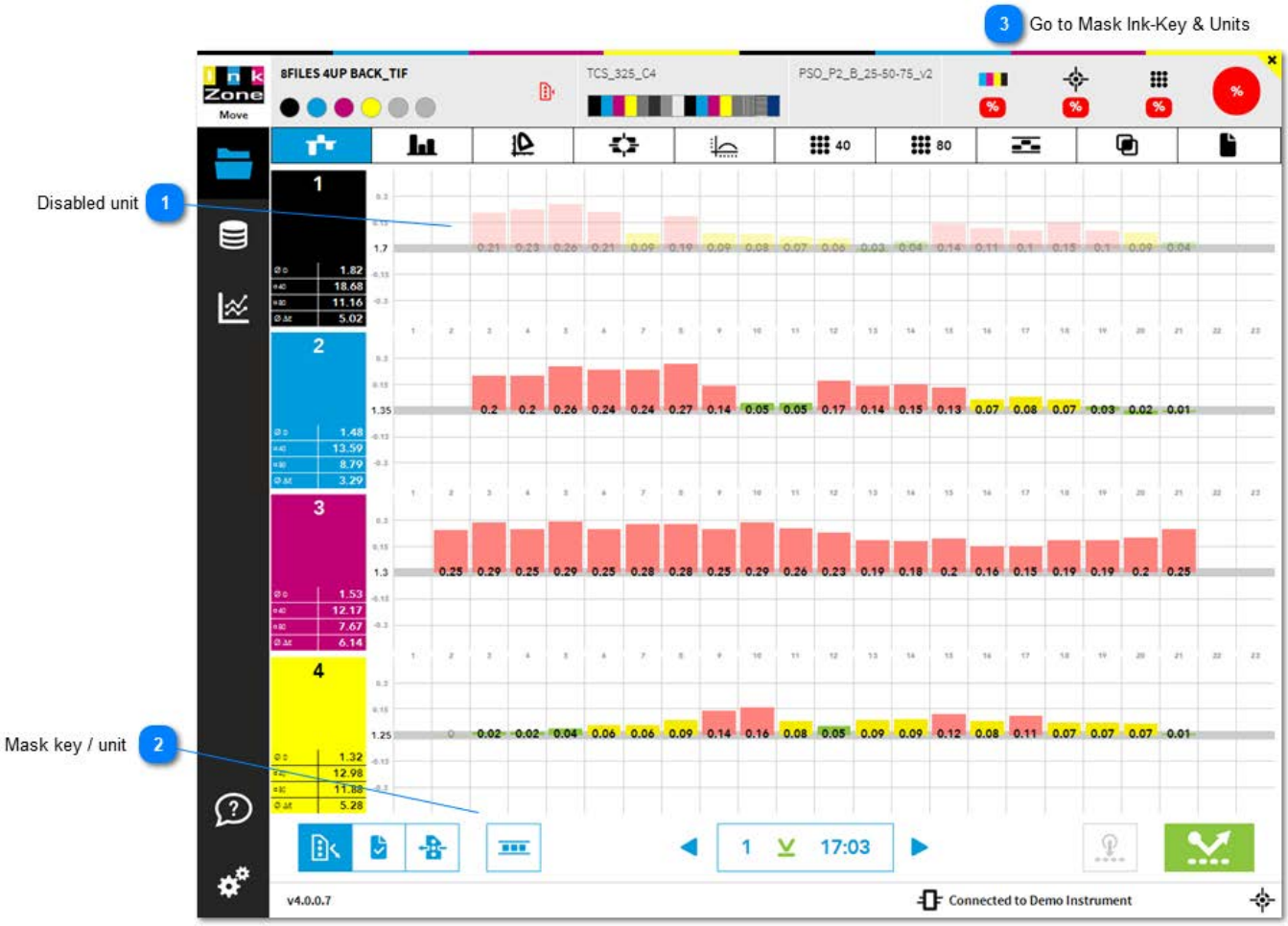
2 Go to Measurement View

1.1. Measurement view

3 Go to Measurement View when key status is disabled

1.1.10.1. Masked view

1.1.11.1. Masked view



1 Disabled unit

The measurement data is dimmed indicating disabled key / unit

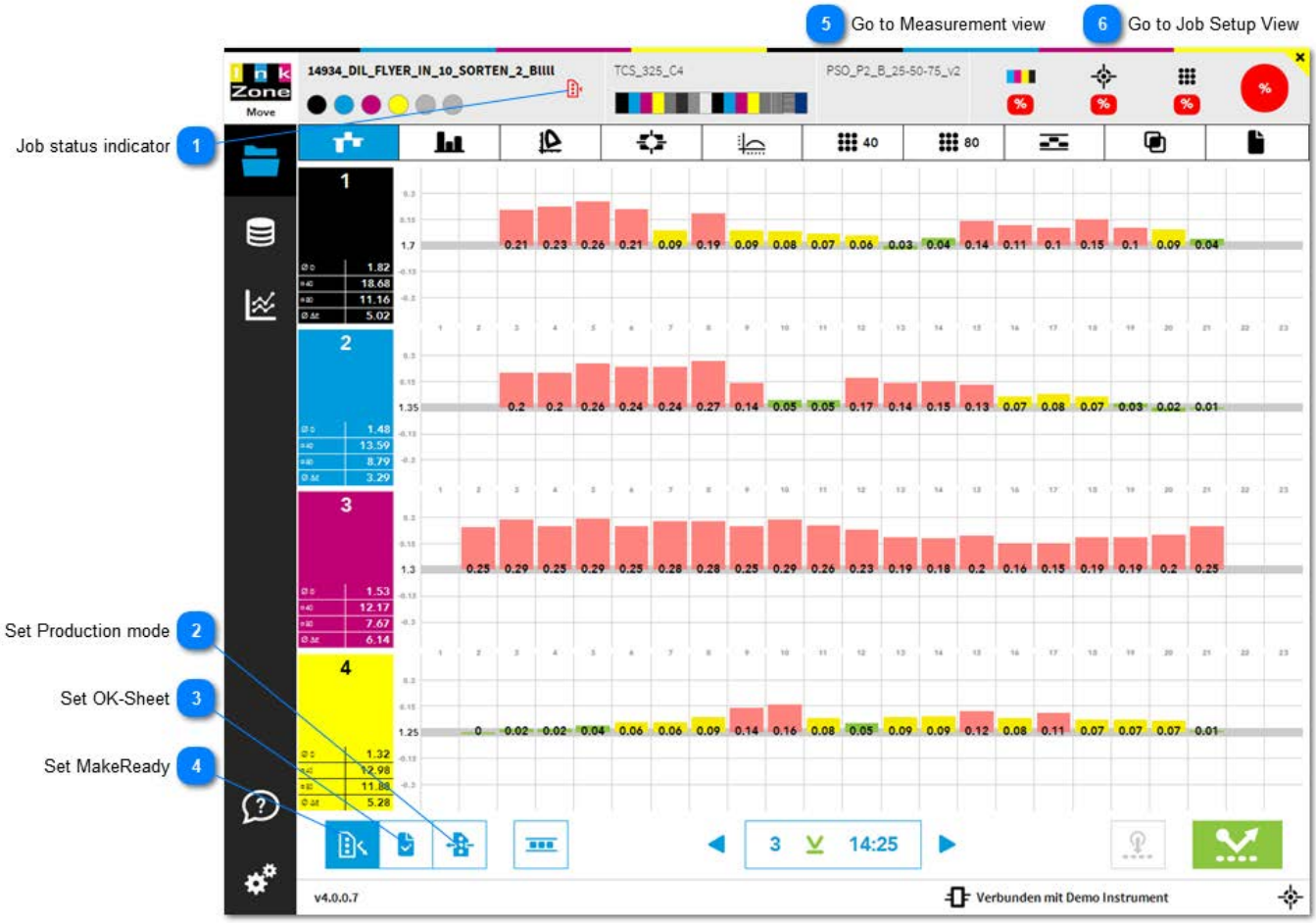
2 Mask key / unit

Mask from here key/s and unit/s
See here 1.1.10. Mask ink key / unit

3 Go to Mask Ink-Key & Units

1.1.11. Mask Ink-Key & Units

1.1.12. Job Status



1 Job status indicator

Shows the current job status

2 Set Production mode

Change to production mode

3 Set OK-Sheet

Sets the current measurement, the sheet, as the OK-sheet.
See more details here: 1.1.12.1. OK-Sheet

4 Set MakeReady

Every new job is initially in MakeReady status. Change to the status OK-sheet or Production mode.

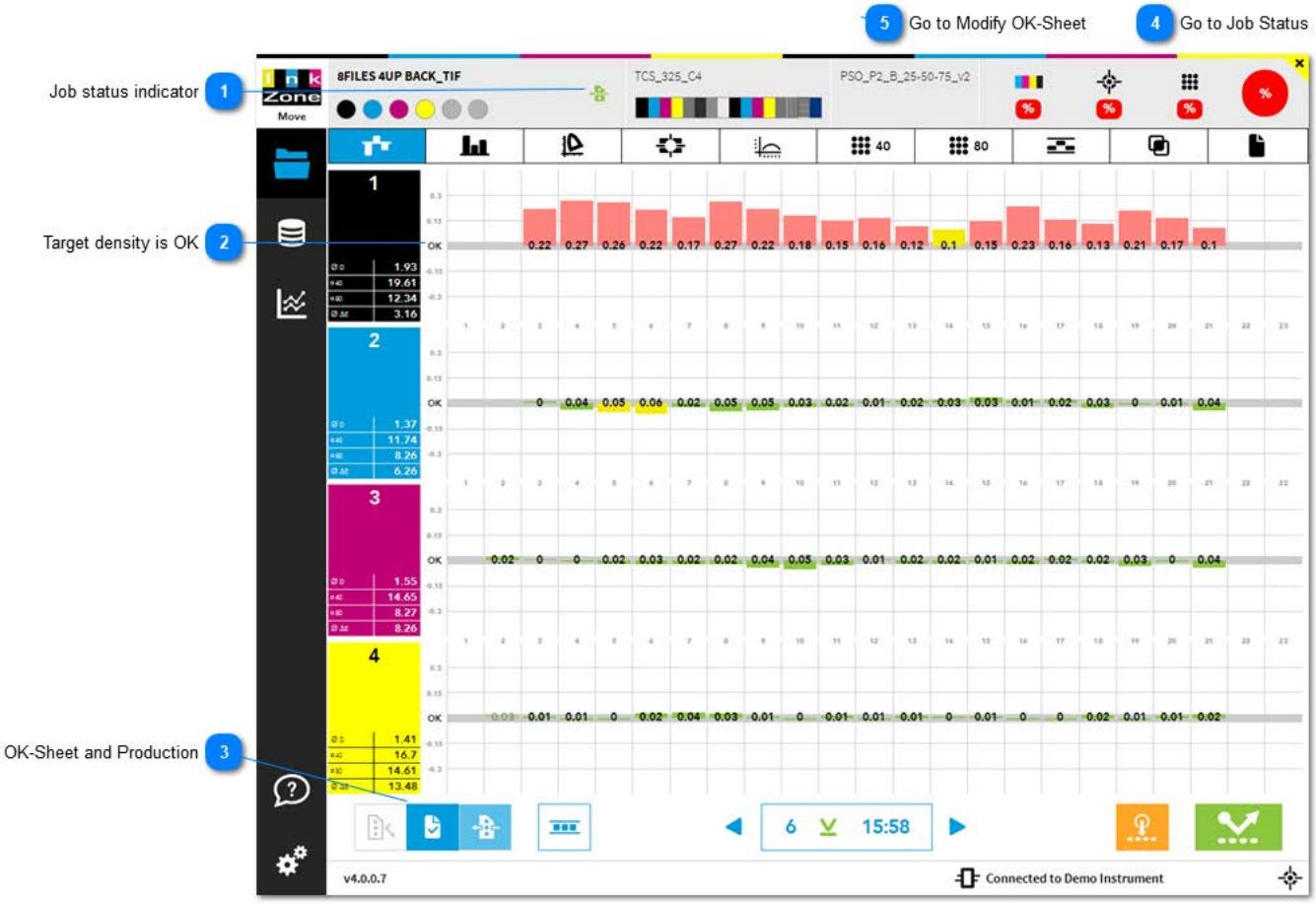
5 **Go to Measurement view**

1.1. Measurement view

6 **Go to Job Setup View**

1.1.1.1. Job-Setup View

1.1.12.1. OK-Sheet



1 Job status indicator

The icon changes to OK-Sheet

2 Target density is OK

The target density becomes OK

3 OK-Sheet and Production

The buttons OK-Sheet and Production are active

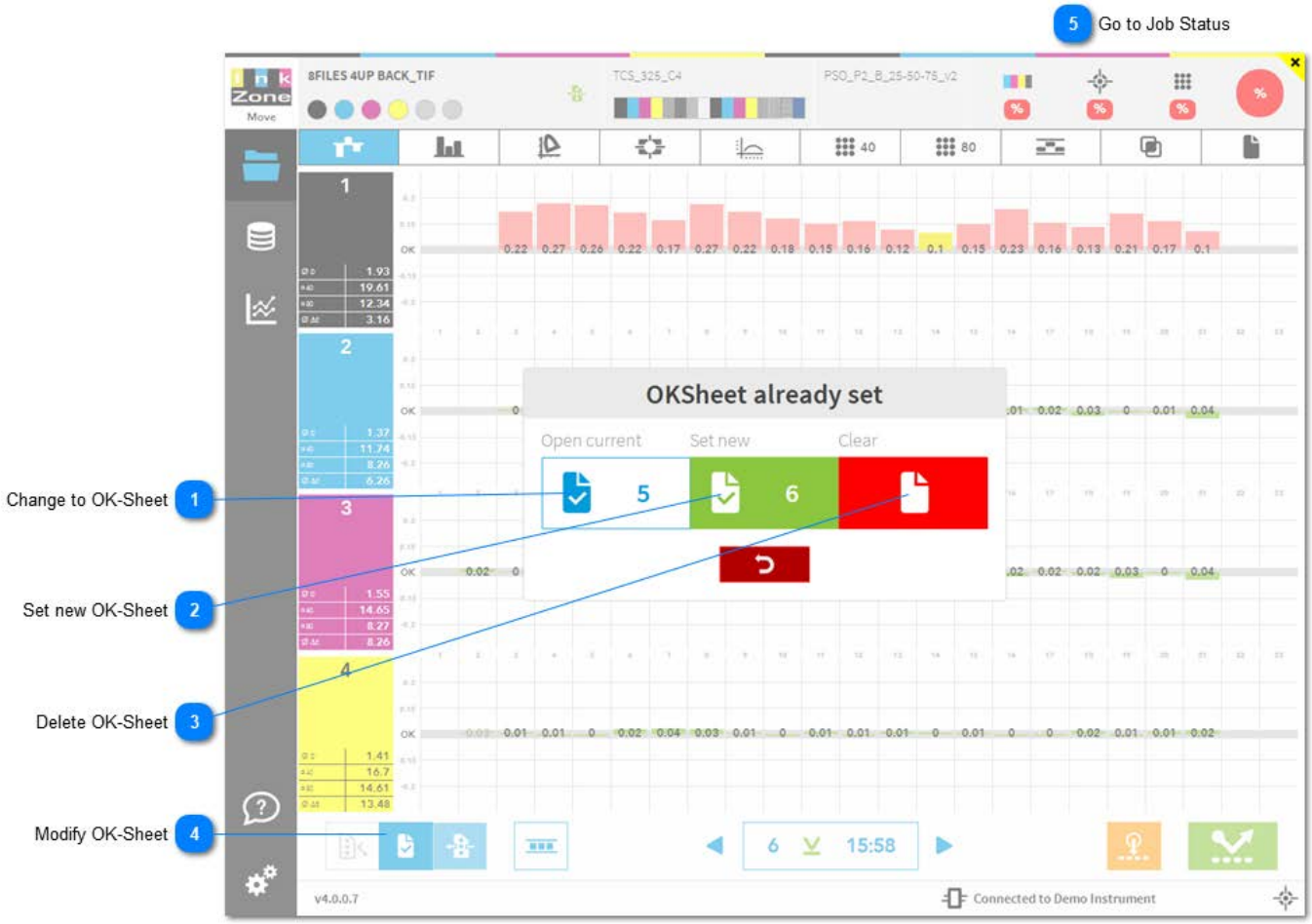
4 Go to Job Status

1.1.16. Job Status

5 **Go to Modify OK-Sheet**

1.1.12.2. Modify OK-Sheet

1.1.12.2. Modify OK-Sheet



1 Change to OK-Sheet

Opens the current OK-Sheet. In this sample it's sheet number 5.

2 Set new OK-Sheet

Sets the current measurement as the new OK-Sheet, like sheet number 6.

3 Delete OK-Sheet

Deletes a previously set OK-Sheet and returns to one target density per ink unit.

4 Modify OK-Sheet

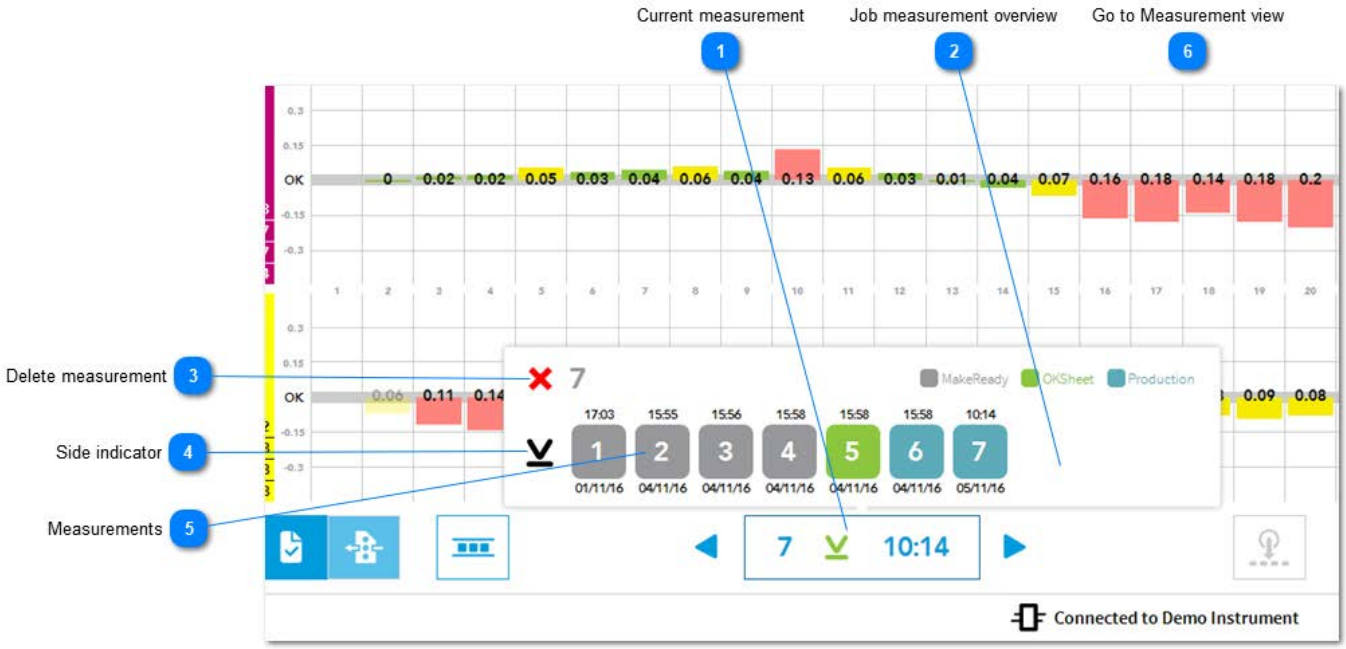
When an OK-Sheet is already set and the button is again pressed then 3 options become available to choose from :

1. Change to the currently set OK-Sheet measurement
2. Set the current measurement as a the new OK-Sheet
3. Remove the OK-Sheet

5 Go to Job Status

1.1.16. Job Status

1.1.13. Job Measurement Overview



1 Current measurement

Displays sheet number, front or back side scan and time.
Click on the area to open up the job measurement overview.

2 Job measurement overview

Displays job measurement history.

3 Delete measurement

Deletes the currently selected measurement

4 Side indicator

All scans for top / bottom side are listed here.

Top side (units before perfector)

Bottom side (units after perfector)

5 Measurements

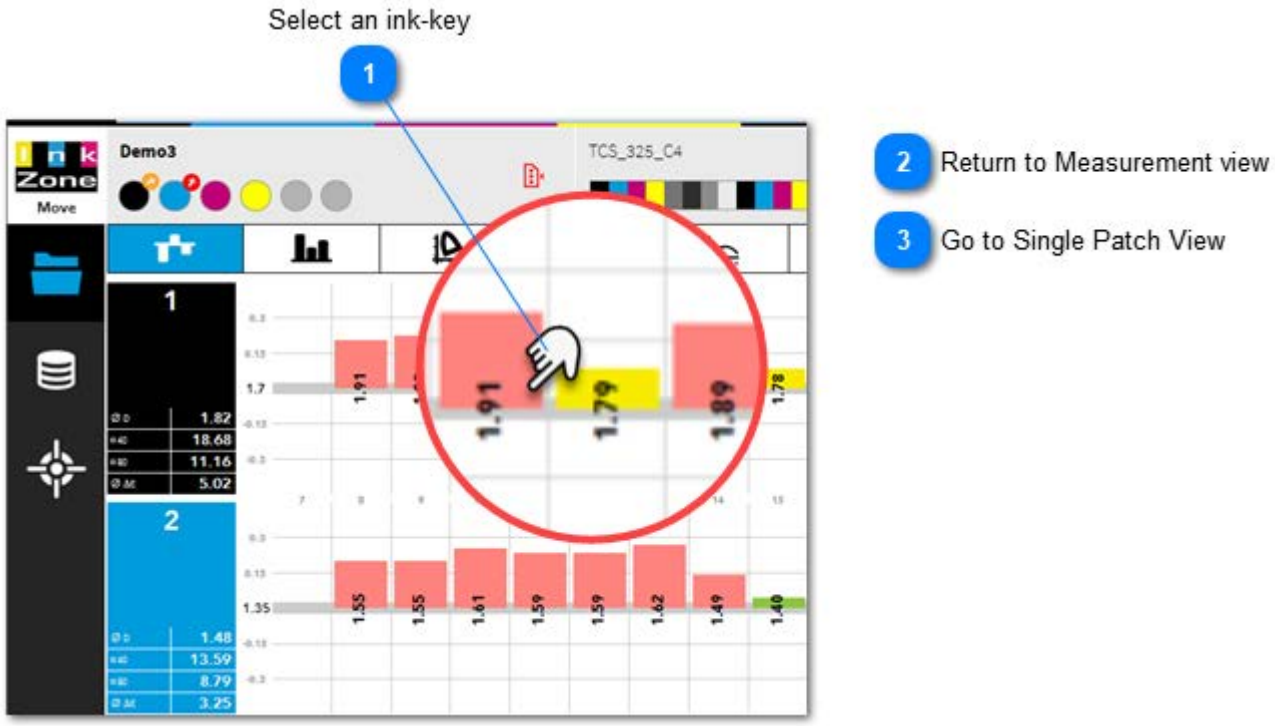
Indicates time and date on a particular measurement
Grey = MakeReady
Green = OK-Sheet
Marin = Production

6 Go to Measurement view

1.1. Measurement view

1.1.14. Ink-Key Colorbar Patch View

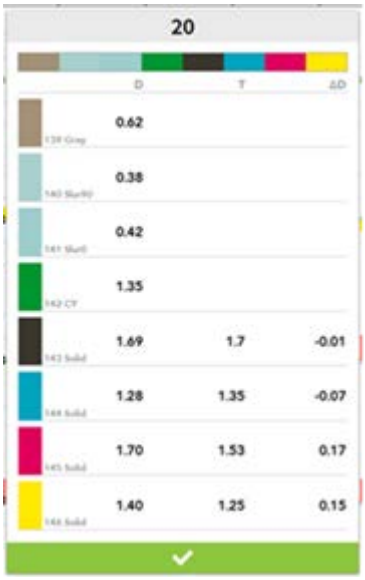
Click on a single measurement to display the density, colorimetric or TVI information data. Note that the display varies by the selected view.



1 **Select an ink-key**

Click on a single measurement to displays density, colorimetric and TVI information for all patches in the selected ink-key. The displayed data depends on the program's selected view.

Ink- key patch data in **Densitometric view**	Ink- key patch data in **Colorimetric view**



Ink- key patch data in **Dotgain view**

[D] = measured density / dot gain
[T] = target density / dot gain
[ΔD] = density difference

[L] = L value
[a] = a value
[b] = b value
[ΔE] = DeltaE
[ΔH] = DeltaH

[P] = dot percentage from patch
[Δ] = difference measured and target dot gain

2 **Return to Measurement view**

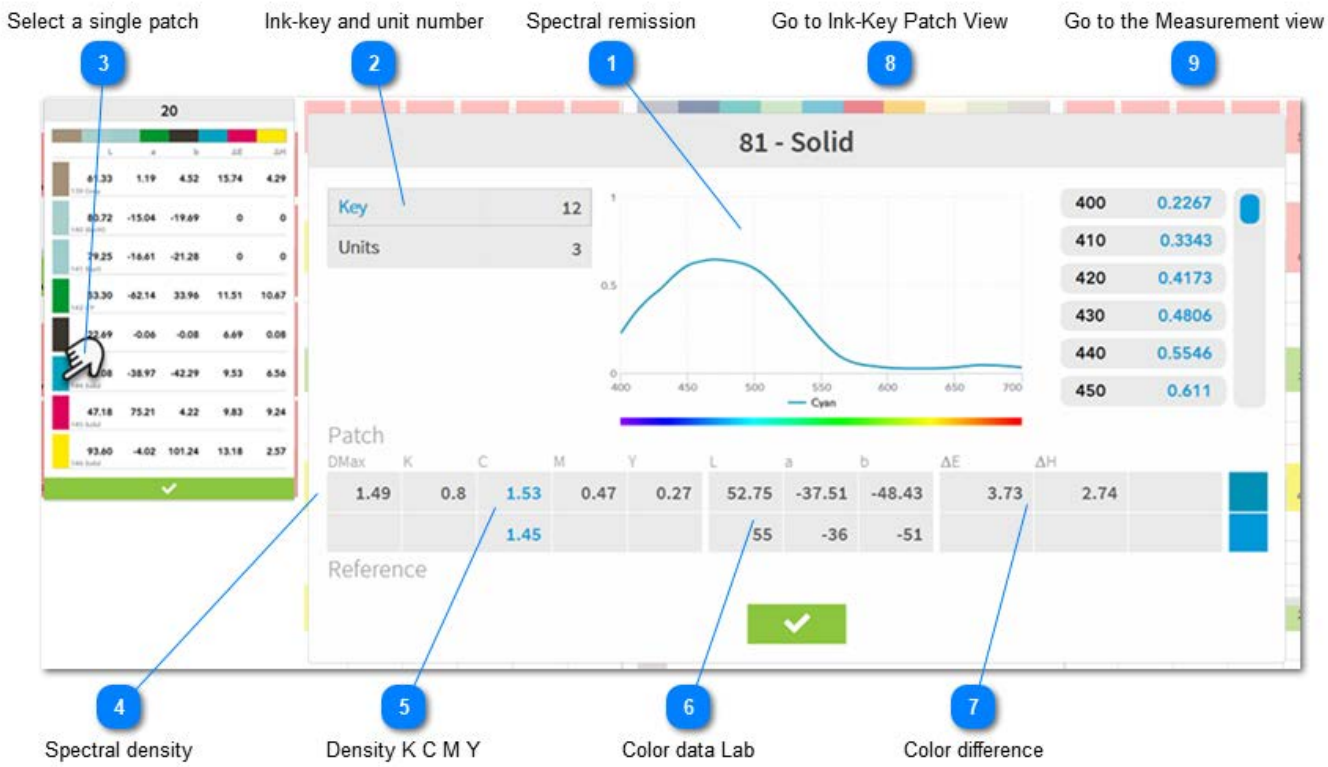
1.1. Measurement View

3 **Go to Single Patch View**

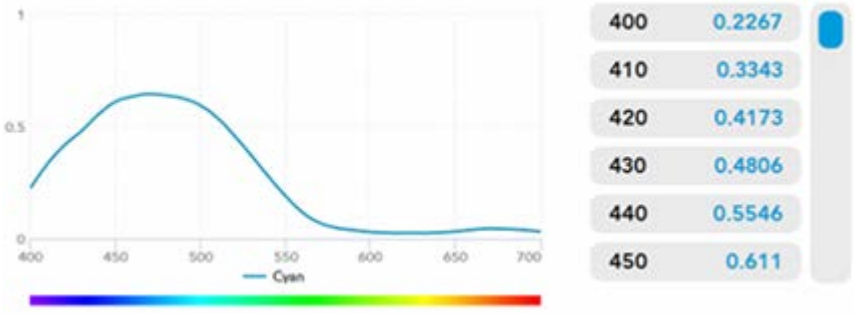
1.1.14.1. Single Patch View

1.1.14.1. Single Patch View

Preview all color information from a single patch by clicking on the patch in the ink key view.



1 Spectral remission



Spectral remission in graph and table view.

2 Ink-key and unit number

Indicates ink-key number and print unit.

3 Select a single patch

Clicking on a patch opens the single patch view.

4 Spectral density

Spectral density of the patch by default used for spot colors.

5 Density K C M Y

K	C	M	Y
0.8	1.53	0.47	0.27
	1.45		

The four densities calculated by their filters cyan, magenta, yellow and black (visual). The highest density value is automatically highlighted. The top row shows the measured patch the row below is the target value.

6 Color data Lab

L	a	b
52.75	-37.51	-48.43
55	-36	-51

Color values as Lab with top row from measured patch and its target below.

7 Color difference

ΔE	ΔH
3.73	2.74

Calculated DeltaE and DeltaH.
Note: the DeltaE method (CIE76, D2000, etc) is set in the targetset, see chapter 1.2.3.3. Edit Targetset

8 Go to Ink-Key Patch View

1.1.14. Ink-Key Patch View

9 Go to the Measurement view

1.1. Measurement View

1.1.15. Measure and Transfer Button

The button on the right starts a scan measurement with the instrument. The one on the left transfers ink-key changes to press console for color-control adjustment .

TRANSFER SCAN

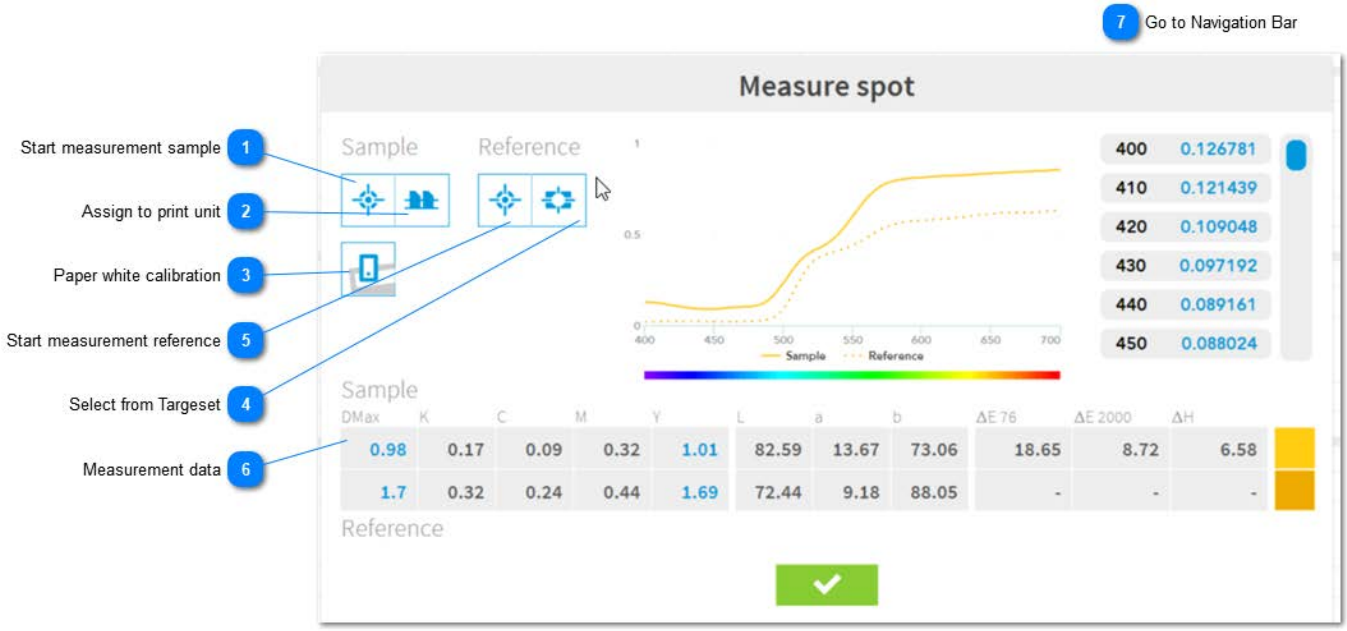
Return to 1.1. Measurement View

Transfer button for color control		**Scan button**	
Transfer button turns orange after successfully scanning the press sheet. Ink key correction for color control is available.		Progress bar indicates instrument is in scan mode	
Progress bar indicates ink-key correction is being transferred to press console		Progress bar indicates instrument finished scan and scan data is displayed	
Ink-key correction for color-control is successfully transferred			

Automate the transfer by changing the auto-key correction transfer after a scan.
See press setup: 1.2.1.2. Advanced Press Settings

1.1.16. Spot Measurement

Use a spectrophotometer for single spot measurements and compare colors. Apply the measurement as the print target for a spot color.



1 Start measurement sample

Place the spectrophotometer over the sample and start measurement.

2 Assign to print unit

First measure the color sample which becomes the print target. Then, apply it as the new Lab and density target to a print unit .

Select the print unit in the upcoming dialog:

3 Paper white calibration

Executes a paper white calibration

4 Select from Targeset

Select a reference color from a targetset

5 Start measurement reference

Place the spectrophotometer over the sample and start measuring

6 Measurement data

Sample

DMax	K	C	M	Y	L	a	b	ΔE 76	ΔE 2000	ΔH
0.98	0.17	0.09	0.32	1.01	82.59	13.67	73.06	18.65	8.72	6.58
1.7	0.32	0.24	0.44	1.69	72.44	9.18	88.05	-	-	-

Reference

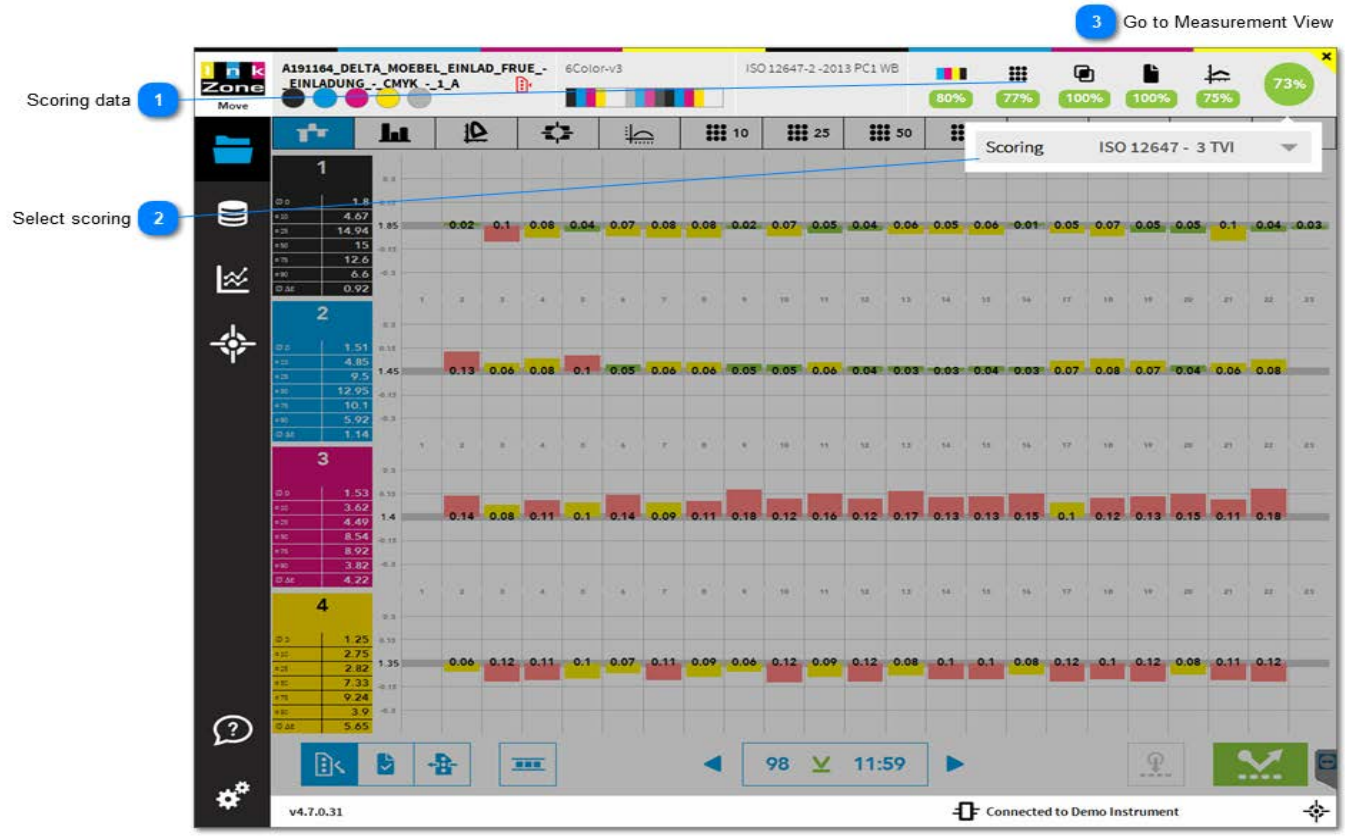
Shows measurement and reference data and their color difference as DeltaE 76, DeltaE 2000 and Delta H

7 Go to Navigation Bar

1.1.1. Navigation Bar

1.1.17. Select scoring set

Dynamically recalculates the score when changing the scoring



set.

1 Scoring data

Detailed scoring view for single criteria.
Criteria marked as "visible" are shown in this area here. See here:

2 Select scoring

Select from here a scoring set.
Note: it is only possible to select scoring sets which existed during job setup.
Hence, it's not possible to apply a scoring sets which is created after job creation.

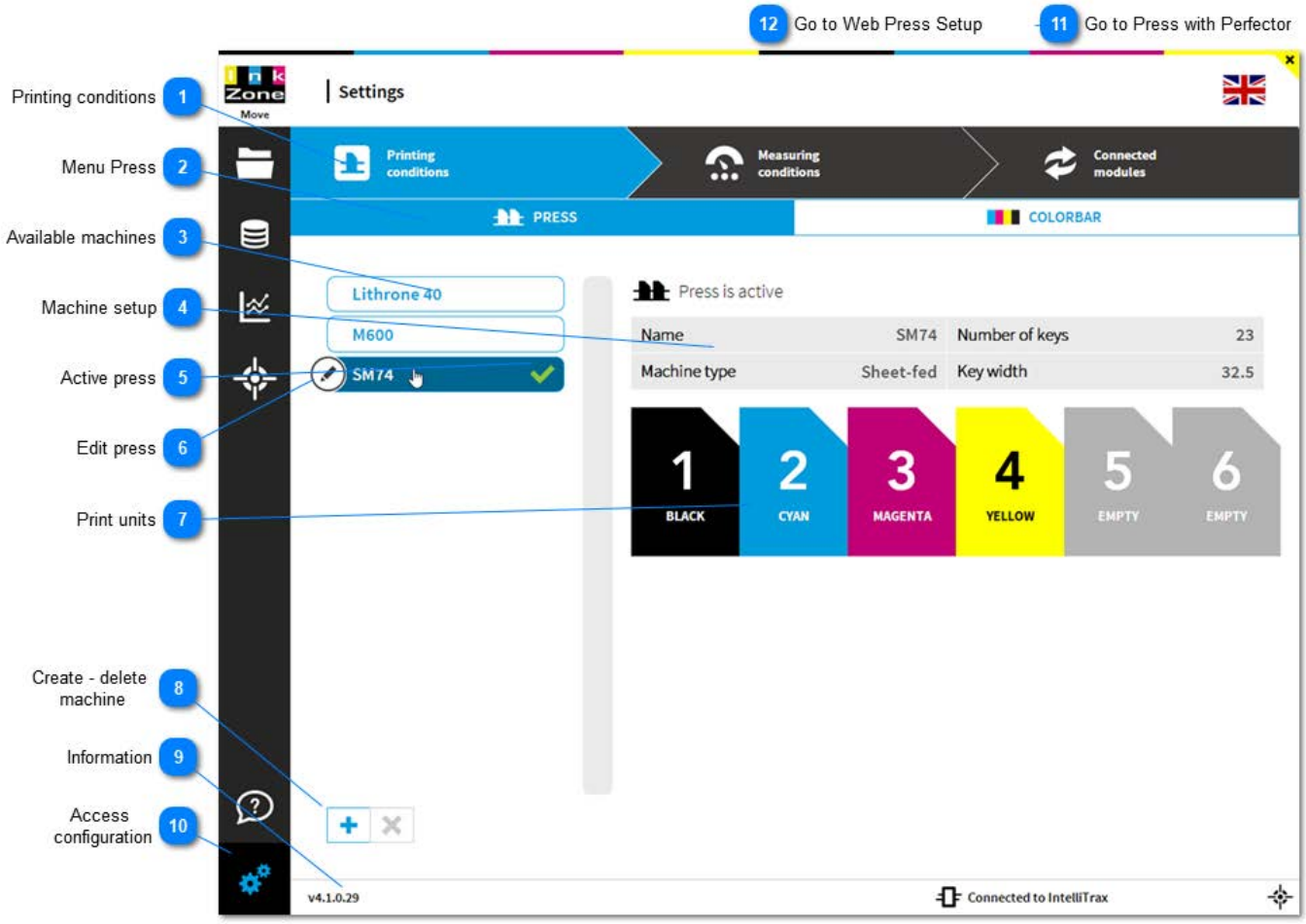
Scoring setup, see here: 1.2.5. Scoring Setup

3 Go to Measurement View

1.1. Measurement View

1.2. Software Setup

1.2.1. Press Setup



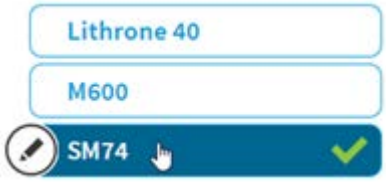
1 Printing conditions

Opens the menu Printing conditions with menu entry **a)** press setup **b)** Colorbar

2 Menu Press

Open the submenu Press

3 Available machines



All configured press machines are shown here. The current active is marked with a green tick.

4 Machine setup

Name	SM74	Number of keys	23
Machine type	Sheet-fed	Key width	32.5

Shows the press setup. Change the settings by hovering over the press name and click on the setup button on the left.

5 Active press

Indicates the current selected press. It is used for all new jobs.

6 Edit press

Hovering with the mouse pointer over the press name brings up the press edit button.

7 Print units

Shows all print units and the standard color sequence.
Press with perfector, see here

8 Create - delete machine

Add with the plus sign a new press or delete the selected one with the cross button.

9 Information

Current version is displayed.
With a click on the software release number more information about the dongle is displayed.
See 1.2.9. License Information

10 Access configuration

Start with the press machine configuration here

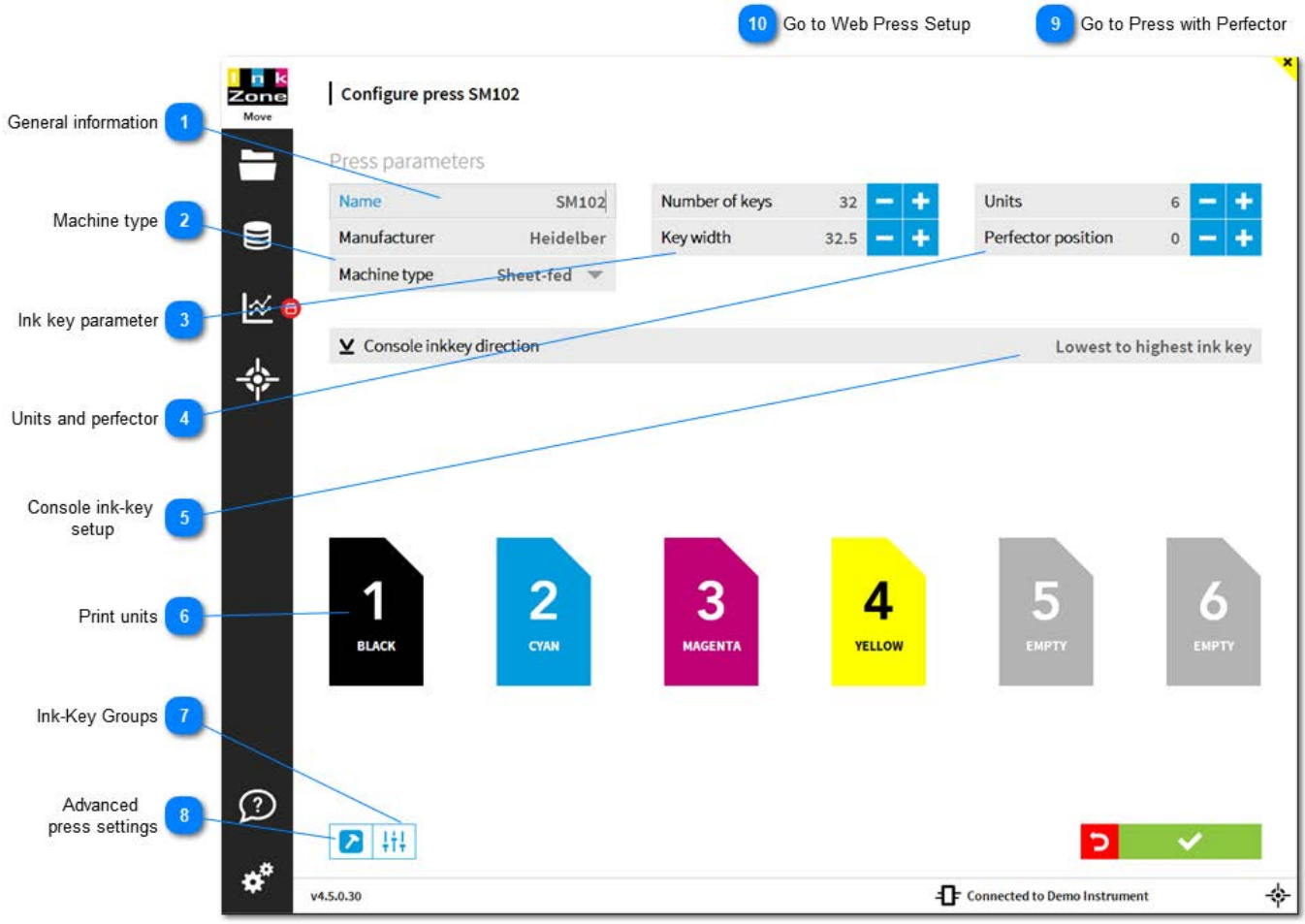
11 **Go to Press with Perfector**

1.2.1.2. Press with Perfector

12 **Go to Web Press Setup**

See 1.2.1.4. Web Press Setup

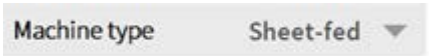
1.2.1.1. Press Machine Setup



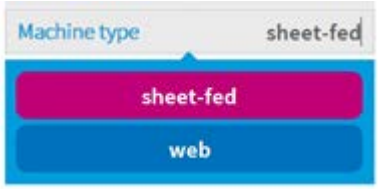
1 **General information**

Set here the press machine name and manufacturer.
This values are passed to the measurement data export files such as SVF, XML etc.

2 **Machine type**



Select either sheet-fed or web press



3 Ink key parameter

Set the number of keys and their width

4 Units and perfector

Set the number of units and the perfector position (if available). For a none perfecting press the position is on 0.

5 Console ink-key setup

Typically, on sheet fed press consoles the ink-key number 1
is on the left side and the highest ink-key is on the right.
Consequently the ink-key direction is "lowest to highest ink-key".
See more on this topic at the web-press setup: 1.2.1.4. Web Press Setup

6 Print units

.
Press colour setup.

Colour assignment:
First, click on the print unit and then select the color:

7 Ink-Key Groups

With ink-key groups, several ink keys are selected at once to quickly adjust target density.
For configuring ink-key groups, see here: 1.2.1.5. Ink-Key Groups

8 Advanced press settings

Configure further press settings. See 1.2.1.3. Advanced Press Settings

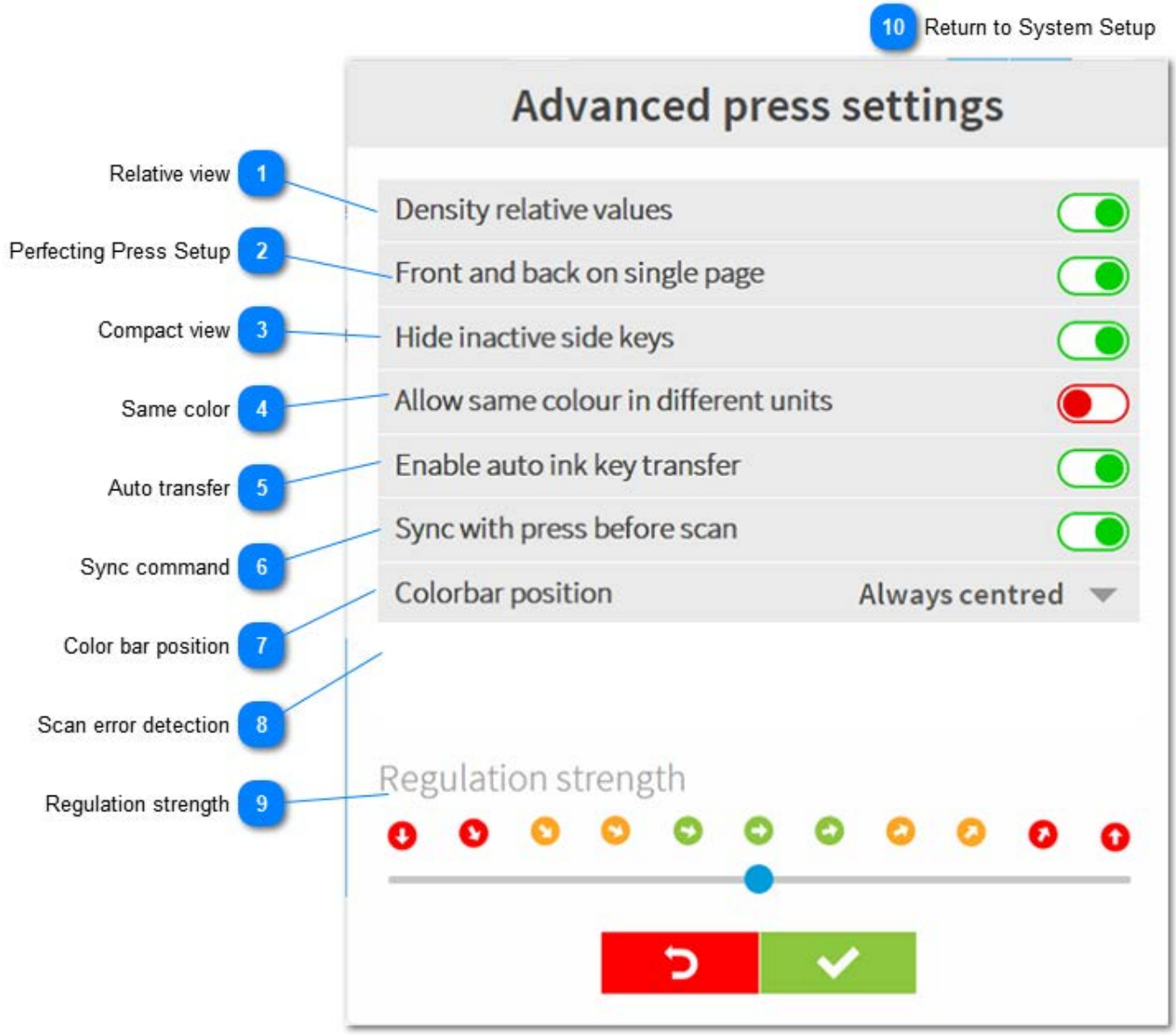
9 Go to Press with Perfector

See 1.2.1.3. Press with Perfector

10 Go to Web Press Setup

See 1.2.1.4. Web Press Setup

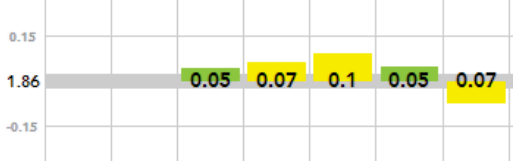
1.2.1.2. Advanced Press Settings



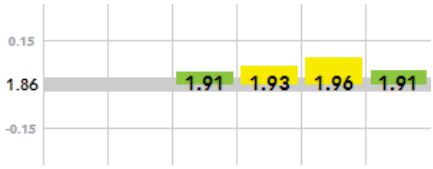
1 Relative view

Applies to the density relative measurement view.
When active measured data shows relative to target instead of the absolute density value.

Relative view



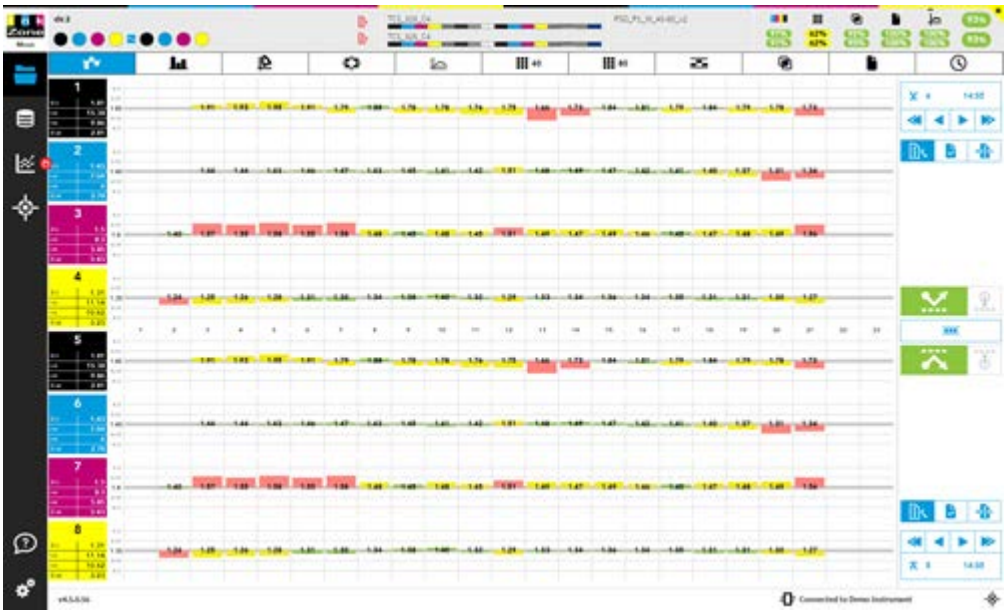
Absolute view



2 Perfecting Press Setup

Front and back on single page

It is recommended to activate when configuring the press as a perfecting press.
In the measurement view the control buttons move to the right side to gain more space in height:



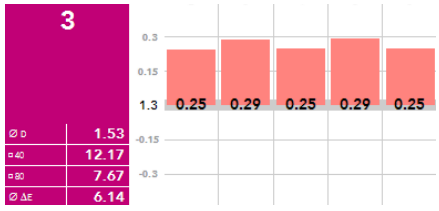
3 Compact view

Hide inactive side keys

Side ink keys without measurement are not displayed in order to get a more compact measurement data view

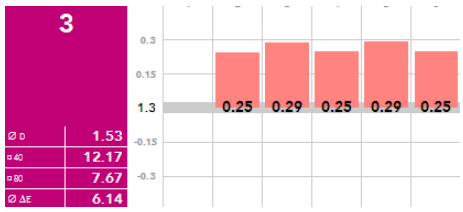
Hide active

Side ink keys without measurement data are omitted and not displayed.



Hide inactive

All ink keys from press setup are shown even when no measurement data is available for side ink keys.

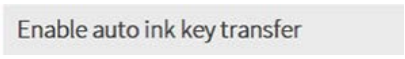


4 Same color

Allow same colour in different units

When active the software allows to use a specific color in more than one print unit

5 Auto transfer



After scanning a press sheet the software automatically transfers data to InkZoneLoop/console for color-control.

6 Sync command

Activate when InkZoneLoop is used. During the scan operation InkZoneLoop synchronizes its ink key position with the press.

7 Color bar position

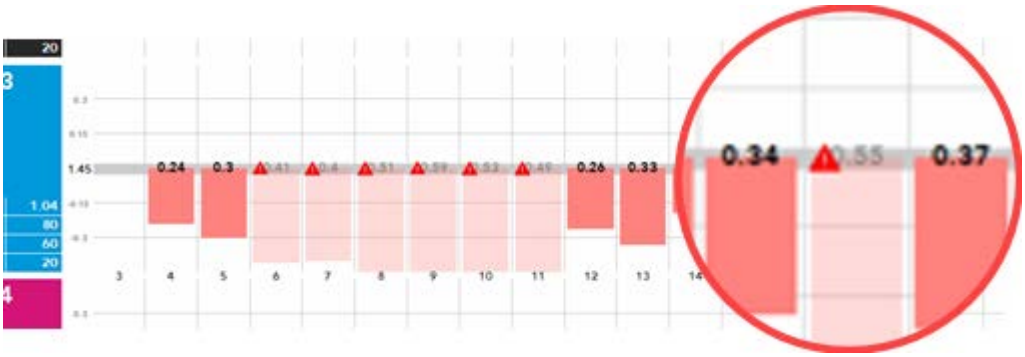
Select from the drop down menu one of the two options:

When selecting **always centred**, the colobar measurement data is aligned centred over the ink-keys
The option **centred and shifted** lets the operator choose how the color bar is aligned. When selecting shifted, the start key is set in the job setup screen.

8 Scan error detection

Enter a density value to detect wrong scan data. When the scan data exceeds the setup value, the key will be not regulated.
Sample:
Target density setup = 1.55
Measurement = 0.3
Setup "disable key for out of range density " = 0.85
Difference of target / measurement = 1.55 - 0.3 = 1.25
The difference 1.25 exceeds the setup value 0.85. The ink key will be not regulated

An ink-key affected by the "out of range" value is shown with a red warning triangle and is not regulated.



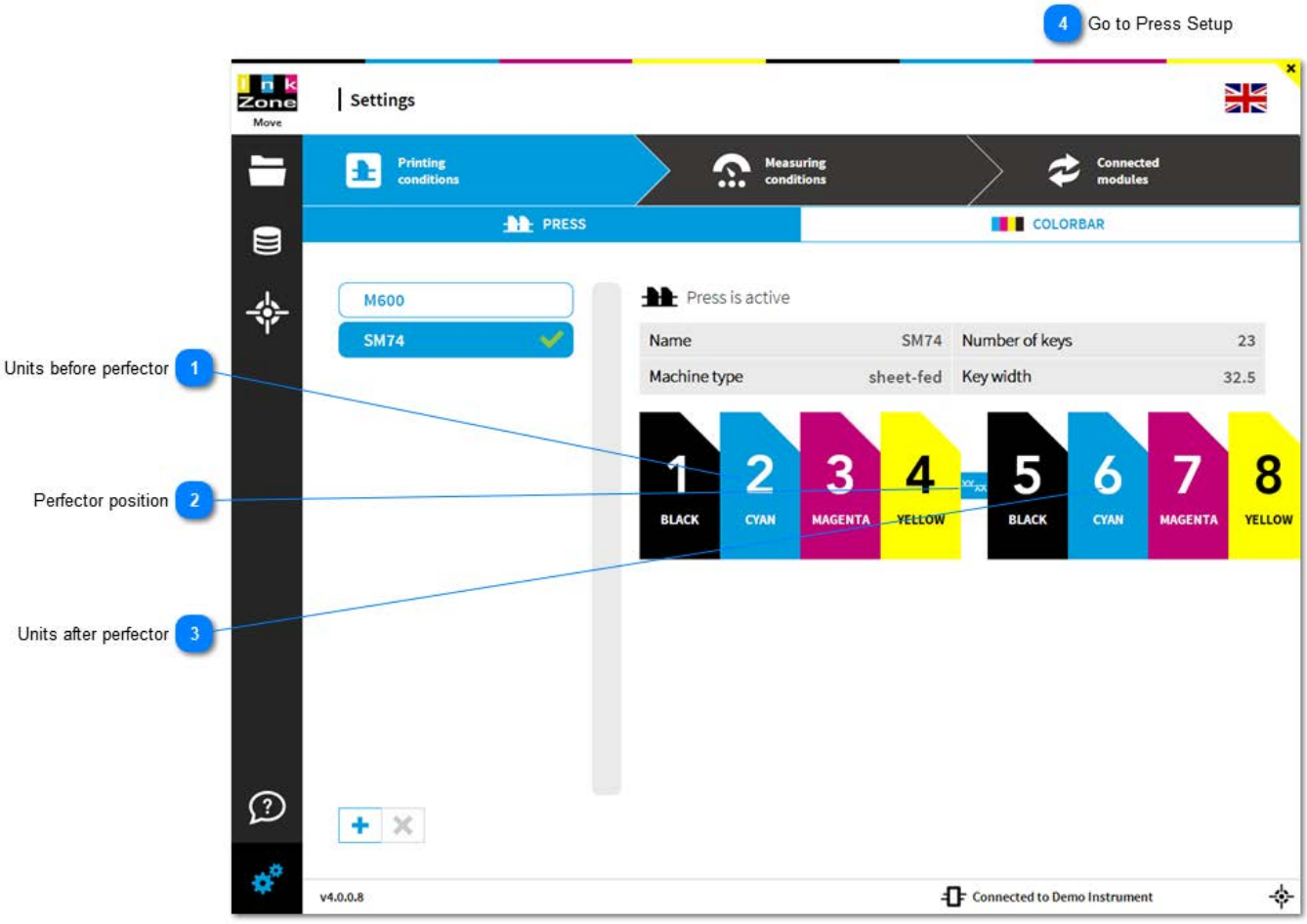
9 Regulation strength

A general regulation change for all units.

10 Return to System Setup

1.2.7. System Setup

1.2.1.3. Press with Perfector



1 Units before perfector

Print units with color sequence for units before the perfector

2 Perfector position

Perfector indicator and position in the press

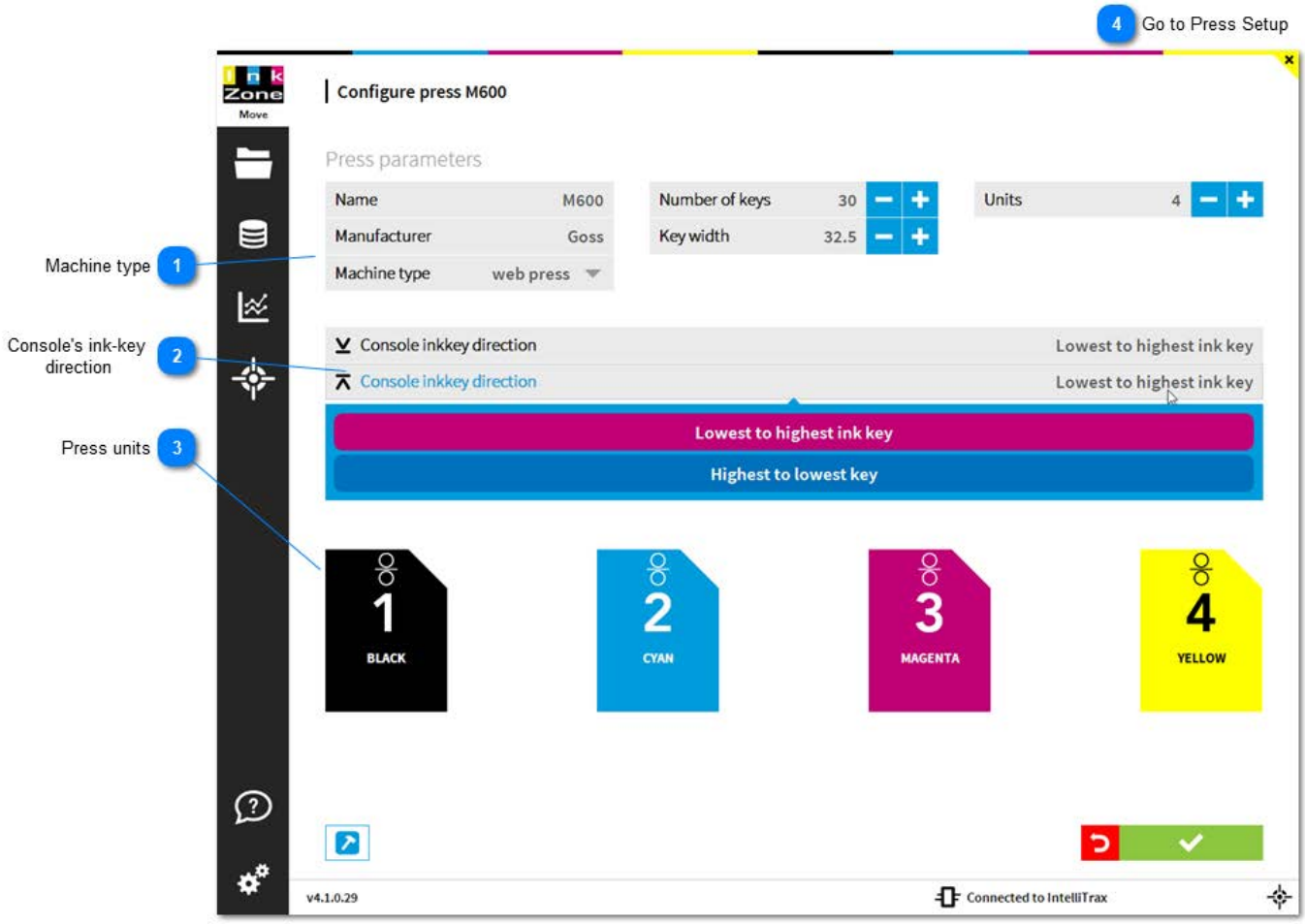
3 Units after perfector

Print units with color sequence for units after the perfector

4 **Go to Press Setup**

1.2.1. Press Setup

1.2.1.4. Web Press Setup



1 Machine type

Machine

2 Console's ink-key direction

For some web presses with two consoles, one for upper side and one for the lower side units, the ink-key direction on the console desks are not necessarily the same.

On one console side the key nr 1 is on the left which means to use the setting "Lowest to highest inkkey", e.g. 1 to 32.

For the other side, the ink key on the left is the highest and the lowest is on the right, e.g. 32 to 1.
For this case change the ink-key direction to "highest to lowest ink key".

3 Press units

Each print tower indicates an upper and lower print unit.
A press with 4 print towers is setup with 4 units.

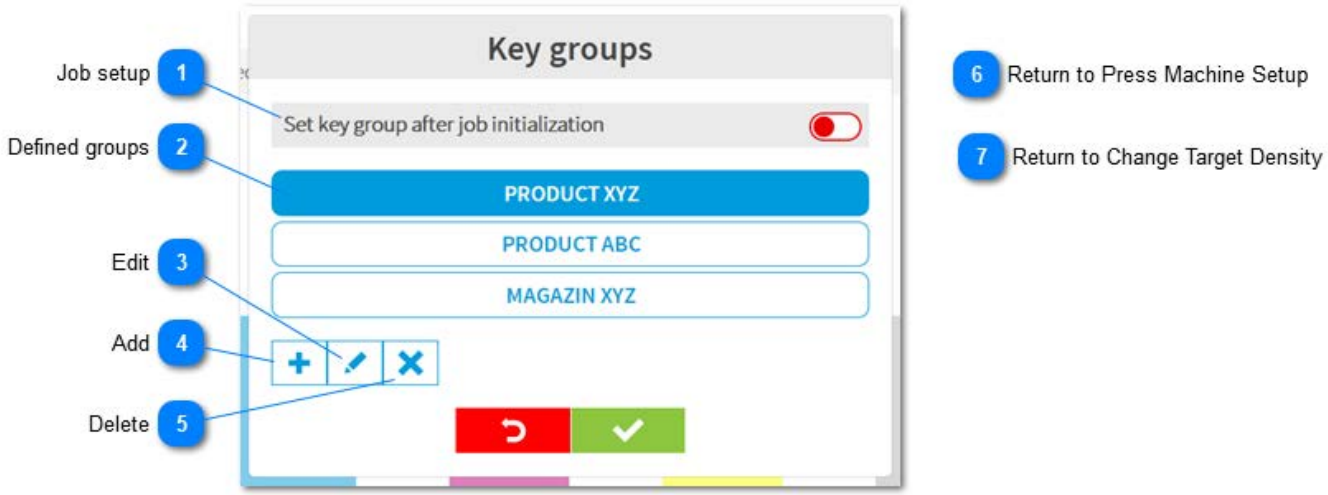
Note:
in IZPerfect/Loop version 6 and 7 you still need to setup 8 units for such web press.

4 Go to Press Setup

1.2.1.4. Web Press Setup

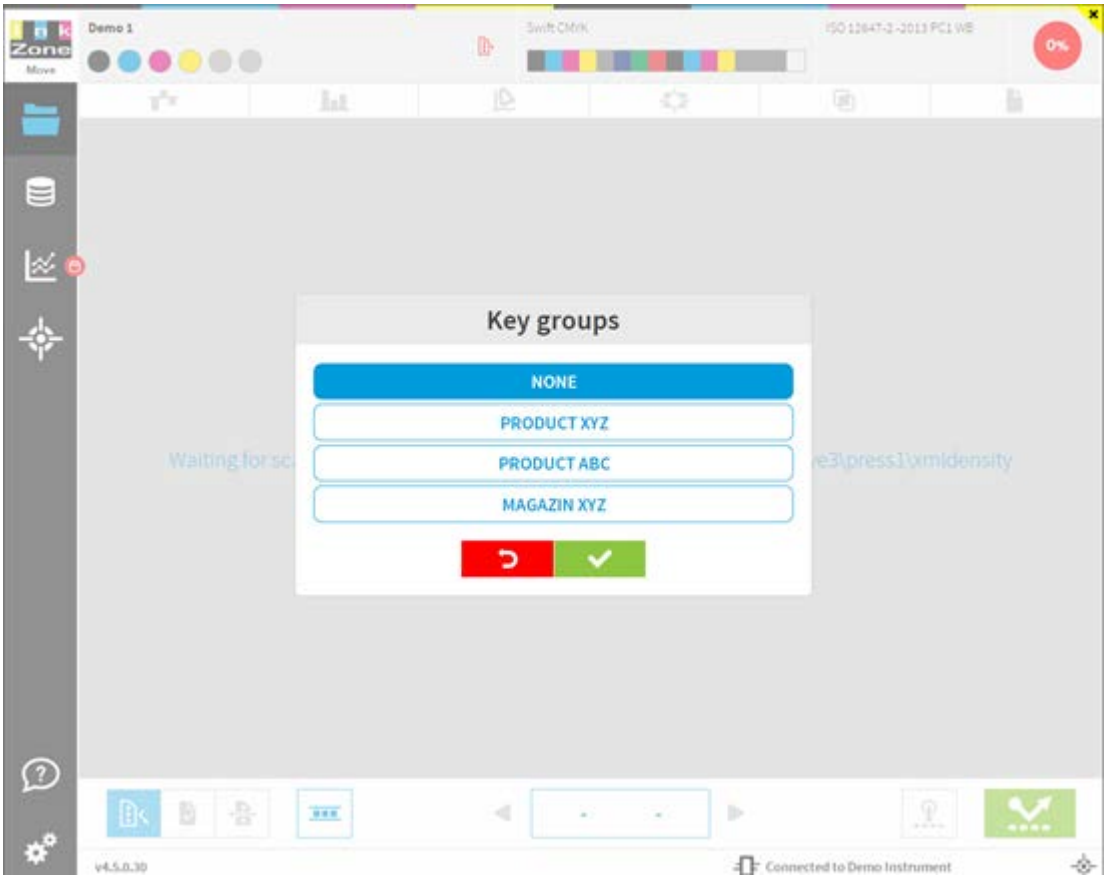
1.2.1.5. Ink-Key Groups

How to use <Key Groups> during production, see : 1.1.2.4. Change Target Density with <Group Ink-Keys> feature



1 Job setup

When active, the user is asked to choose from one of the predefined ink-key groups after initial job setup. Like:



2 Defined groups

<TODO>: Insert description text here...

3 Edit

Edit ink-key group, see here: 1.2.1.5.1. Add - Edit Key Group

4 Add

Add a new ink-key group, see here 1.2.1.5.1. Add - Edit Key Group

5 Delete

Delete an existing ink-key group

6 Return to Press Machine Setup

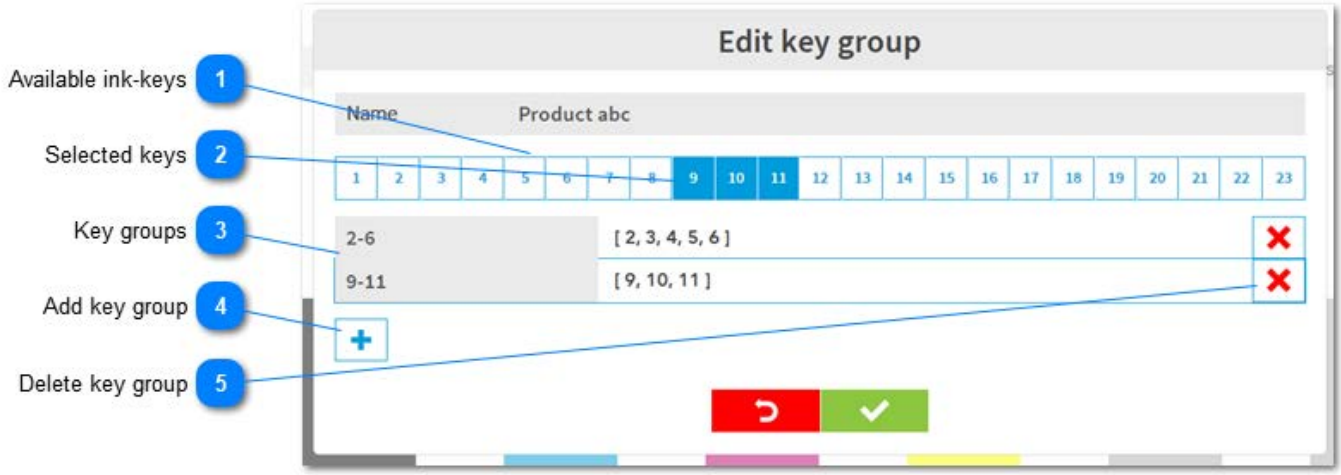
1.2.1.1. Press Machine Setup

7 Return to Change Target Density

1.1.2.4. Change Target Density with <Group Ink-Keys> feature

1.2.1.5.1. Add - Edit Key Group

How to sue during production see here:



1 Available ink-keys

All ink-keys from the press are listed. Select from here the keys

2 Selected keys

Selected ink-keys

3 Key groups

All ink-key groups are displayed here with the key group's name on the left and the keys on the right.

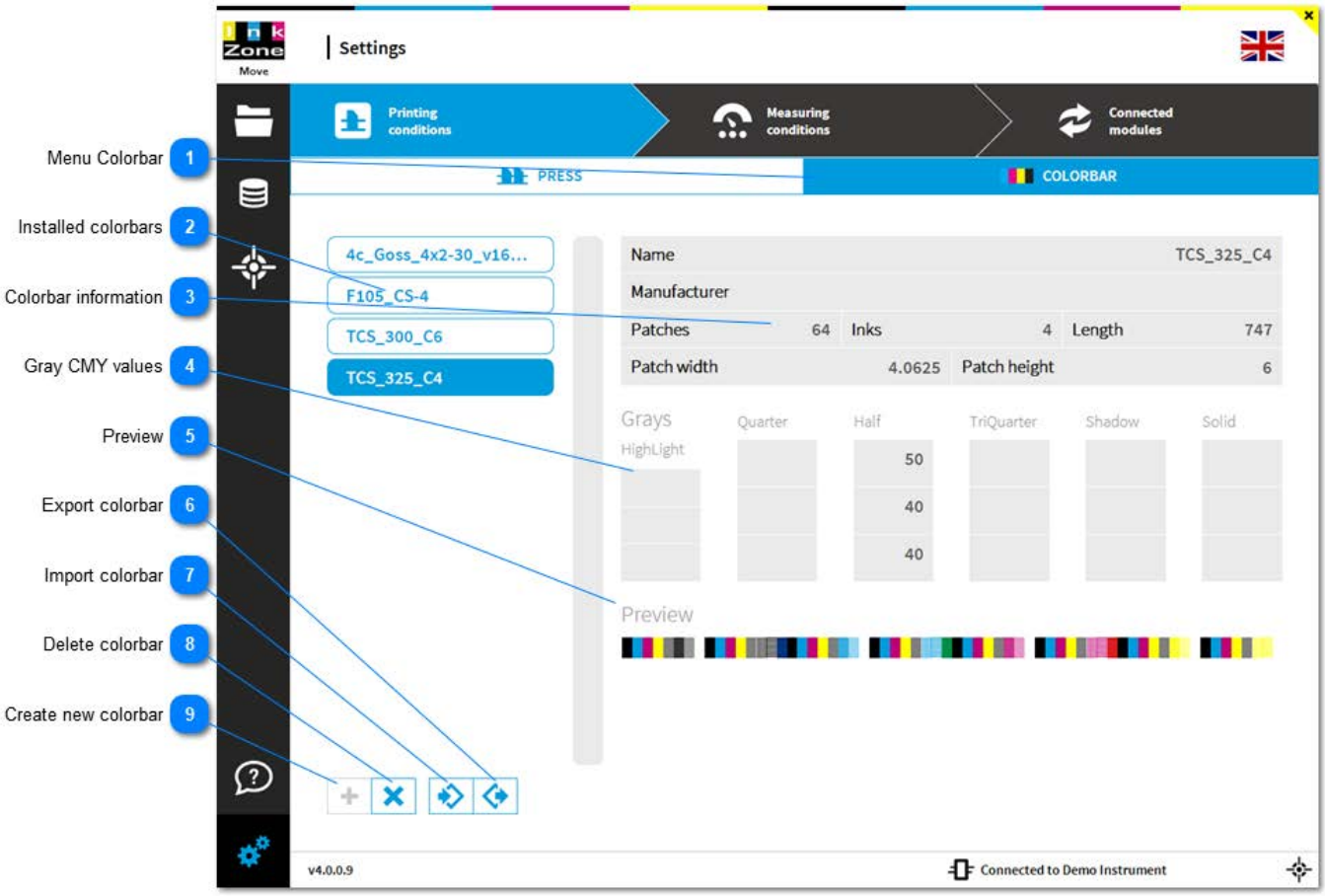
4 Add key group

Adds a new ink-key group. Set the name and select the ink-keys

5 Delete key group

Delete an existing ink-key group

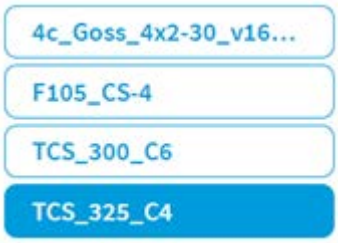
1.2.2. Colorbar Setup



1 Menu Colorbar

Opens the submenu Colorbar

2 Installed colorbars



Shows all available colorbars and the currently selected one.

3 Colorbar information

Name					TCS_325_C4
Manufacturer					
Patches	64	Inks	4	Length	747
Patch width		4.0625	Patch height		6

Detailed colorbar information.

4 Gray CMY values

CMY combination for gray patches.

5 Preview

Colorbar preview

6 Export colorbar

Exports the selected colorbar

7 Import colorbar

Imports a CBF or STP colorbar definition file.
See the CBF colobar description here: CBF Colorbar definition

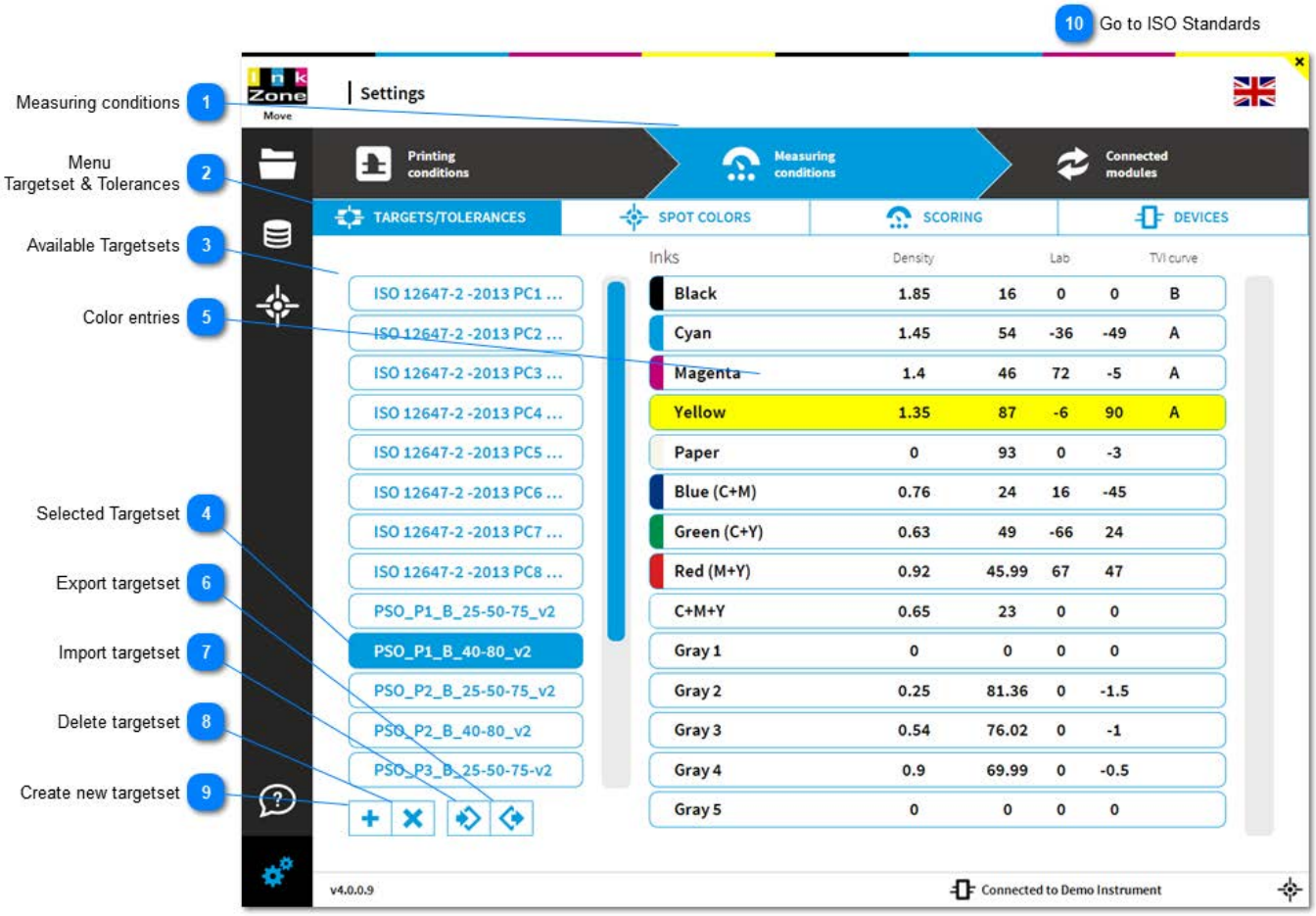
8 Delete colorbar

Deletes the selected colorbar

9 Create new colorbar

Create a new colorbar with the colorbar editor

1.2.3. Targetset & Print Tolerance Setup



1 Measuring conditions

Opens the menu Measuring Conditions with menu entry **a)** standard printing targetset **b)** spot-color target sets **c)** scoring **d)** scan device setup.

2 Menu Targetset & Tolerances

Opens the submenu Targetset / Tolerances

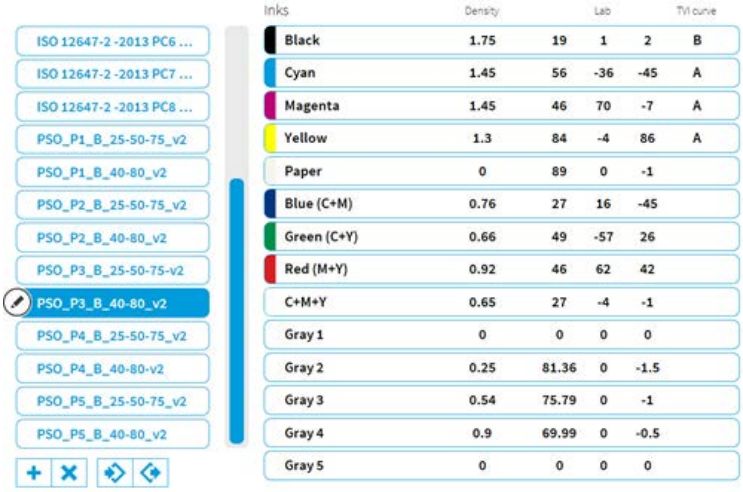
3 Available Targetsets

Currently installed targetsets

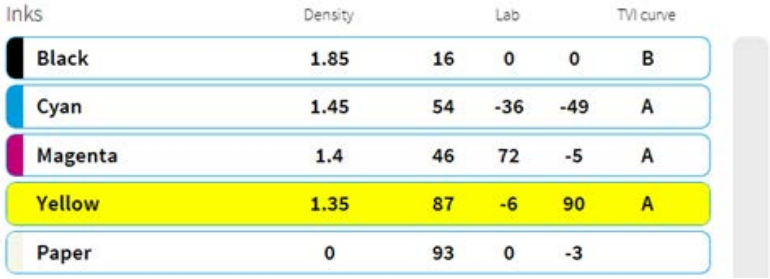
4 Selected Targetset

PSO_P1_B_40-80_v2

Currently selected targetset. The shown color entries on the right refer to this target.



5 Color entries



Color entries from selected targetset. Click on the color for editing.
See here: 1.2.3.1. Edit Color

6 Export targetset

Export selected targetset

7 Import targetset

Import targetset data

8 Delete targetset

Delete the currently selected targetset

9 Create new targetset

Create a new targetset.
See 1.2.3.2. New Targetset

10 Go to ISO Standards

See here: 1.2.3.4.1. ISO 12647-2:2013

1.2.3.1. Edit Color

1 Targetset name

PSO_P2_B_25-50-75_v2

This color is from the targetset indicated here

2 Color name

Yellow

Color name as it appears on the measurement and job setup screen

3 Lab target

Lab target value

4 Target density with tolerance

Don't forget to set front and the back side target for perfecting machines.

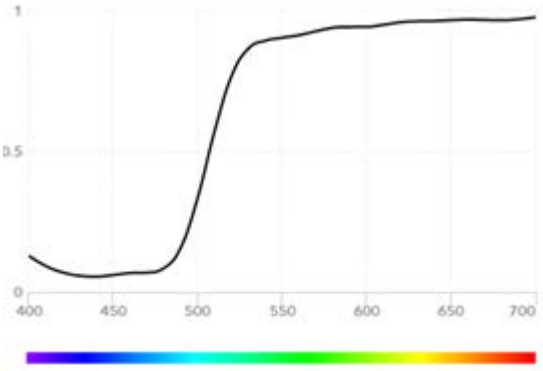
With this setup the density for front side printing is displayed as:

< 1.15	red
1.15 - 1.19	yellow
1.20 - 1.30	green
1.31 - 1.35	yellow
> 1.35	red

5 Front / Back target selector

Setup an individual density target for front and back side.

6 Spectral remission



Spectral remission curve

7 DeltaE tolerance

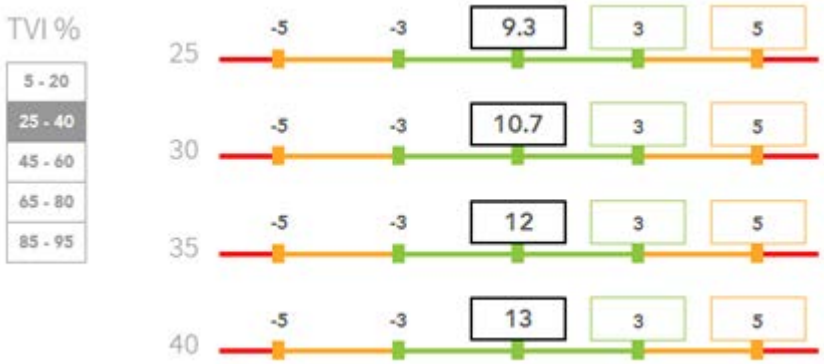
Color tolerance in DeltaE

With this setup the DeltaE is displayed as:

DeltaE < 6	red
DeltaE 5 - 6	yellow

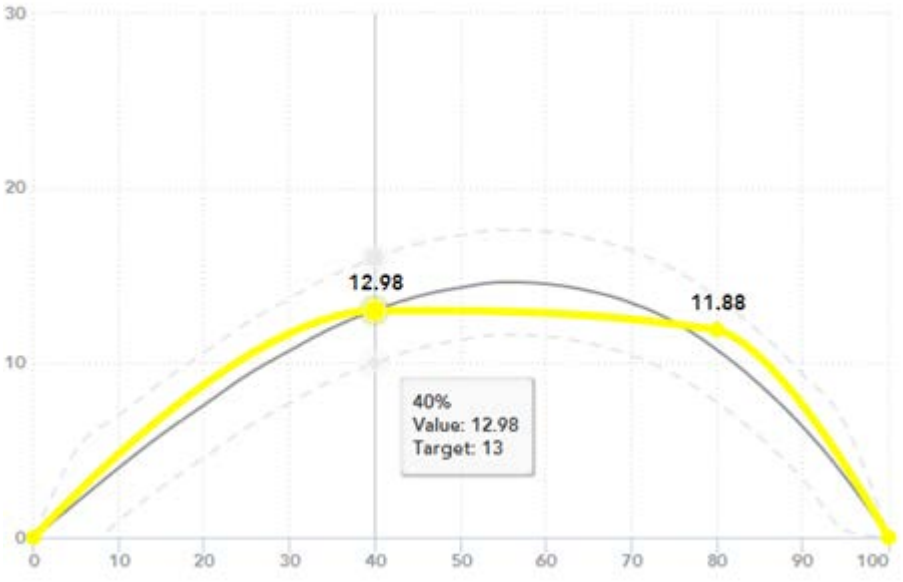
DeltaE 0 - 5 green

8 TVI values with tolerance

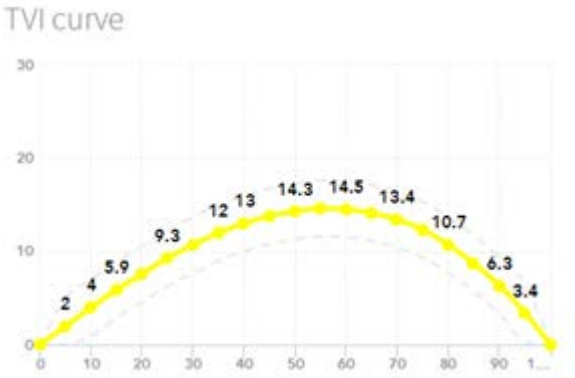


With this setup the TVI curve in the 40% is displayed as:

TVI 40%	< 8	red
TVI 40%	8 - 10	yellow
TVI 40%	10 - 16	green
TVI 40%	16 - 18	yellow
TVI 40%	> 18	red



9 Visualized TVI curve



TVI curve with targets

10 TVI curve type

Select from a predefined TVI A to F curve or use a linear curve setup

11 Cancel / Store

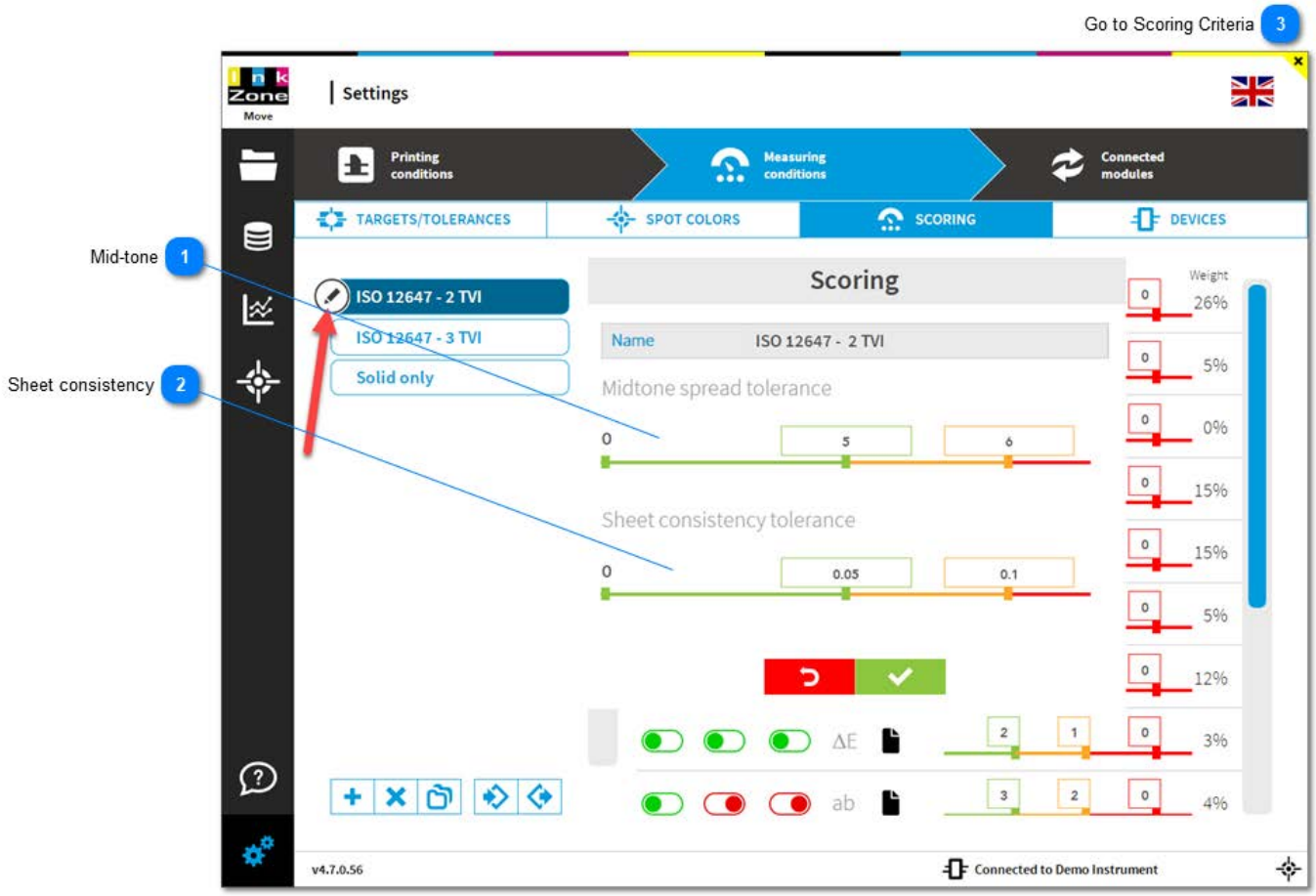
Dismiss change / accept change

12 Return to Scoring Setup

1.2.5. Scoring Setup

1.2.3.1.1. Tolerance for Mid-tone and Sheet Consistency

When hovering over the left side of the targetset name (see red arrow), the tolerance setup for mid-tone spread and sheet consistency is shown.



1 Mid-tone

Set-up tolerances for mid-tone spread.
It compares the TVI mid-tone value (40 or 80%) of C,M and Y.

2 Sheet consistency

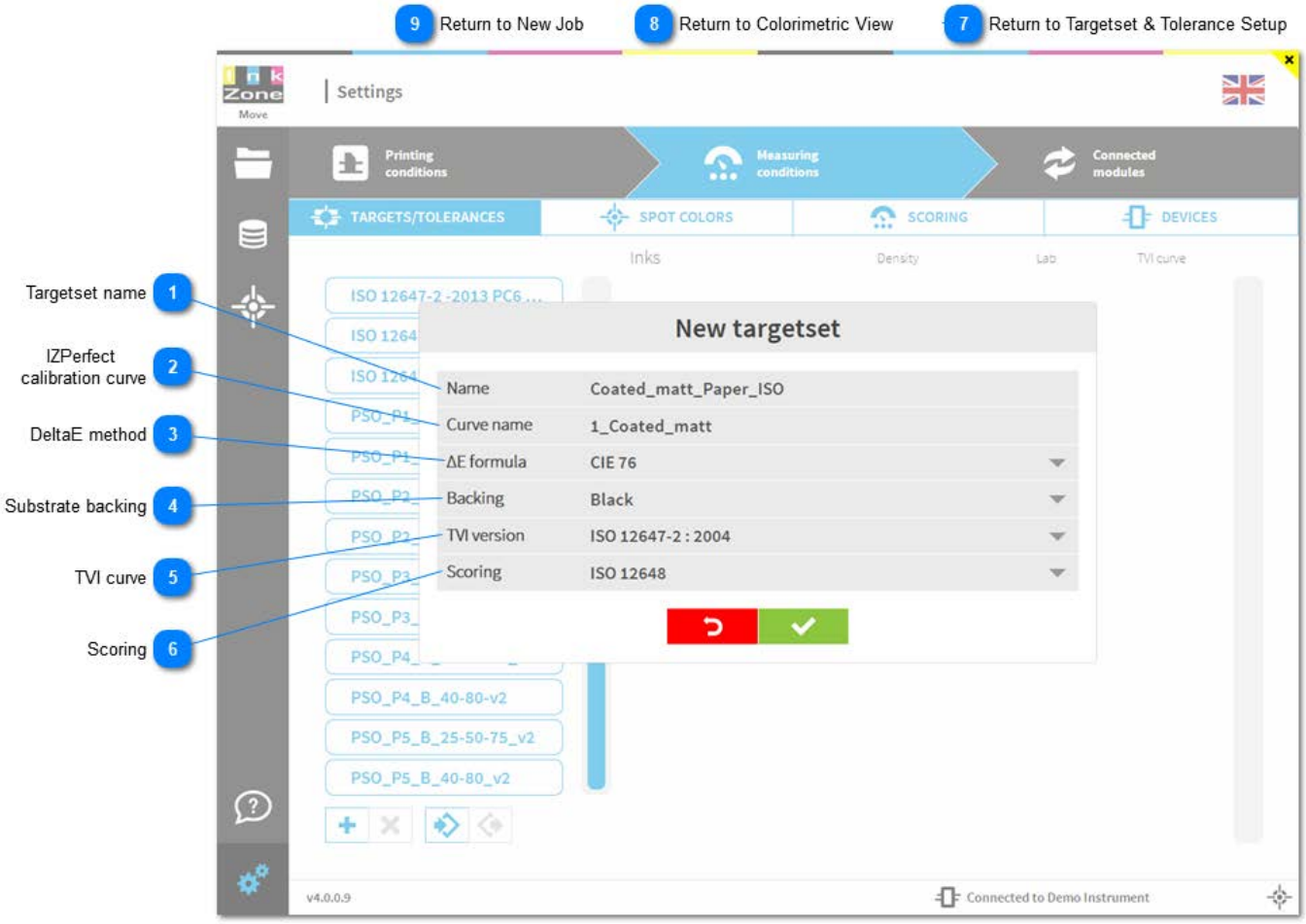
Set-up tolerances, deviation from density average, for every printed color.
The sheet consistency density value compares the solid patch distribution to the average density.
A good sheet consistency means that the density across the sheet has been perfectly leveled out:

With a low consistency value, the density across the sheet varies a lot:

3 **Go to Scoring Criteria**

1.2.5.3. Scoring Criteria

1.2.3.2. New Targetset



1 Targetset name

Name	Coated_matt_Paper_ISO

Set an unique name for the color targetset.
A targetset is used for every job to define its color standard

2 IZPerfect calibration curve

Curve name	1_Coated_matt

Select here the ink preset calibration curve used by InkzonePerfect when a new job is prepared.
When a new job is sent from InkzonePerfect to IZMove the "calibration curve" information is passed to IZM. With this information, IZMove loads the corresponding, or let's say linked, targetset in IZMove automatically.
See 1.2.3.2.1. Calibration Curve InkzonePerfect

3 DeltaE method

ΔE formula	CIE 76

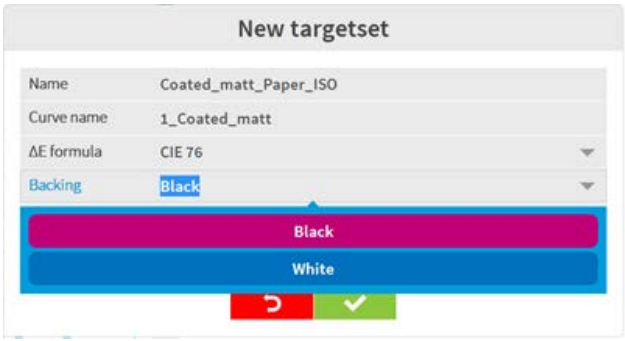
Select the DeltaE formula to be used.

4 Substrate backing

Backing	Black

Choose between black and white substrate backing.

The ITX and ETX are always black backing. ISO requires black substrate backing.



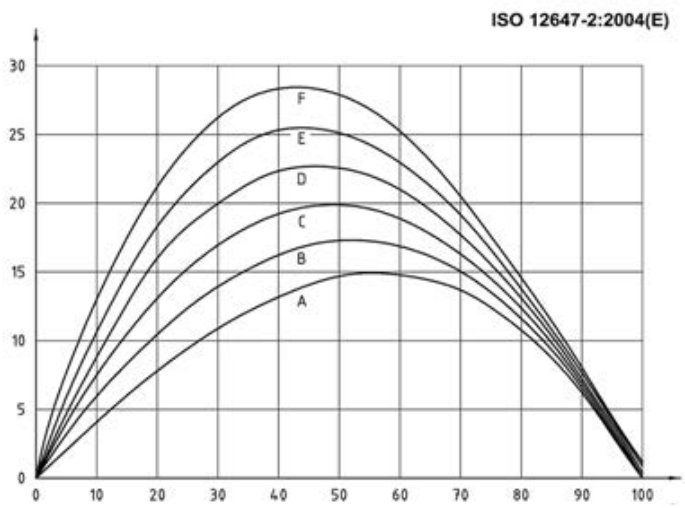
5 TVI curve

TVI version	ISO 12647-2 : 2004

Choose between the TVI curve definition from 2004black and white substrate backing.

TVI 12647-2 2013

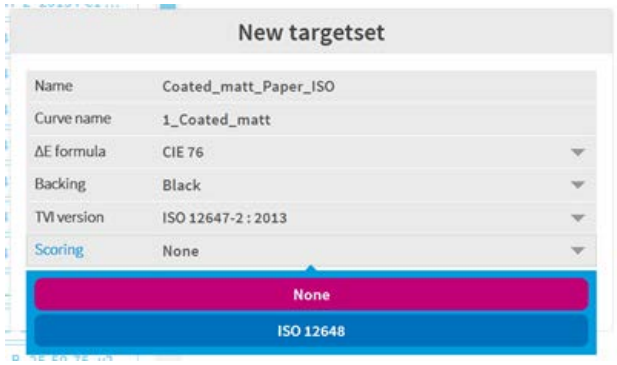
TVI 12647-2 2004



6 Scoring

Scoring	ISO 12648

Select the scoring set. See here:
[1.2.5. Scoring Setup]



7 Return to Targetset & Tolerance Setup

[1.2.3. Targetset & Print Tolerance Setup]

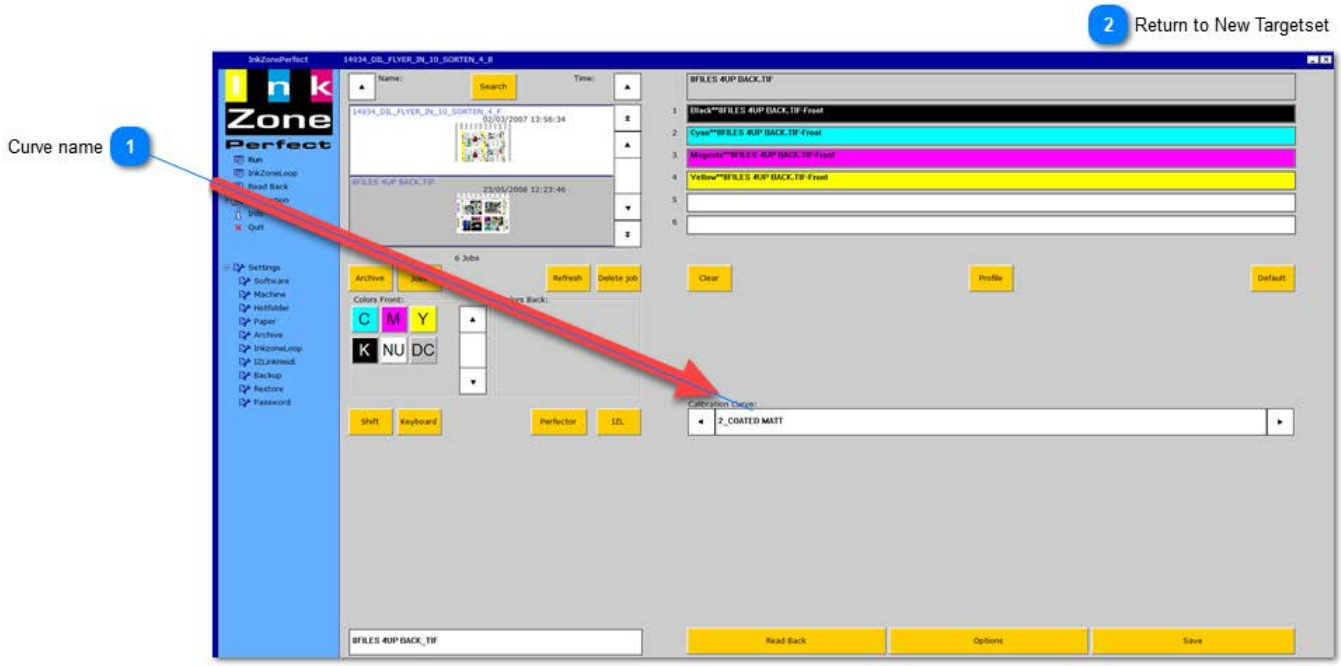
8 Return to Colorimetric View

[1.1.4. Colorimetric View]

9 **Return to New Job**

1.3.2. New Job

1.2.3.2.1. Calibration Curve InkzonePerfect



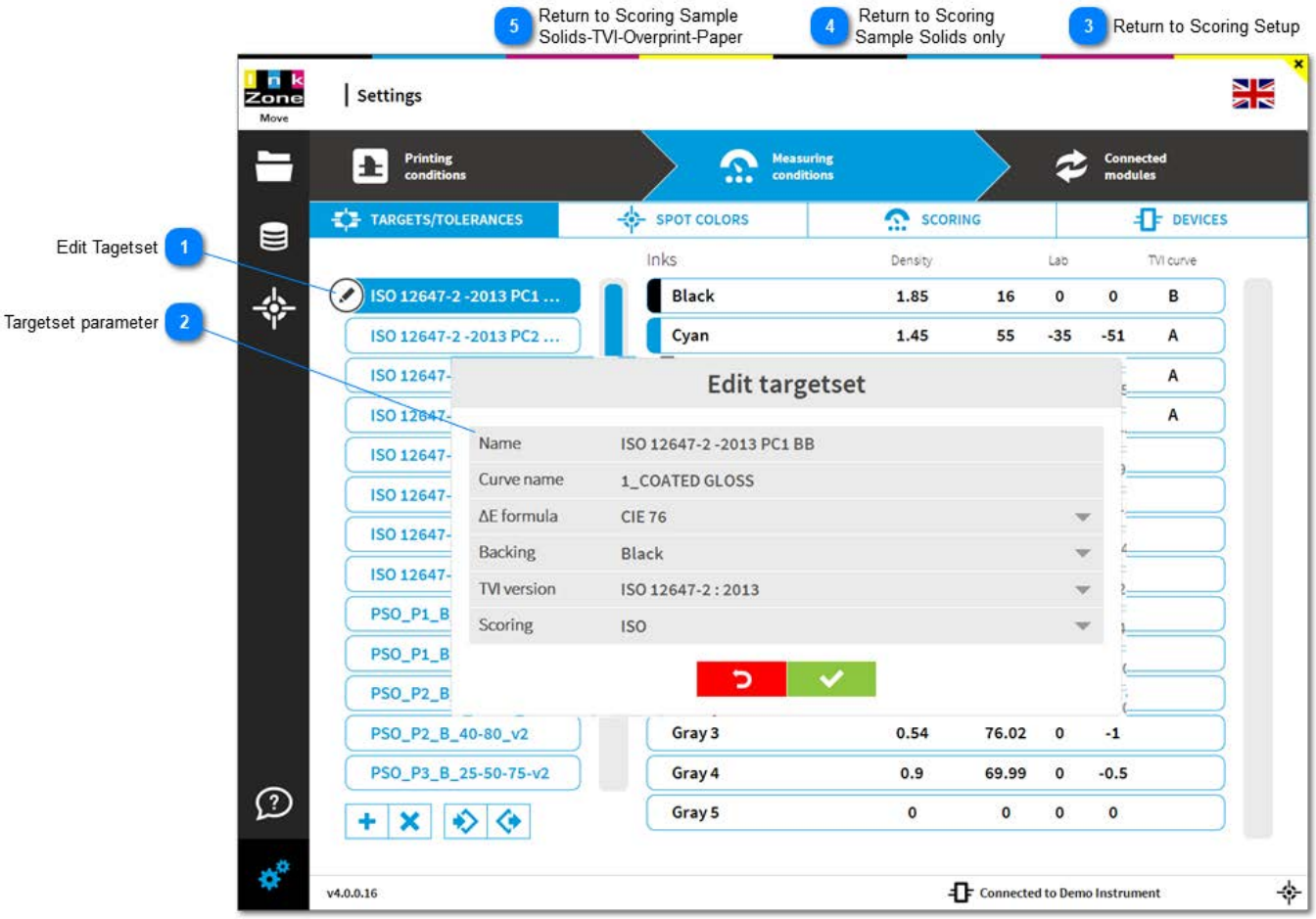
1 Curve name

The calibration curve name is passed to IZMove to select the print targetset.

2 Return to New Targetset

1.2.3.2. New Targetset

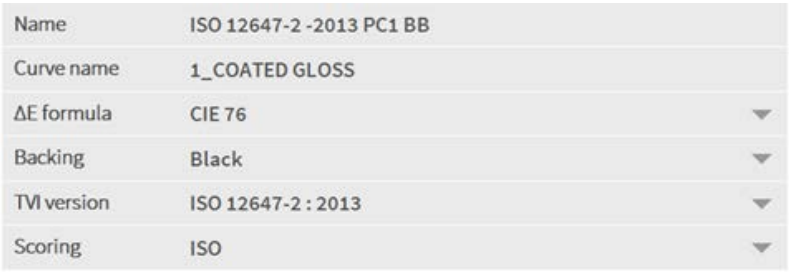
1.2.3.3. Edit Targetset



1 Edit Tagetset

Hoover over the targetset and click on edit (pen icon on the left). The targetset setup window is displayed.

2 Targetset parameter



Modify the targetset parameter from here.
See details 1.2.3.2. New Targetset

3 Return to Scoring Setup

1.2.5. Scoring Setup

4 **Return to Scoring Sample Solids only**

1.2.5.1. Scoring sample - Solids only

5 **Return to Scoring Sample Solids-TVI-Overprint-Paper**

1.2.5.2. Scoring sample - Solids-TVI-Overprint-Paper

1.2.3.4. Standards

1.2.3.4.1. ISO 12647-2:2013

1.2.3.4.1.1. Paper Types

There are 8 different paper types listed in the ISO 2013 standard.

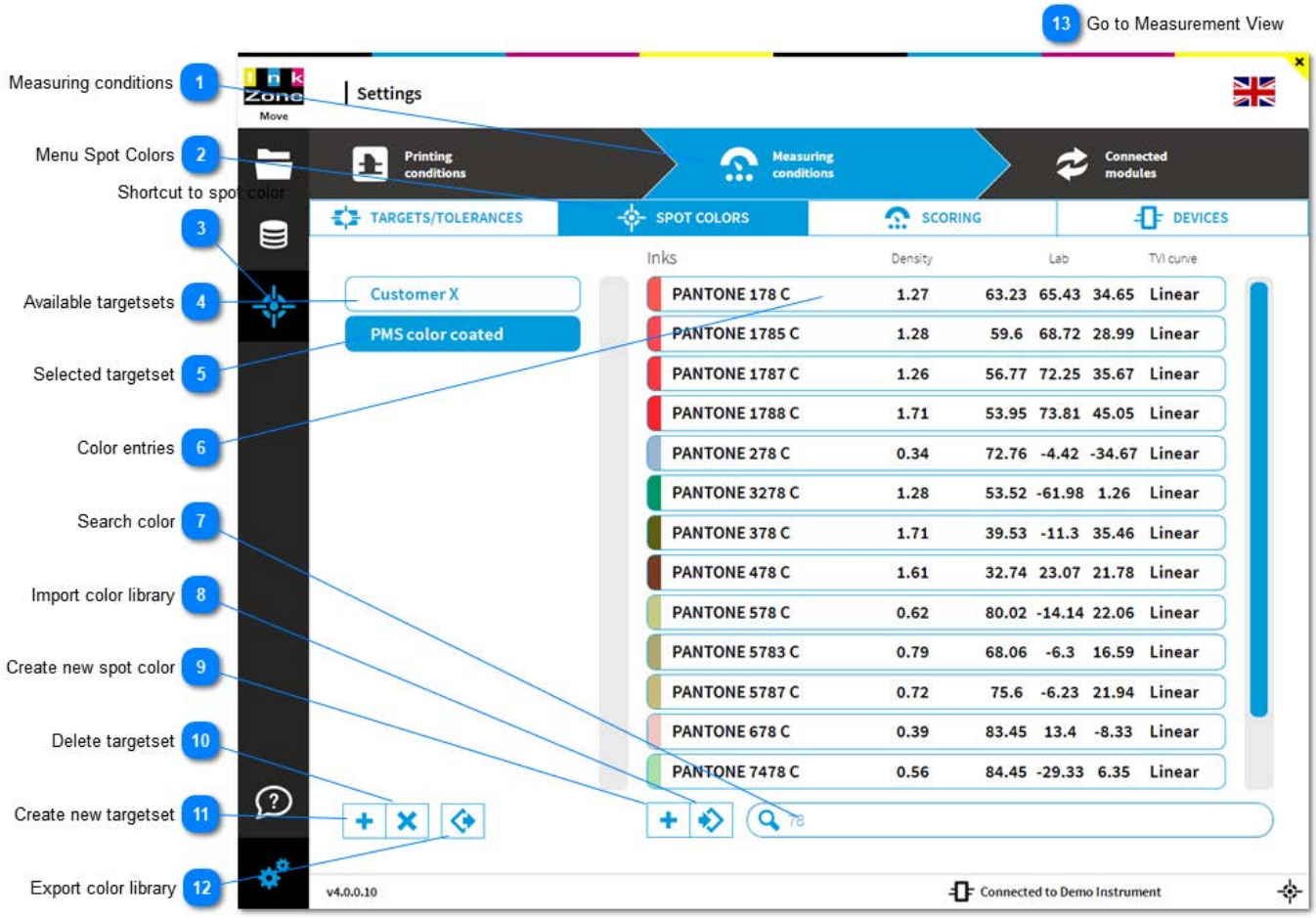
	Paper type and surface			
	PS1	PS2	PS3	PS4
Type of surface	Premium coated	Improved coated	Standard glossy coated	Standard matte and semi-matte coated
Typical process	Sheet-fed offset Heat-set web offset	Heat-set web offset	Heat-set web offset	Heat-set web offset
Typical papers	Wood-free coated, gloss, semi-matte, matte (WFC) High and medium weight coated (HWC, MWC)	Medium weight coated (MWC) Light weight coated (LWC Improved)	Light weight coated, gloss and semi-matte (LWC)	Machine finished coated (MFC) Light weight coated, semi-matte (LWC)
	PS5	PS6	PS7	PS8
Type of surface	Wood-free uncoated	Super calendered uncoated	Improved uncoated	Standard uncoated
Typical process	Sheet-fed offset Heat-set web offset	Heat-set web offset	Heat-set web offset	Heat-set web offset
Typical papers	Offset, wood-free uncoated (WFU)	Super calendered (SC-A, SC-B)	Uncoated mechanical improved (UMI) Improved newsprint (INP)	Standard newsprint (SNP)

1.2.3.4.1.2. TVI Curves

List with all print conditions and the corresponding TVI curve type.

Printing Condition (PC)	Print Substrate (PS)	Colorant Description (CD)	Screening Description	
			AM - Periodic	
			TVI Curve	Screen ruling - LPI
PC1	PS1	CD1	A	150 - 200
PC2	PS2	CD2	B	120 - 175
PC3	PS3	CD3	B	120 - 150
PC4	PS4	CD4	B	120 - 150
PC5	PS5	CD5	C	133 - 175
PC6	PS6	CD6	B	120 - 150
PC7	PS7	CD7	C	120 - 150
PC8	PS8	CD8	C	120 - 150

1.2.4. Spotcolor Setup



1 Measuring conditions

Opens the menu Measuring Conditions with menu entry
a) standard printing targetset
b) spot-color target sets
c) scoring
d) scan device setup.

2 Menu Spot Colors

Open the submenu Spot Colors

3 Shortcut to spot color

Use this shortcut to get directly to the spot color

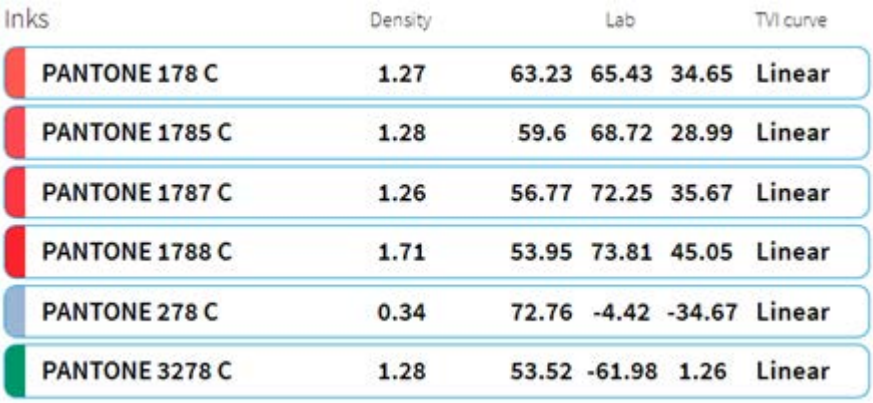
4 Available targetsets

Currently installed spot color targetset

5 Selected targetset

Current selected spot color targetset.
The shown color entries on the right refer to this target.

6 Color entries



Color entries from selected targetset. Click on the color for editing.
See 1.2.4.1. Spot Color View

7 Search color

Add a part of the spot color name to quickly find the color

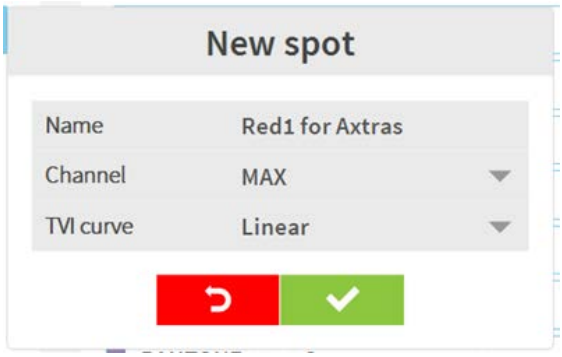
8 Import color library

Import a CxF color exchange file

9 Create new spot color

Creates a new spot color:

Set the spot name
Choose the density channel
Choose a TVI base curve



10 Delete targetset

Deletes the currently selected spot color targetset

11 Create new targetset

Creates a new spot color targetset

12 Export color library

Exports spot color data as CxF

13 Go to Measurement View

1.1.2. Density Relative View

1.2.4.1. Spot Color View

1 **Targetset name**

Pantone Coated

The spot color targetset where the color is assigned to

2 **Color name**

PANTONE 2945 C

Color name

3 **Density measurement channel**

Channel MAX

Usually the density filter channel for measuring a spot color with a spectrophotometer is set to MAX, meaning the maximum peak from its remission. Nevertheless, it is possible to change the filter to K, C, M or Y

4 **Lab target**

L 29.34 a -4.72 b -54.42

Lab target value

5 **Target density with tolerance**

Target density with tolerance

With this setup the density for a front side measurement is displayed as:

< 1.86	red
1.86 - 1.90	yellow
1.91 - 2.01	green
2.02 - 2.06	yellow
> 2.06	red

6 Front / Back target selector

Setup an individual density target for front and back side.

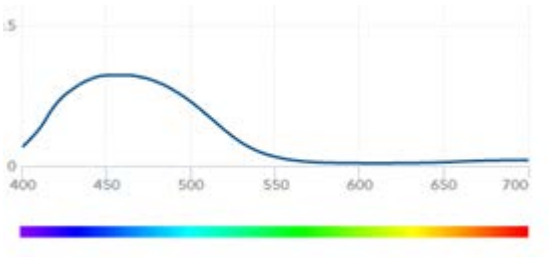
7 DeltaE tolerance

Color tolerance in DeltaE

With this setup the DeltaE for a front and back measurement is displayed as:

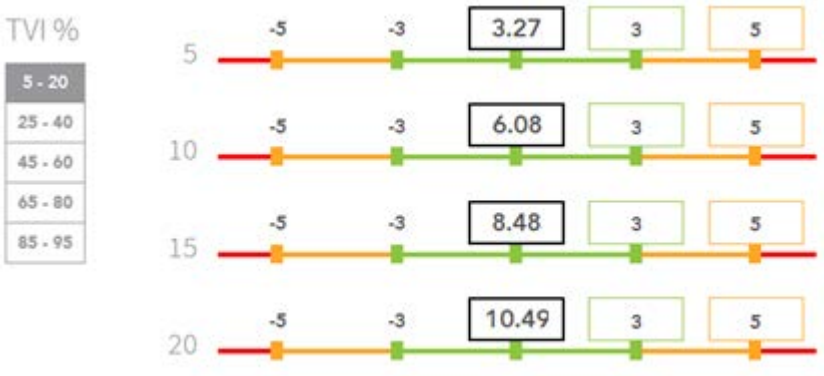
0 - 3	green
3.01 - 5	yellow
> 5	red

8 Spectral remission



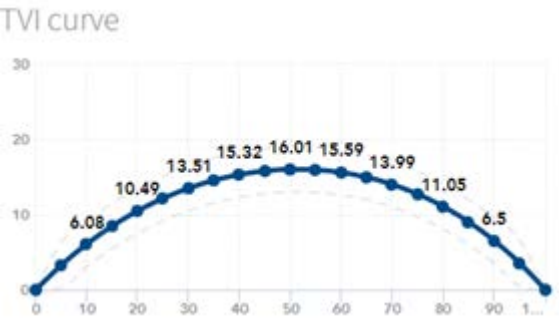
Spectral remission curve

9 TVI values with tolerance



TVI curve values and their tolerance

10 Visualized TVI curve



Visualized TVI curve with the TVI expected value for 5 to 95%.

11 TVI curve type

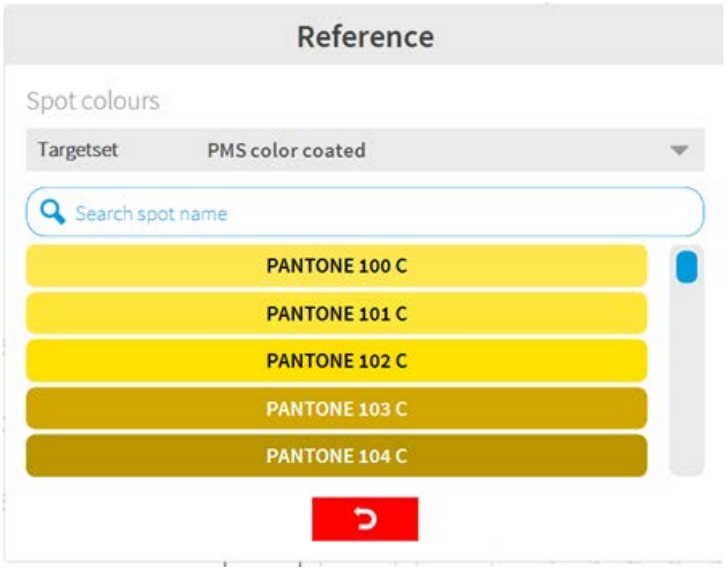
ISO 12647-2 uses different sets of predefined TVI curves named A to F.
A linear curve is when the dot gain is expected like
5%Tone TVI=5;
10%Tone TVI=10;
etc.

12 Delete color

Deletes the color

13 Links to an existing color

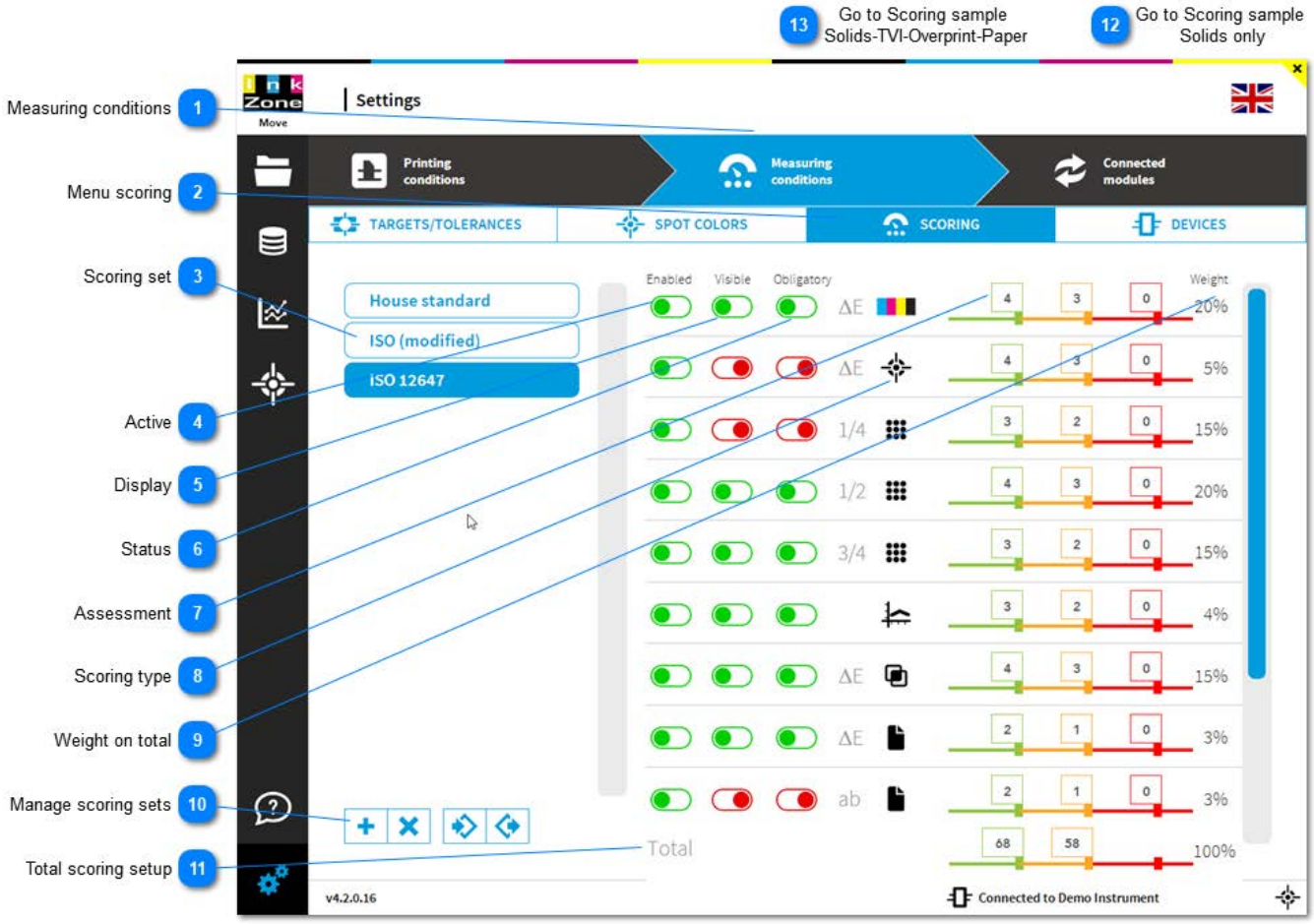
Create a link to an existing spot color.
Select the reference color in the dialog. Use the search to filter the color list.



14 Measure with instrument

Place the instrument on the sample and start the color reading with this button. Alternatively, use the instrument measurement button.

1.2.5. Scoring Setup



1 Measuring conditions

Opens the menu Measuring Conditions with menu entry
a) standard printing targetset
b) spot-color target sets
c) scoring
d) scan device setup

2 Menu scoring

Open the submenu Scoring

3 Scoring set

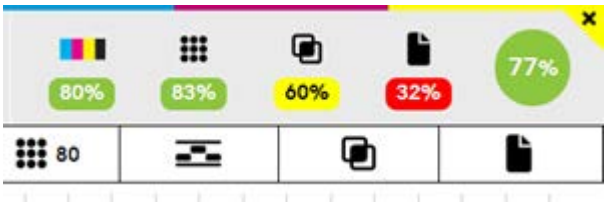
Currently available scoring sets.

4 Active

Enable / Disable the scoring for the criteria.

5 Display

Display the criteria on the measurement view in top right corner:



See also the dynamic scoring selection: 1.1.17. Select scoring set

6 Status

Choose if the criteria is obligatory or informative. Only items with status obligatory are used for the total score calculation.

7 Assessment

Setup the scoring value based on the tolerance area green, yellow and red from the targetset.
See the tolerance setup in the targetset here: 1.2.3.1. Edit Color

As an example:
In the targetset, the primary's tolerance is set:

Green	Yellow	Red
DeltaE < 4	DeltaE > 4 and < 5	DeltaE > 5

In this sample, the primary color scoring is set like:

Green	Yellow	Red
Score value = 4	Score value = 3	Score value = 0

Now, let's presume the sheet measurement is:
Average DeltaE's are K = 2.31, C = 3.54, M = 4.52, Y = 5.66
This creates a score as K = 4 points, C = 4 points, C = 3 points, Y = 0 points
Total score = 4 + 4 + 3 + 0 = 11 points (max score is 16 points)
Result in percentage = 11 / 16 * 100 = 68.75%

8 Scoring type

Scoring criteria such as primary solids, spot colours, TVI, see details here: 1.2.5.3. Scoring Criteria
Select the DeltaE method in the targetset setup, see here: 1.2.3.3. Edit Targetset

9 Weight on total

The criteria's weight on the total scoring

10 Manage scoring sets

Add, delete scoring sets. Reuse with import and export functionality.

11 Total scoring setup

Total value shows up in the measurement view in a colored circle on the top right corner.
Setup total score color here.
In this sample the total's color is set like:

Green	68% to 100%
Orange	58% to 68%
Red	0% to 58%

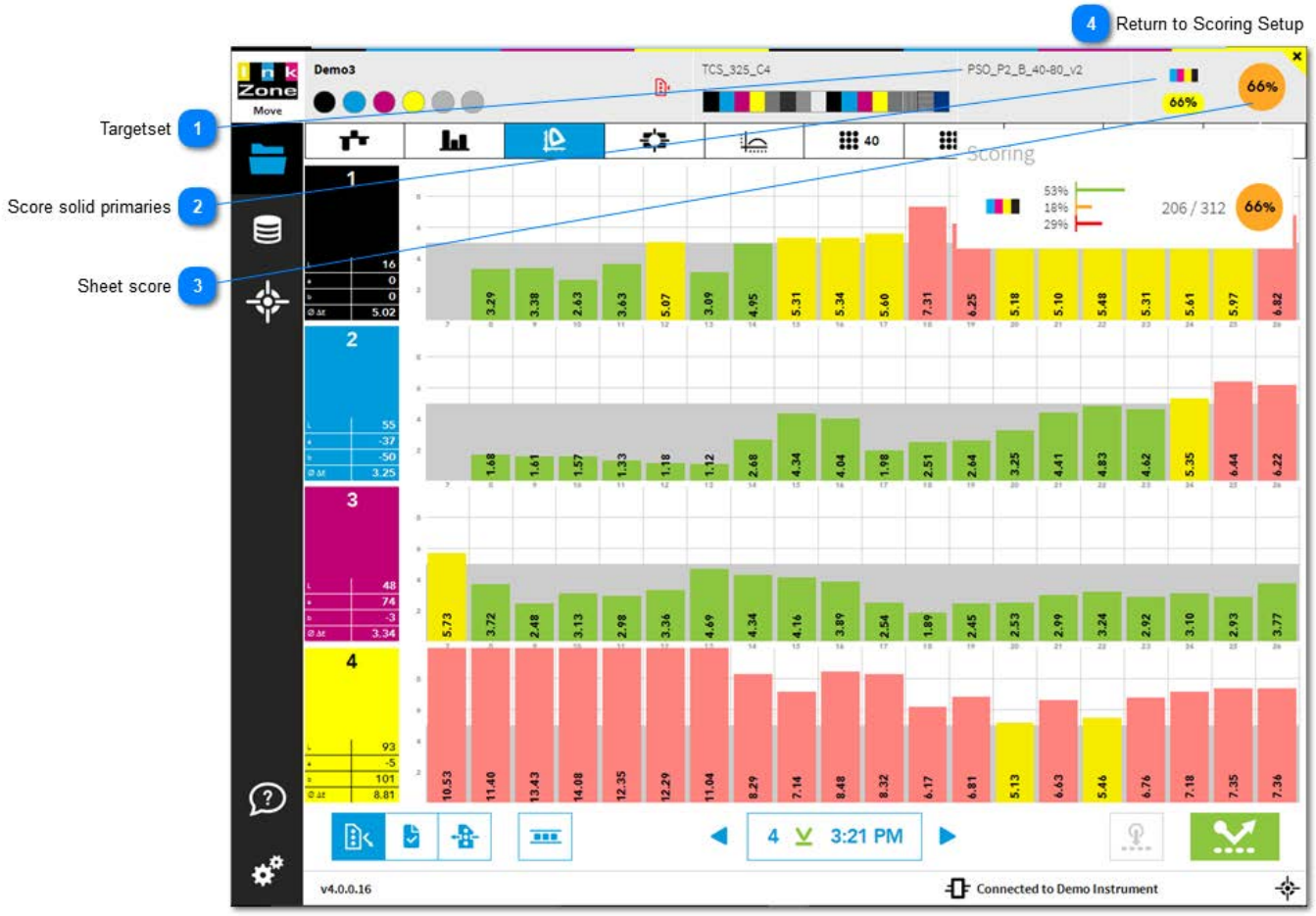
12 Go to Scoring sample Solids only

1.2.5.1. Scoring sample - Solids only

13 Go to Scoring sample Solids-TVI-Overprint-Paper

1.2.5.2. Scoring set - Solids-TVI-Overprint-Paper

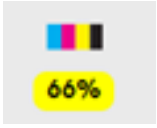
1.2.5.1. Scoring sample - Solids only



1 Targetset

Selected targetset. Each targetset has a scoring set. See here: [1.2.3.3. Edit Targetset]

2 Score solid primaries



Score for the solid primaries CMKY

3 Sheet score

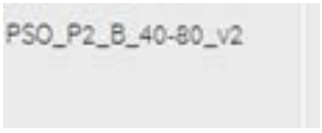
Total score. As only primaries are scored, the total score is equal to the solid primary score

4 Return to Scoring Setup

[1.2.5. Scoring Setup]

1.2.5.2. Scoring sample - Solids and TVI

1 Targetset



Selected targetset with a scoring set. See here: 1.2.3.3. Edit Targetset

2 Score Solids and TVI

Scoring for primaries and TVI.
Configure this view from the scoring set, enable the criteria with the "visible" setting.
See here 1.2.5. Scoring Setup

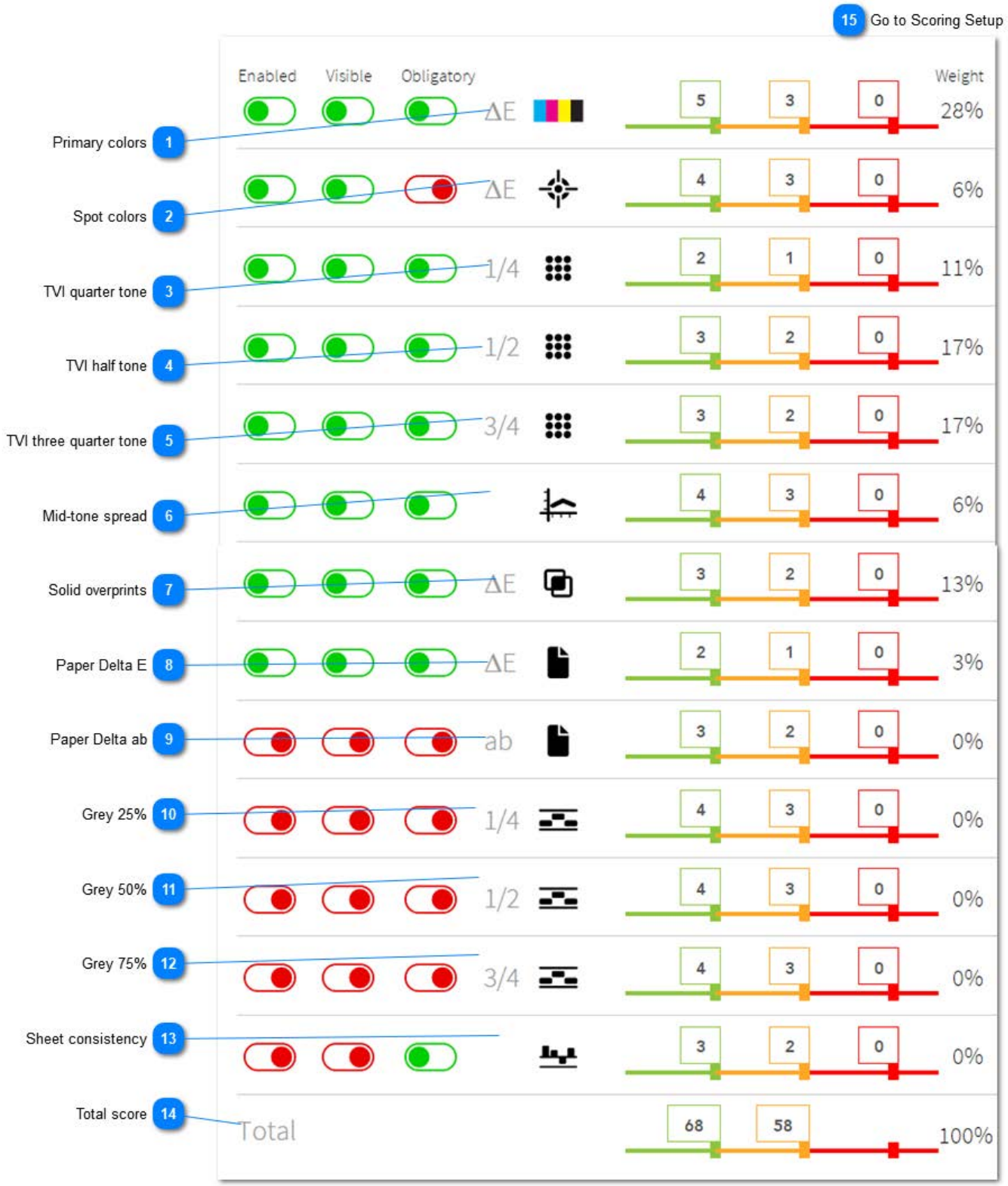
3 Sheet Score

Total sheet score.
For this sample the score is calculated from the primaries, TVI, overprints and paper patches..

4 **Return to Scoring setup**

1.2.5. Scoring Setup

1.2.5.3. Scoring Criteria



1 **Primary colors**

ΔE

Scoring on primary colors C M Y and K

2 **Spot colors**

Scoring spot colors

3 **TVI quarter tone**

Scoring tone value increase (TVI), quarter tone

4 **TVI half tone**

Scoring tone value increase (TVI), half tone

5 **TVI three quarter tone**

Scoring tone value increase (TVI), three quarter tone

6 **Mid-tone spread**

TVI mid-tone spread on C M Y

7 **Solid overprints**

Scoring on solid overprints: CM, CY and MY (red, green, blue)

8 **Paper Delta E**

Scoring on paper, Delta E

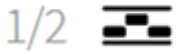
9 **Paper Delta ab**

Scoring on paper, Delta ab

10 **Grey 25%**

Grey value 25%

11 **Grey 50%**



Grey value 50%

12 **Grey 75%**

Grey value 50%

13 **Sheet consistency**

Sheet consistency, see here: 1.2.3.1.1. Tolerance for Mid-tone and Sheet Consistency

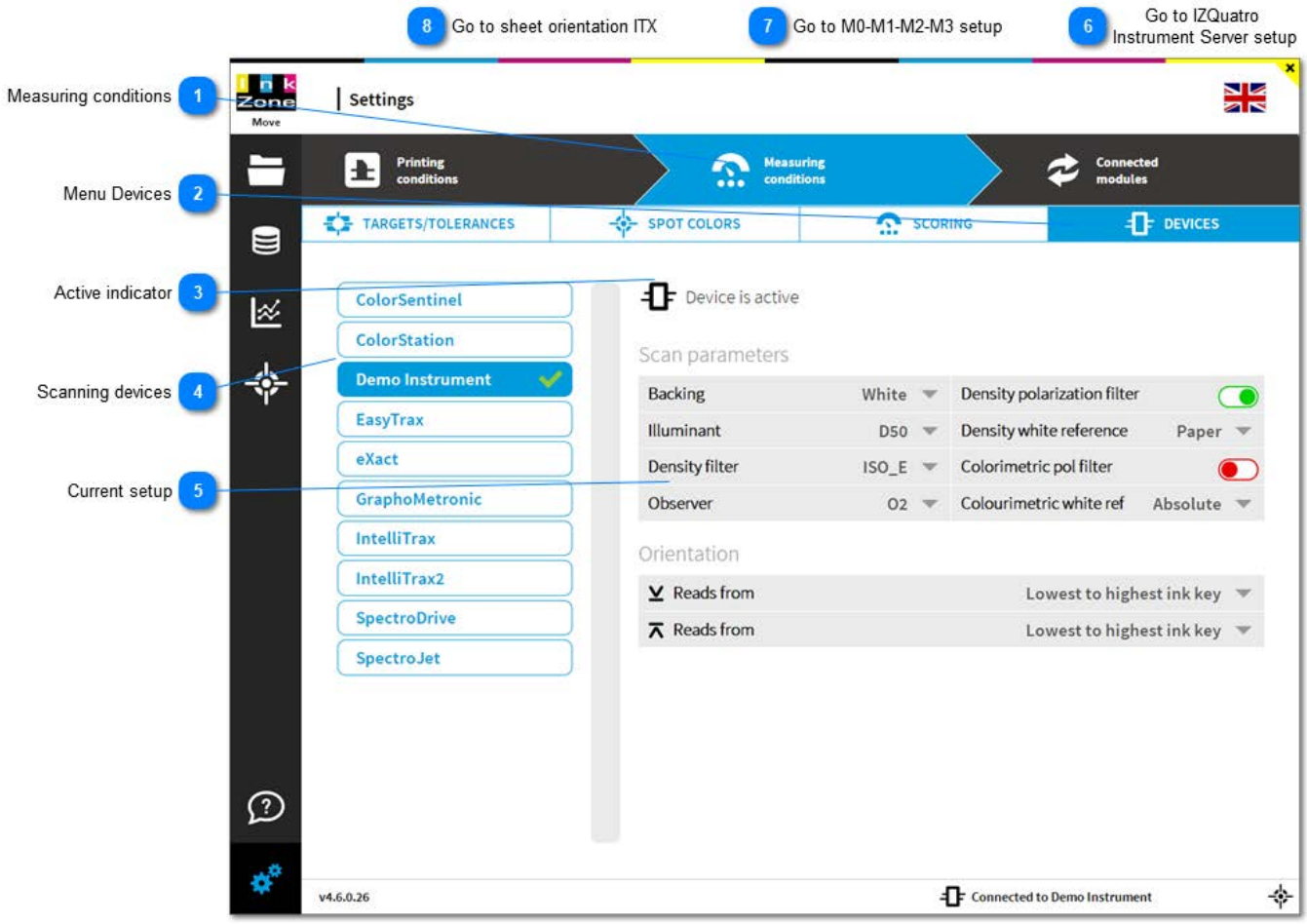
14 **Total score**

Score on total points

15 **Go to Scoring Setup**

1.2.5. Scoring Setup

1.2.6. Scanning Device Setup



1 Measuring conditions

Opens the menu Measuring Conditions with menu entry
a) standard printing targetset
b) spot-color target sets
c) scoring
d) scan device setup

2 Menu Devices

Menu Devices

3 Active indicator

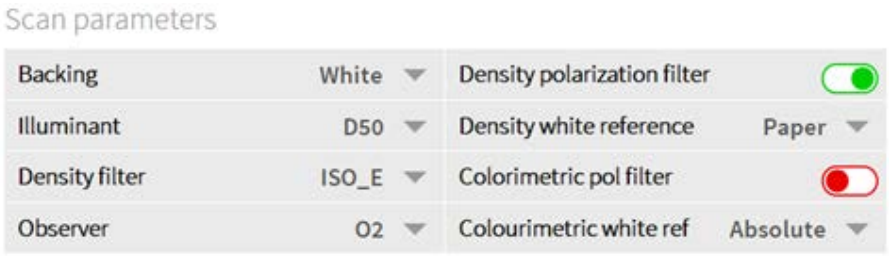
Indicates which instrument is active.
To change to another instrument, select first the instrument from the device list and then click on the **ACTIVATE**:

4 Scanning devices

Lists with all supported scanning devices.

For detailed on the setup see here:
1.2.6.1. ColorStation
1.2.6.2. Demo instrument
1.2.6.3 EasyTrax
1.2.6.4. GraphoMetronic
1.2.6.5. IntelliTrax
1.2.6.6. IntellTrax2
1.2.6.7. SpectroDrive
1.2.6.8. SpectroJet
1.2.6.13. eXact
1.2.6.14. SpectroDens

5 Current setup



The instrument current setup. The view may vary for other instruments.

6 Go to IZQuatro Instrument Server setup

1.2.6.2. Instrument Server IZQuatro

7 Go to M0-M1-M2-M3 setup

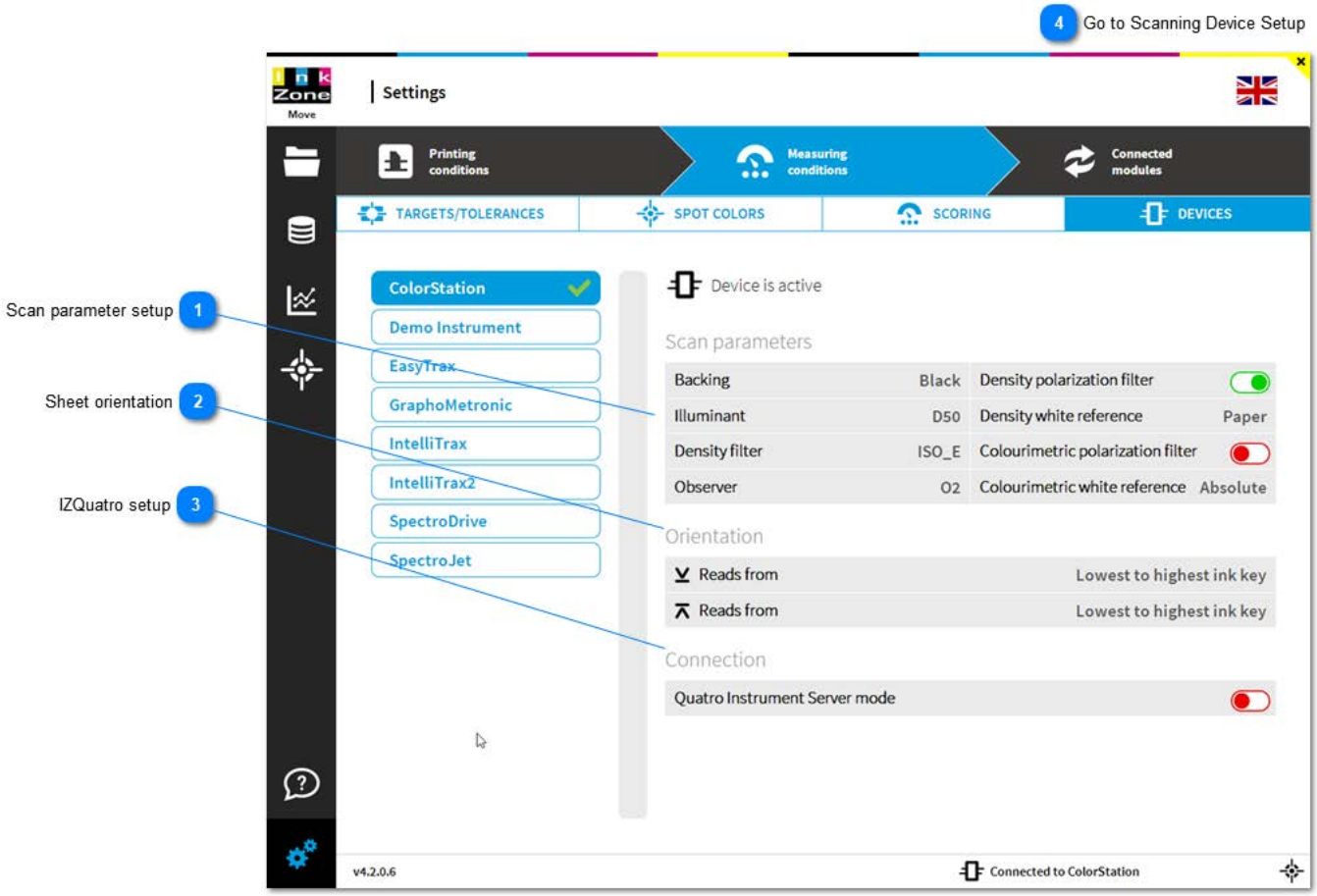
1.2.6.3. M0 - M1 - M2 - M3 setup

8 Go to sheet orientation ITX

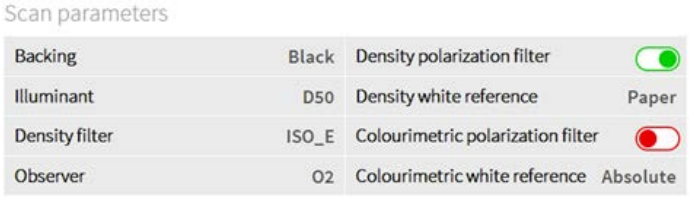
1.2.6.1. Sheet orientation IntelliTrax

1.2.6.1. ColorStation

The ColorStation is the combination of a high quality large format scanner and the DI-ColorStation software. ColorStation difference to all other scanning devices is by scanning the entire sheet without the necessity of a colorbar. Such a setup reduces paper waste drastically.



1 Scan parameter setup



See details here: 1.2.6.9. Scan Parameter Setup

2 Sheet orientation

See details here: 1.2.6.10. Sheet Orientation

3 IZQuatro setup

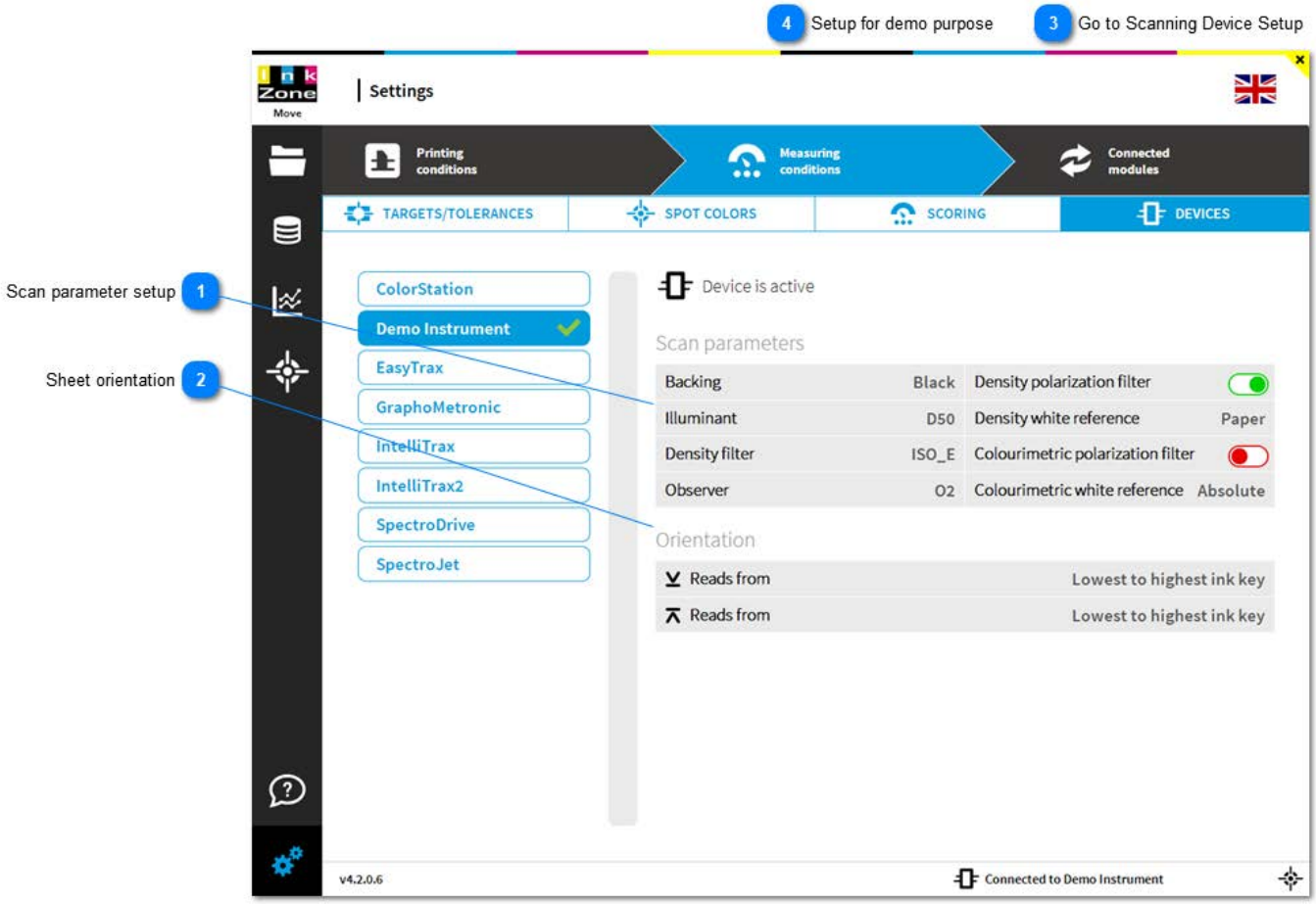
See details here: 1.2.6.12. Instrument Server IZQuatro

4 **Go to Scanning Device Setup**

1.2.6. Scanning Device Setup

1.2.6.2. Demo Instrument

The demo instrument acts like a virtual instrument. It allows to virtually scan sheets without having a physical scanning instrument attached.



1 Scan parameter setup

Scan parameters

Backing	Black	Density polarization filter	
Illuminant	D50	Density white reference	Paper
Density filter	ISO_E	Colourimetric polarization filter	
Observer	O2	Colourimetric white reference	Absolute

See details here: 1.2.6.9. Scan Parameter Setup

2 Sheet orientation

Orientation

Reads from	Lowest to highest ink key
Reads from	Lowest to highest ink key

See details here: 1.2.6.10. Sheet Orientation

3 Go to Scanning Device Setup

1.2.6. Scanning Device Setup

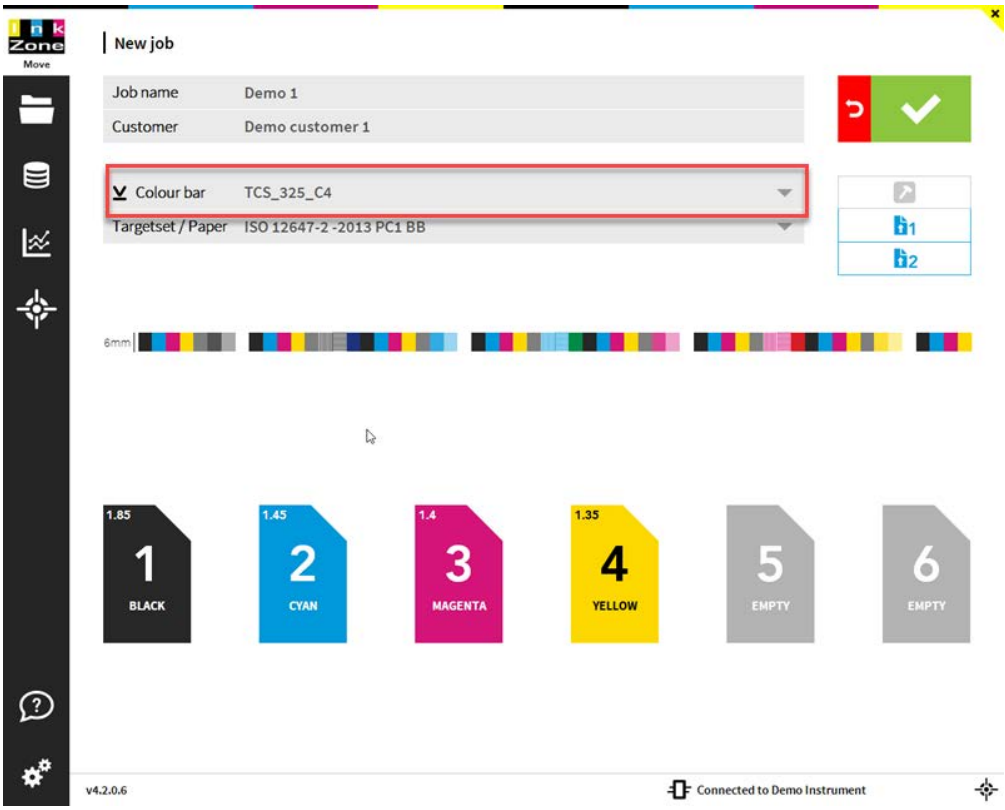
4 Setup for demo purpose

Look up the how-to for using the demo instrument.
See here 1.2.6.2.1. Setup for Demo Purposes

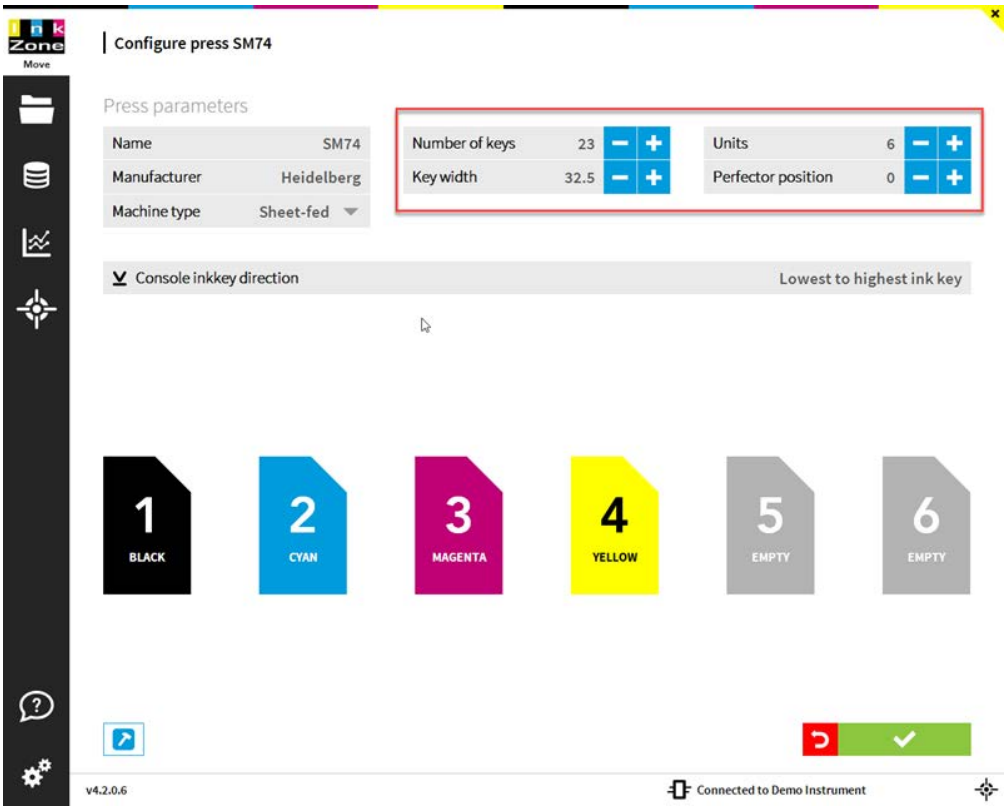
1.2.6.2.1. Setup for Demo Purposes

The Demo Instrument has a set of prepared scan measurement data. The best results are achieved when you following this three steps:

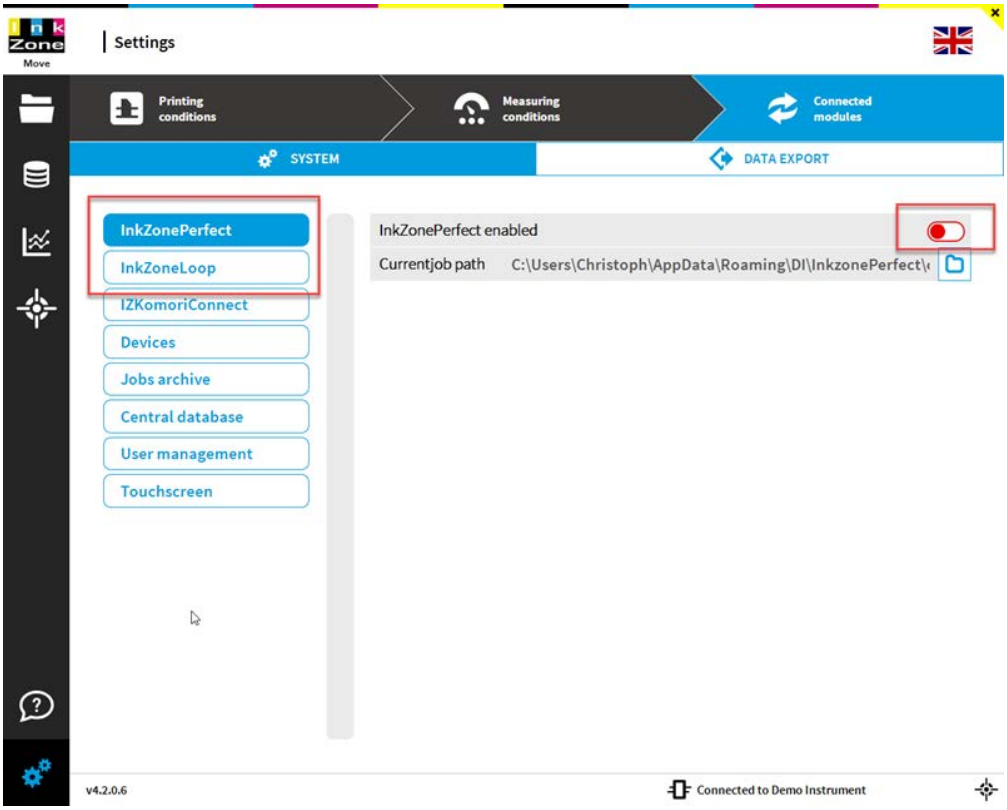
Step 1: Use TCS_325_C4 as the colorbar:



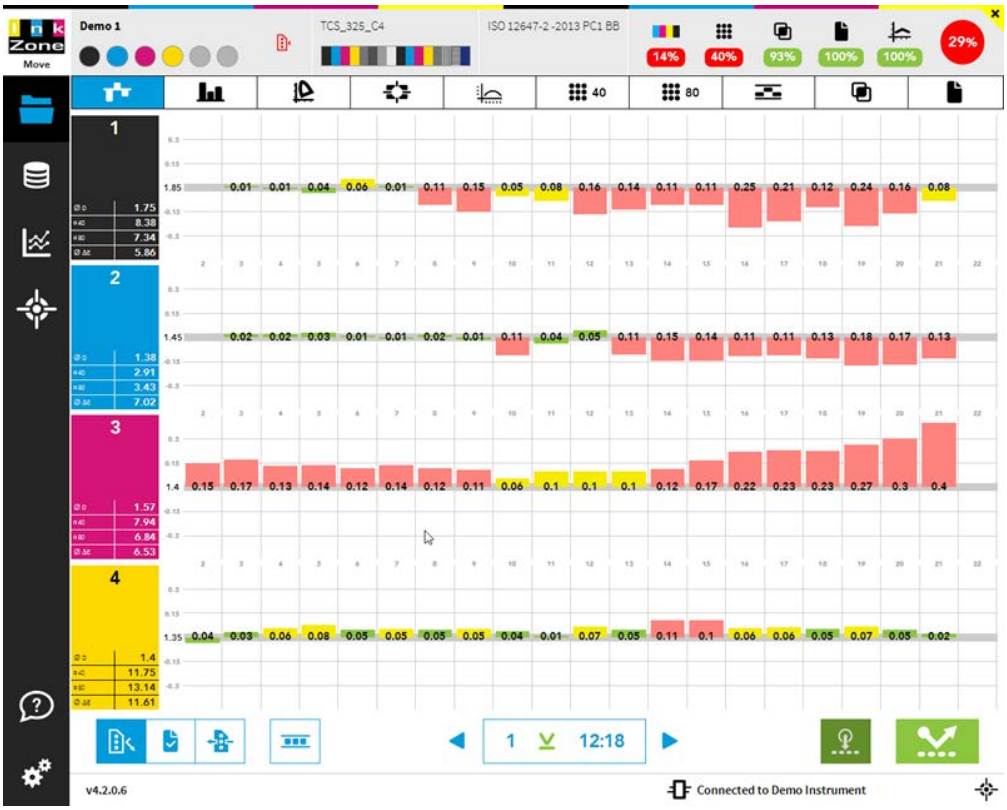
Step 2: Setup the press parameter to 23 keys, key width 32.5mm, 6 units with Perfector off.



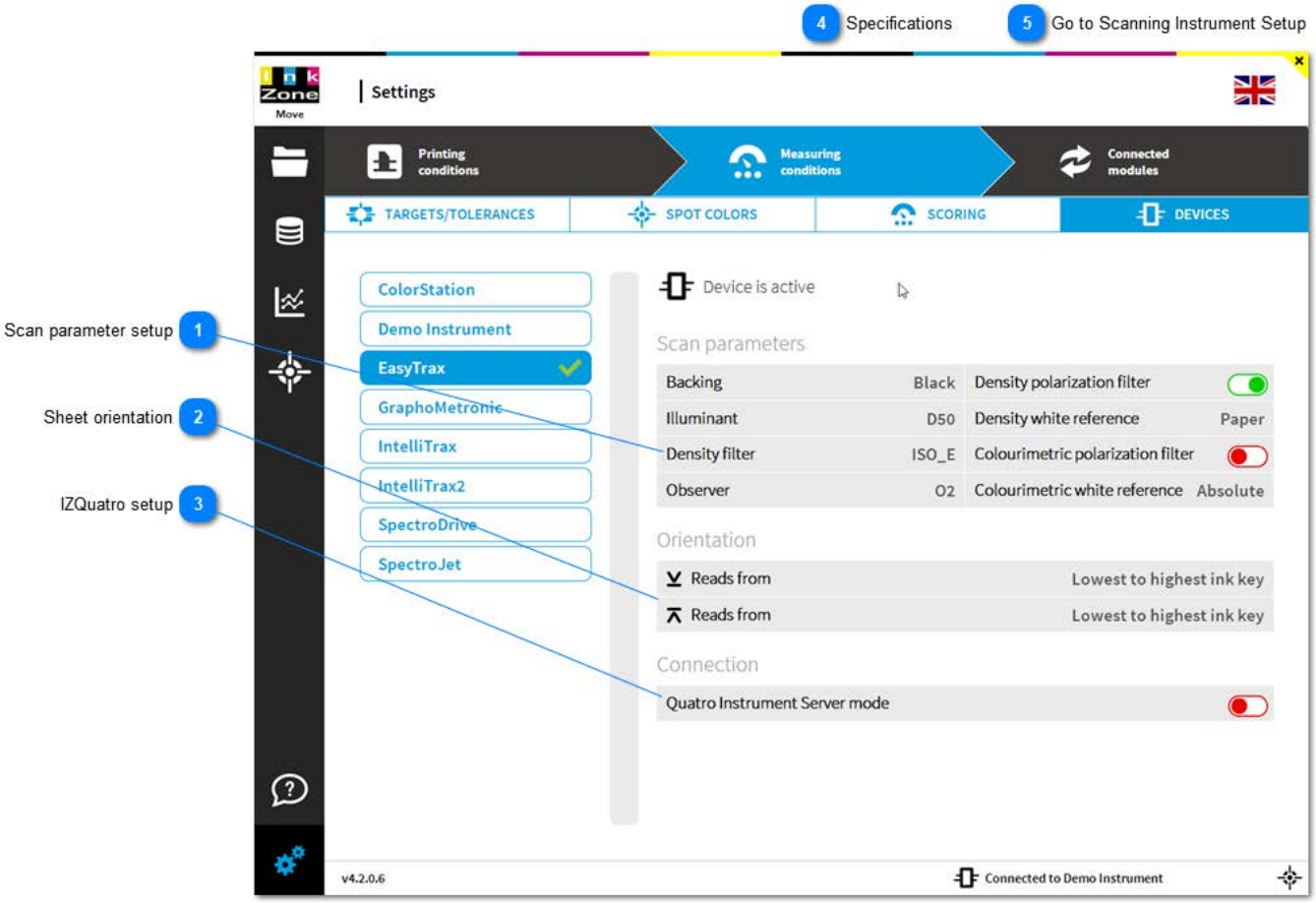
Step 3: Enable InkZonePerfect / InkZoneLoop when the programs are installed otherwise turn them both off:



Step 4: Measurement view after first scan


Demo 1
TCS_325_C4
ISO 12647-2 -2013 PC1 BB
14%
40%
93%
100%
100%
29%
1
2
3
4
12:18
v4.2.0.6
Connected to Demo Instrument

1.2.6.3. EasyTrax



1 Scan parameter setup

Scan parameters

Backing	Black	Density polarization filter	
Illuminant	D50	Density white reference	Paper
Density filter	ISO_E	Colourimetric polarization filter	
Observer	O2	Colourimetric white reference	Absolute

See details here: 1.2.6.9. Scan Parameter Setup

2 Sheet orientation

Orientation

Reads from	Lowest to highest ink key
Reads from	Lowest to highest ink key

See details here: 1.2.6.10. Sheet Orientation

3 IZQuatro setup

Connection

Quatro Instrument Server mode

See details here: 1.2.6.12. Instrument Server IZQuatro

4 Specifications

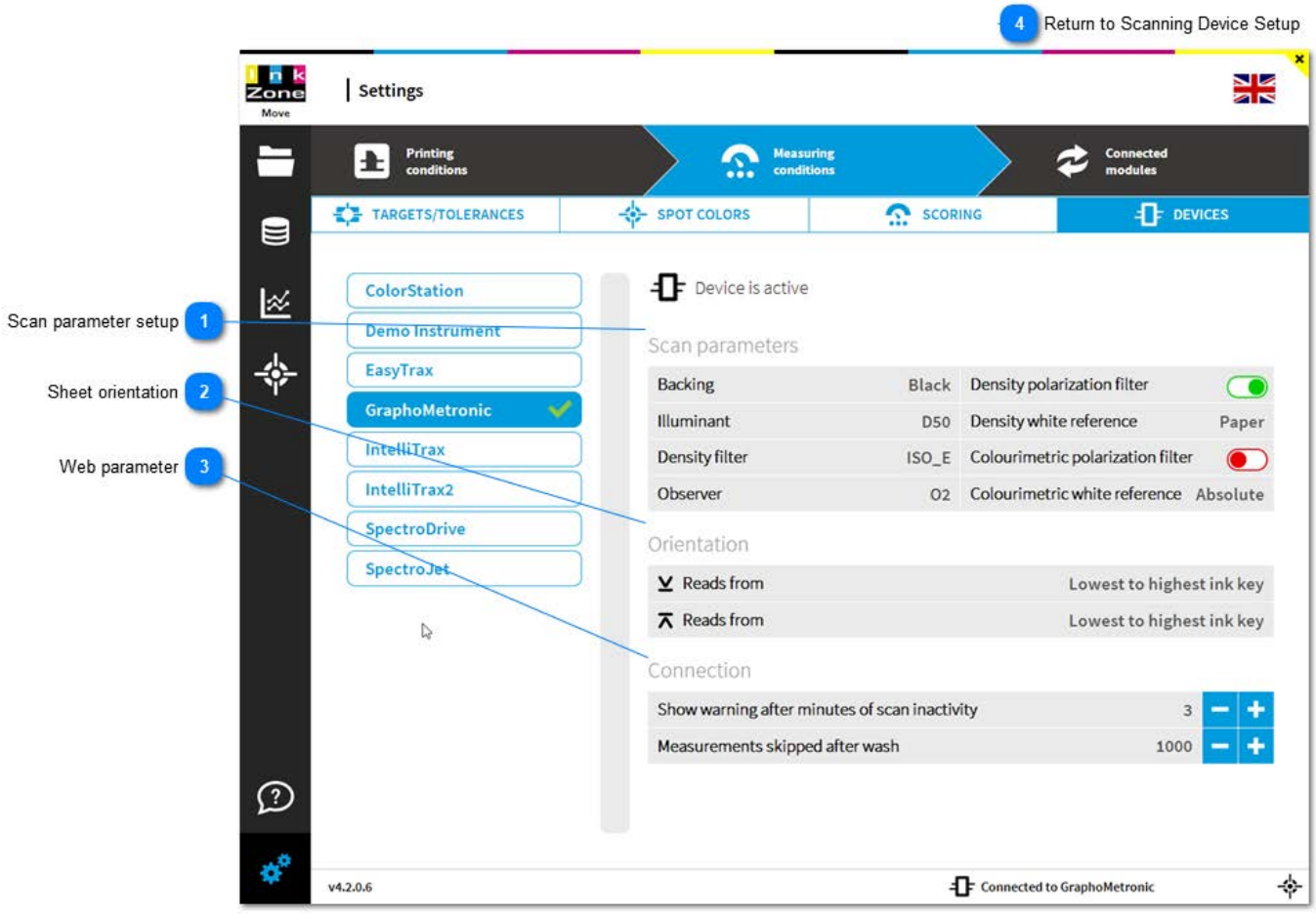
Producer	X-Rite
Min. patch width	3.8mm
Min. patch height	4.0mm
Size	29" and 40"
Connected by	Ethernet
Comment	no M1 reading, legacy product

5 Go to Scanning Instrument Setup

1.2.6. Scanning Device Setup

1.2.6.4. GraphoMetronic

Inline measurement system for web presses may by GraphoMetronic.



1 Scan parameter setup

Scan parameters

Backing	Black	Density polarization filter	
Illuminant	D50	Density white reference	Paper
Density filter	ISO_E	Colourimetric polarization filter	
Observer	O2	Colourimetric white reference	Absolute

See details here: 1.2.6.9. Scan Parameter Setup

2 Sheet orientation

Orientation

Reads from	Lowest to highest ink key
Reads from	Lowest to highest ink key

See detail here: 1.2.6.10. Sheet Orientation

3 Web parameter

Connection

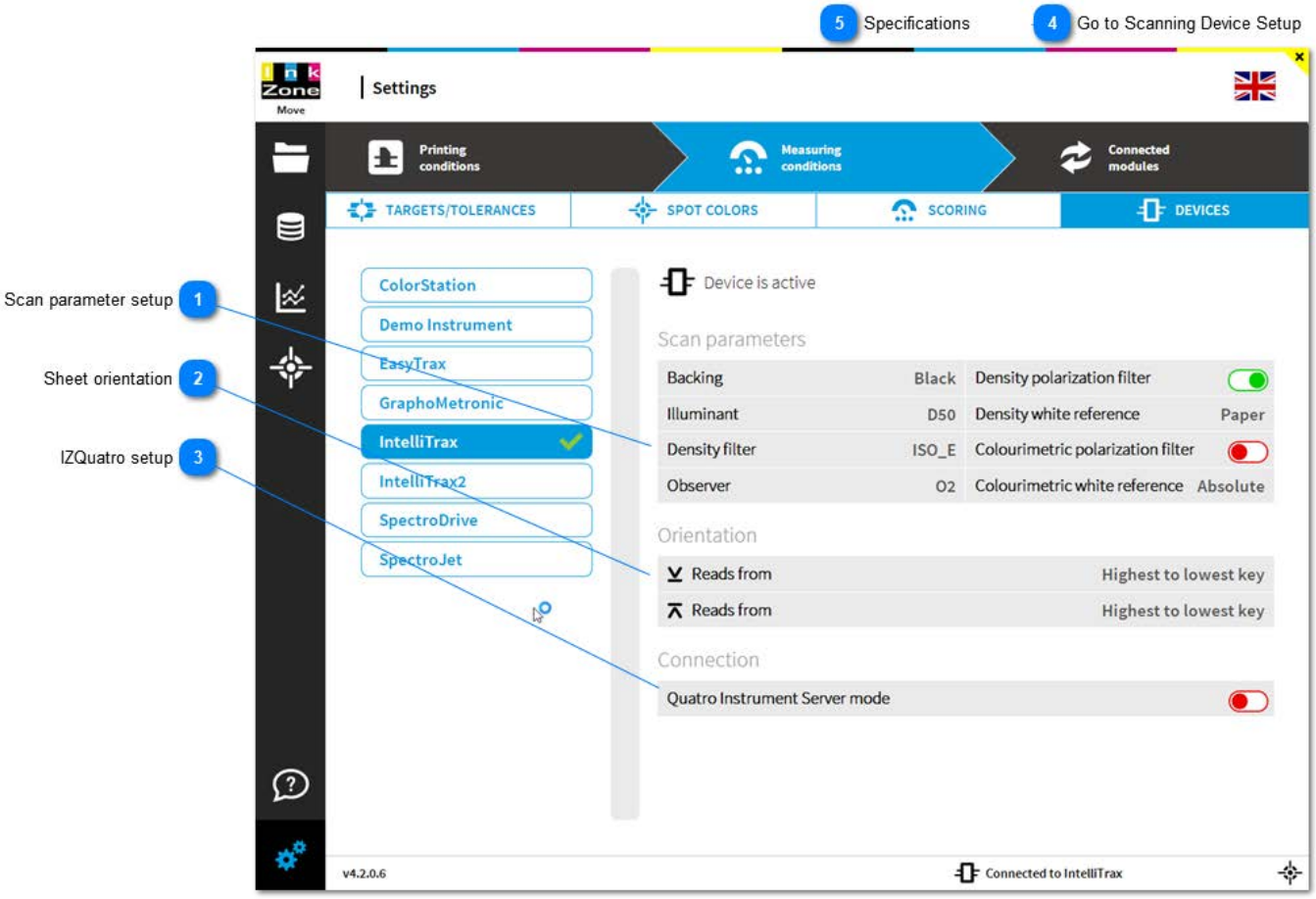
Show warning after minutes of scan inactivity	3	− +
Measurements skipped after wash	1000	− +

Setting top	Warning when no new scan data is received after "x" minutes. This helps to identify an instrument error or a network connection problem to the GM processing unit.
Setting below	ignores x sheets for color-control after blanket wash

4 **Return to Scanning Device Setup**

1.2.6. Scanning Device Setup

1.2.6.5. IntelliTrax



1 Scan parameter setup

Scan parameters

Backing	Black	Density polarization filter	
Illuminant	D50	Density white reference	Paper
Density filter	ISO_E	Colourimetric polarization filter	
Observer	O2	Colourimetric white reference	Absolute

See details here: 1.2.6.9. Scan Parameter Setup

2 Sheet orientation

Orientation

Reads from	Highest to lowest key
Reads from	Highest to lowest key

See details here: 1.2.6.10.1. Sheet Orientation IntelliTrax

3 IZQuatro setup

Connection

Quatro Instrument Server mode

See details here: 1.2.6.12. Instrument Server IZQuatro

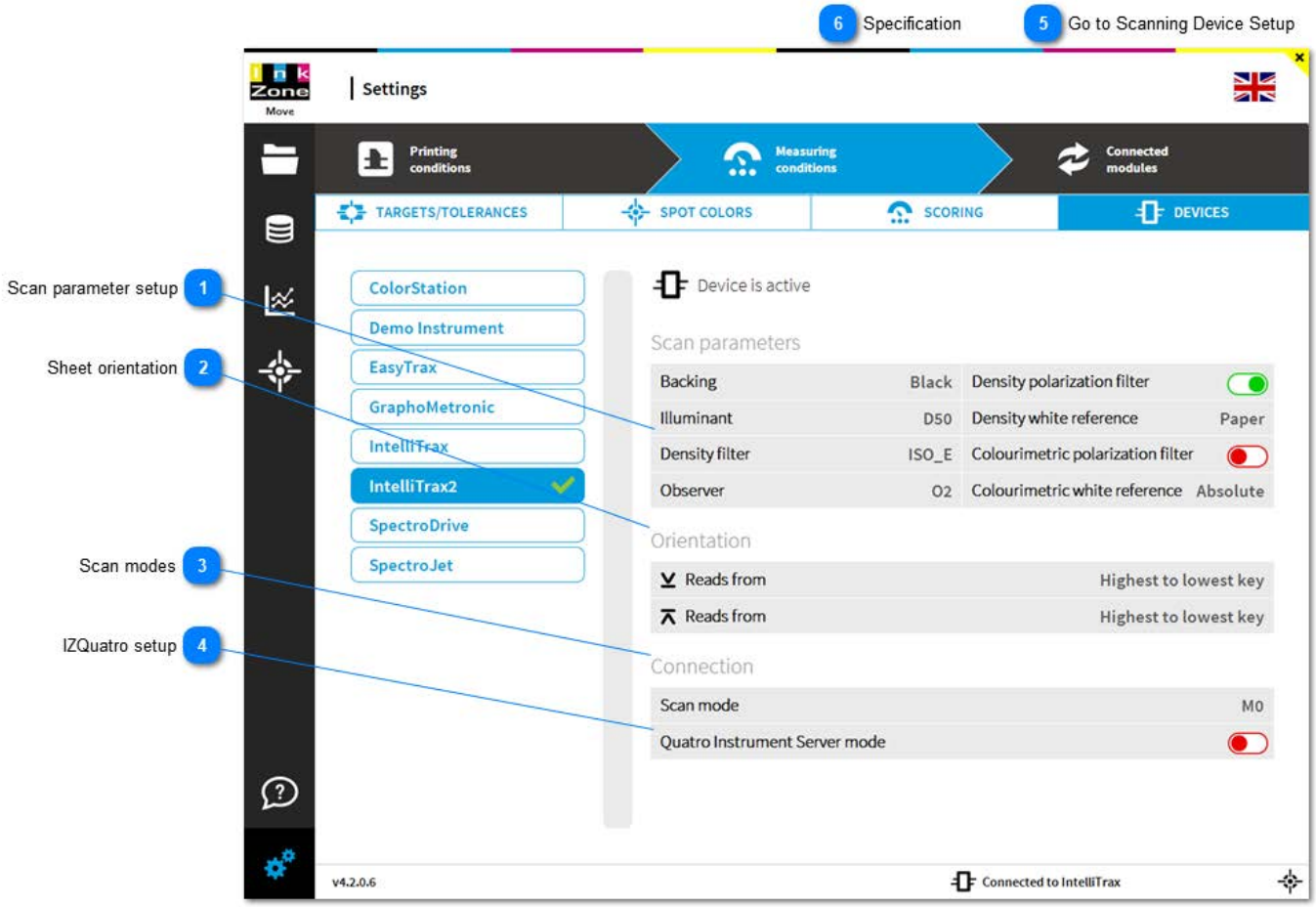
4 Go to Scanning Device Setup

1.2.6. Scanning Device Setup

5 Specifications

Producer	X-Rite
Min. patch size	standard spot size 3.2mm small spot (option) 2.0mm polarization (option) 3.5mm
Size	29" to 65"
Connected by	Ethernet
Comment	no M1 reading, legacy product

1.2.6.6. IntelliTrax2



1 Scan parameter setup

Scan parameters

Backing	Black	Density polarization filter	
Illuminant	D50	Density white reference	Paper
Density filter	ISO_E	Colourimetric polarization filter	
Observer	O2	Colourimetric white reference	Absolute

See details here: 1.2.6.9. Scan Parameter Setup

2 Sheet orientation

Orientation

Reads from	Highest to lowest key
Reads from	Highest to lowest key

See details here: 1.2.6.10.1. Sheet Orientation IntelliTrax

3 Scan modes

Scan mode	M0

See here the measurement conditions: 1.2.6.11. Measurement Conditions M0 - M1 - M2 - M3

4 IZQuatro setup

Quatro Instrument Server mode

See details here: 1.2.6.12. Instrument Server IZQuatro

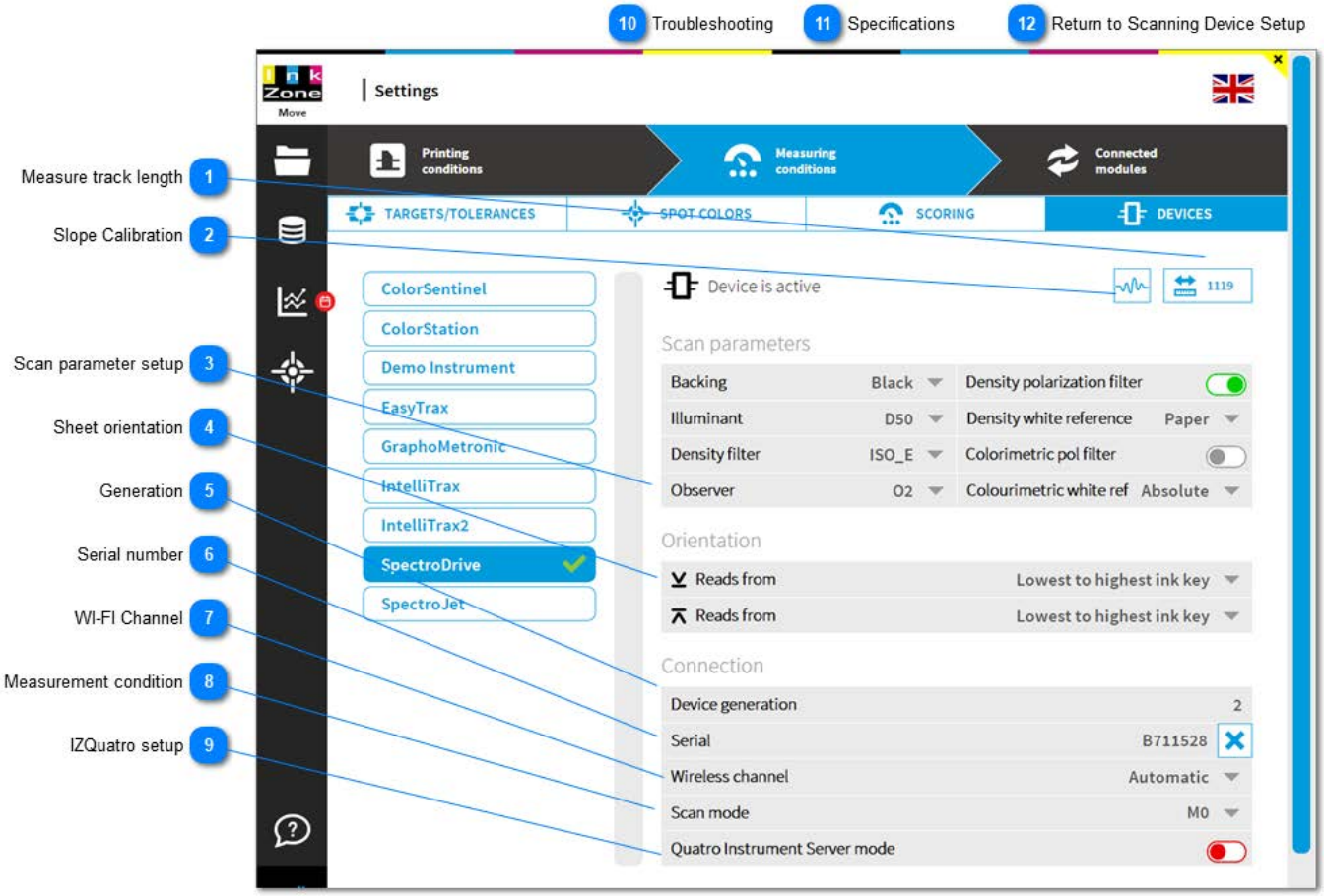
5 Go to Scanning Device Setup

1.2.6. Scanning Device Setup

6 Specification

Producer	X-Rite
Min. patch size	standard spot size 3.0mm small spot (option) 2.0mm polarization (option) 3.0mm
Size	29" to 65"
Connected by	Ethernet
Measurement Conditions	M0, M1, M3
Comment	supports M1 reading replaces IntelliTrax1

1.2.6.7. SpectroDrive



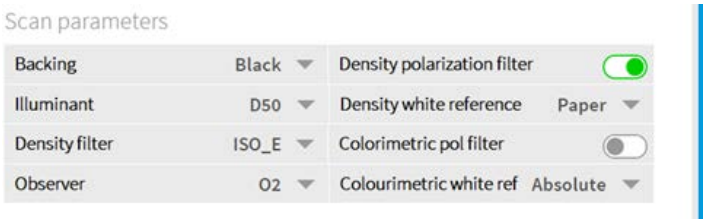
1 Measure track length

Starts measuring the rail length and stores it afterwards to the instrument.

2 Slope Calibration

Instrument calibration to be used with a color reference chart or to adjust density values to a 3rd party instrument.
See here: 1.2.6.7.1. Slope Calibration

3 Scan parameter setup



See details here: 1.2.6.9. Scan Parameter Setup

4 Sheet orientation

See details here: 1.2.6.10. Sheet Orientation

5 Generation

Generation 2 is for the latest one called SpectroDrive.NG, includes M1 reading
Generation 1 is for the predecessor with M0 only reading

6 Serial number

Serial number of the currently connected SpectroDrive.
Use the unlock button "x" to disconnect InkZoneMove from the instrument.

7 WI-FI Channel

Change here from the automatic channel selection to a fixed channel.
See details in the troubleshooting section: 1.2.6.7. SpectroDrive

8 Measurement condition

See here the instrument measurement conditions: 1.2.6.11. Measurement Conditions M0 - M1 - M2 - M3

9 IZQuatro setup

See details here: 1.2.6.12. Instrument Server IZQuatro

10 Troubleshooting

If you experience continuously connection problem to the device than try using a fixed WLAN channel.

Do like:

1. Download a WLAN channel scanner app to your mobile

2. Find the channel with the lowest traffic

3. Change in the configuration "Wireless channel" from Automatic to a fixed channel. Channel 2 to 11 are valid.

4. Quit InkZoneMove and unplug and replug the Techkon USB WLAN box. Restart InkZoneMove. Finish

11 Specifications

Producer	Techkon
Min. patch size	3.0mm
Size	20" to 80"

Connected by	WLAN module
Measurement Conditions	M0, M1, M2, M3
Comment	supports M1 with SpectroDriveNG

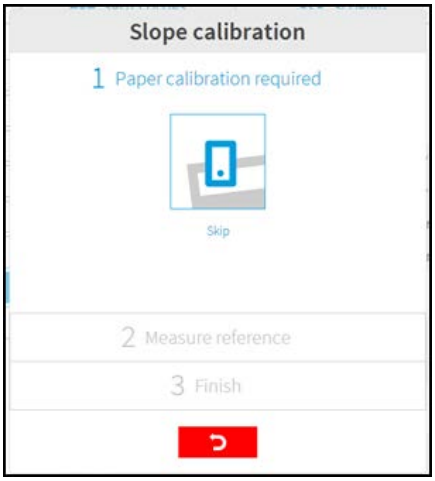
12 **Return to Scanning Device Setup**

1.2.6.9. Scan Parameter Setup

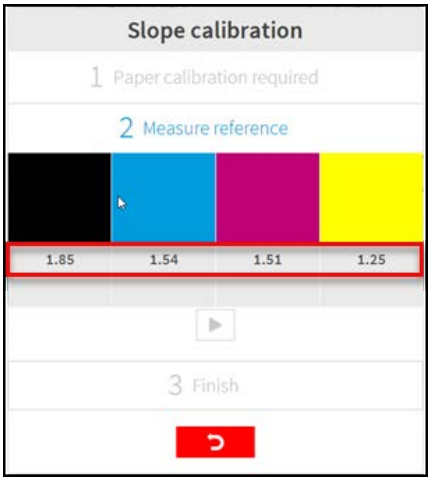
1.2.6.7.1. Slope Calibration

Start the slope calibration and follow the step by step procedure:

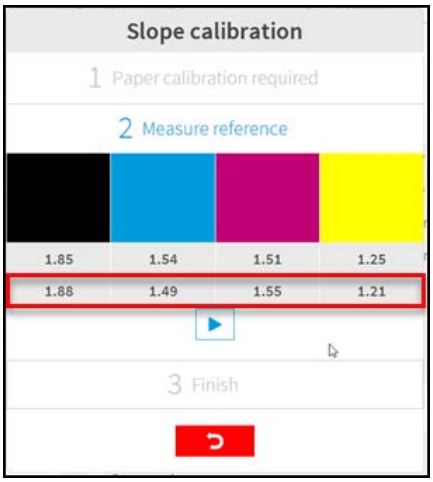
1. Measure the paper white of the reference chart. If this has been just before then skip it.



2. Type in the reference density data, the values the instrument should read, for black, cyan, magenta and yellow. The values are taken from the reference chart or from the readings of a 3rd party instrument.



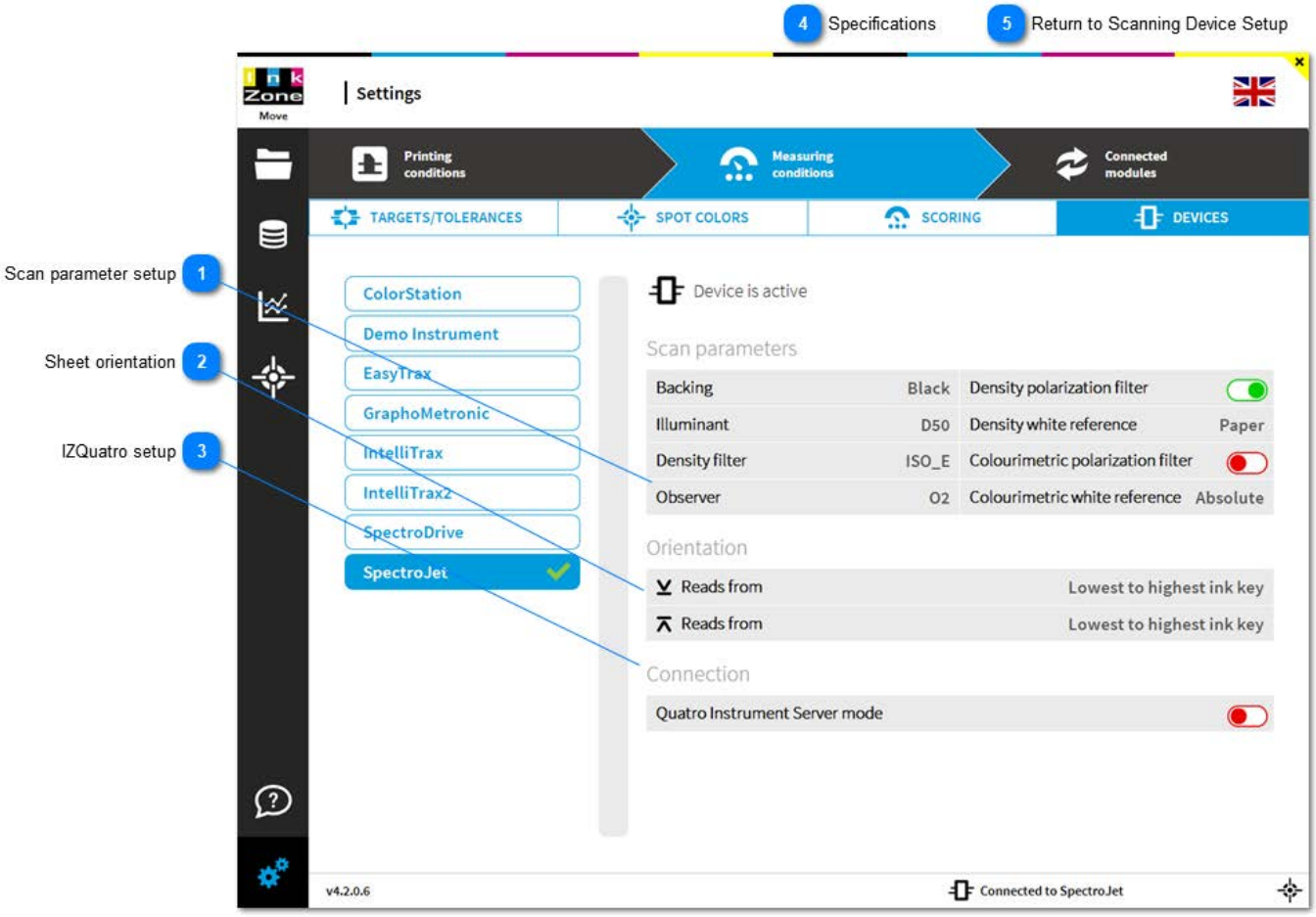
3. Measure the reference for black, cyan, magenta and yellow and press continue.



4. Review the settings and submit them with the green button.

Return to SpectroDrive instrument setup 1.2.6.7. SpectroDrive

1.2.6.8. SpectroJet



1 Scan parameter setup

Scan parameters

Backing	Black	Density polarization filter	
Illuminant	D50	Density white reference	Paper
Density filter	ISO_E	Colourimetric polarization filter	
Observer	O2	Colourimetric white reference	Absolute

See details here: 1.2.6.9. Scan Parameter Setup

2 Sheet orientation

Orientation

Reads from	Lowest to highest ink key
Reads from	Lowest to highest ink key

See details here: 1.2.6.10. Sheet Orientation

3 IZQuatro setup

Connection

Quatro Instrument Server mode

See details here: 1.2.6.12. Instrument Server IZQuatro

4 Specifications

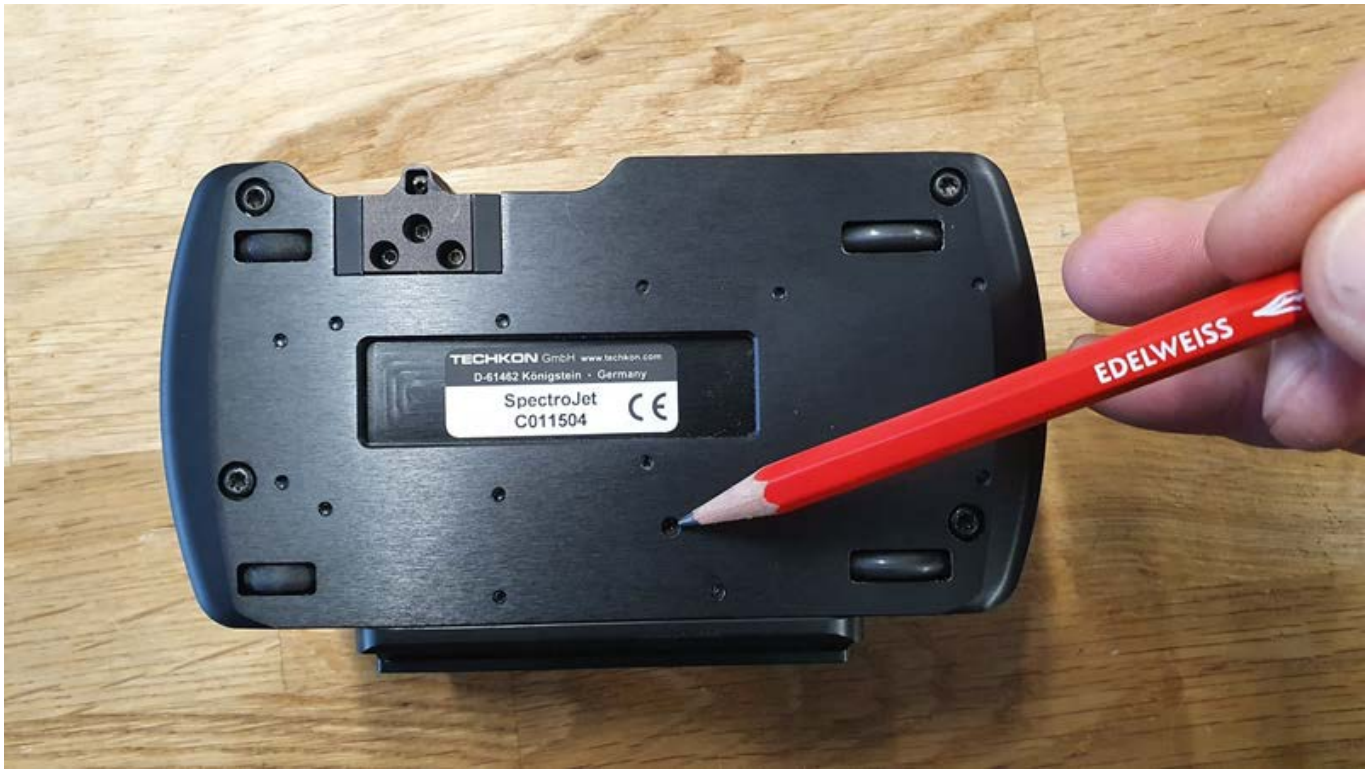
Producer	Techkon
Min. patch size	3.0mm
Scan length max	2000 mm
Connected by	serial cable
Measurement Conditions	M0, M1, M2, M3
Comment	supports M1 reading with SpectroJetNG

5 Return to Scanning Device Setup

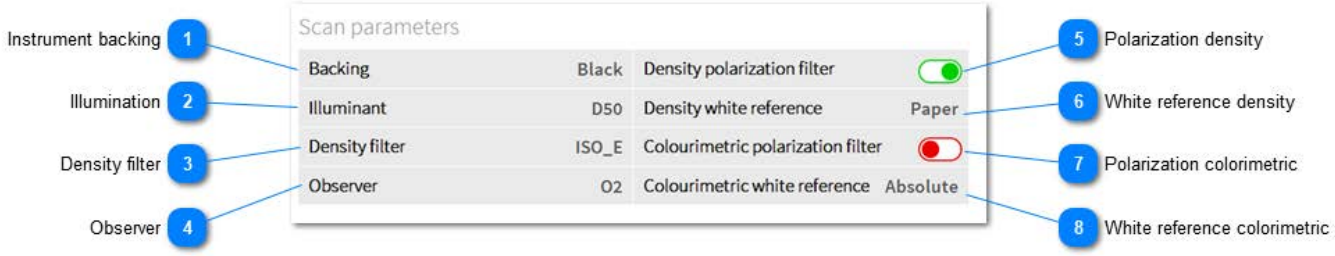
1.2.6. Scanning Device Setup

1.2.6.8.1. Encoder wheel

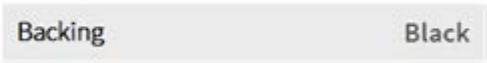
Turn the device up side down. The two larger wheels on the right are connected to the movement encoder of the SpectroJet.
Should those two wheels not turn smoothly adjust it with the screw shown here. Use a Torx 1.5 screwdriver for the adjustment.



1.2.6.9. Scan Parameter Setup



1 Instrument backing



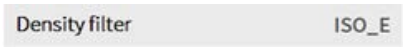
Set instrument backing to black or white (substrate backing).

Note: the targetsets are linked to the backing parameter white or black.
A white backing selection in the instrument setup will force the software to show only white backing targetsets whereas a black selection shows only black targetsets.

2 Illumination

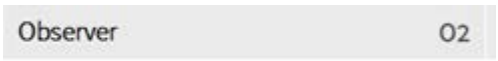
Select the illumination.

3 Density filter



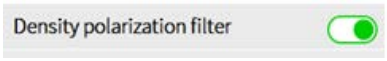
Select the density filter.

4 Observer



Select the observer.

5 Polarization density



Activate/deactivate the polarization filter for density reading

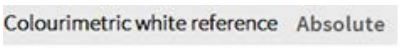
6 White reference density

Select the white reference for density measurement.

7 Polarization colorimetric

Activate/deactivate the polarization filter for colorimetric reading

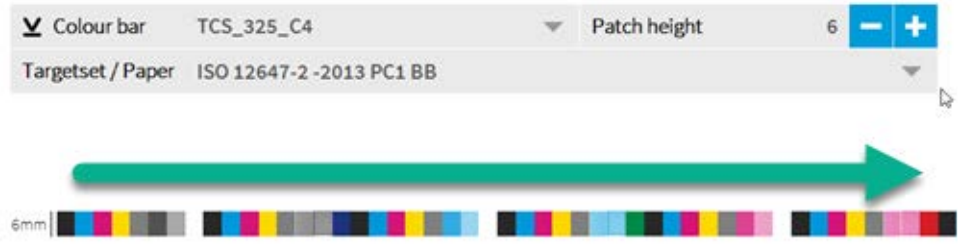
8 White reference colorimetric



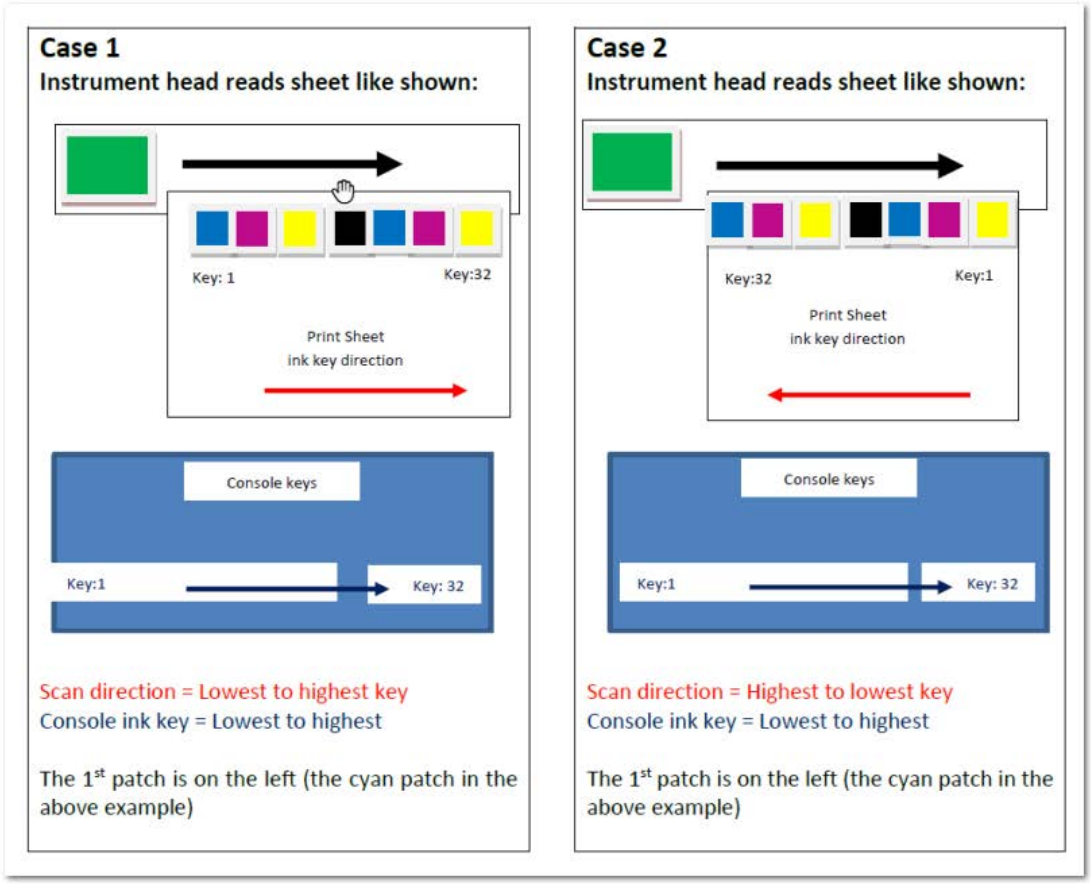
Select the white reference for colorimetric measurement.

1.2.6.10. Sheet Orientation

Colorbar patch direction in job setup window.



Instrument setup at press console:

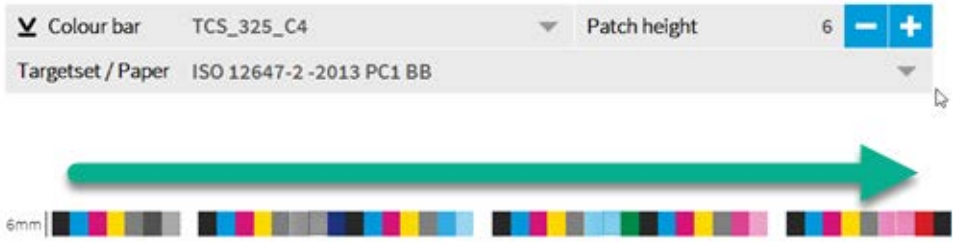


1 Return to Scan Instrument Setup

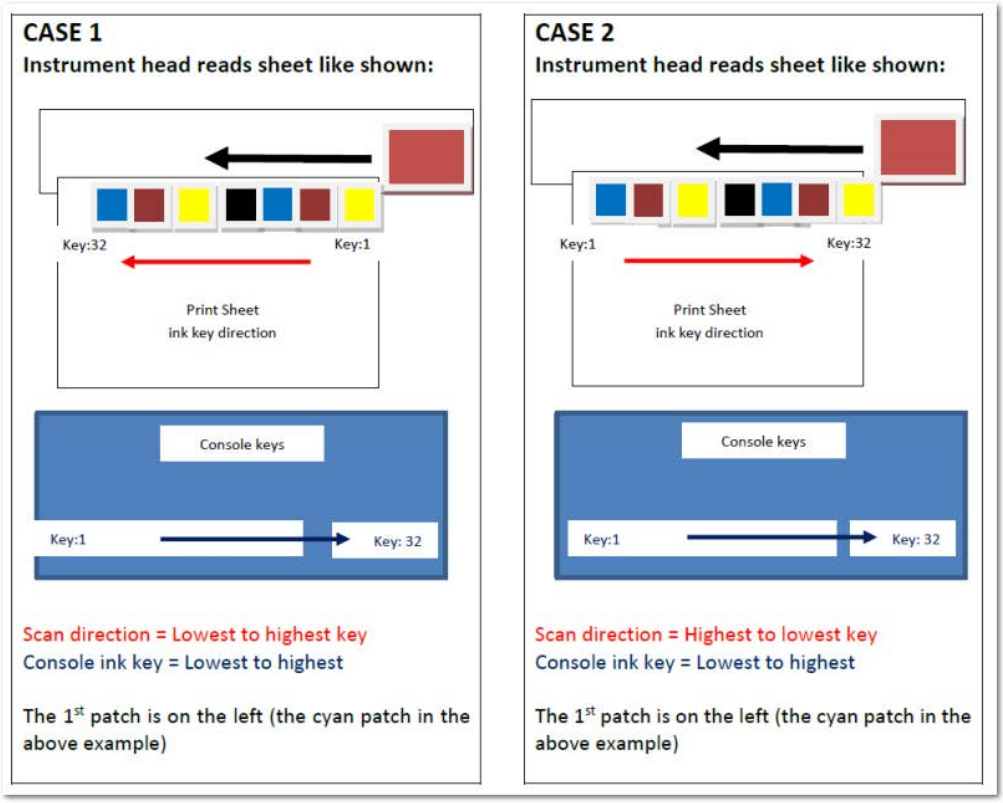
1.2.6. Scanning Device Setup

1.2.6.10.1. Sheet Orientation IntelliTrax

Colorbar patch direction in the job setup window.



Instrument setup at press console:

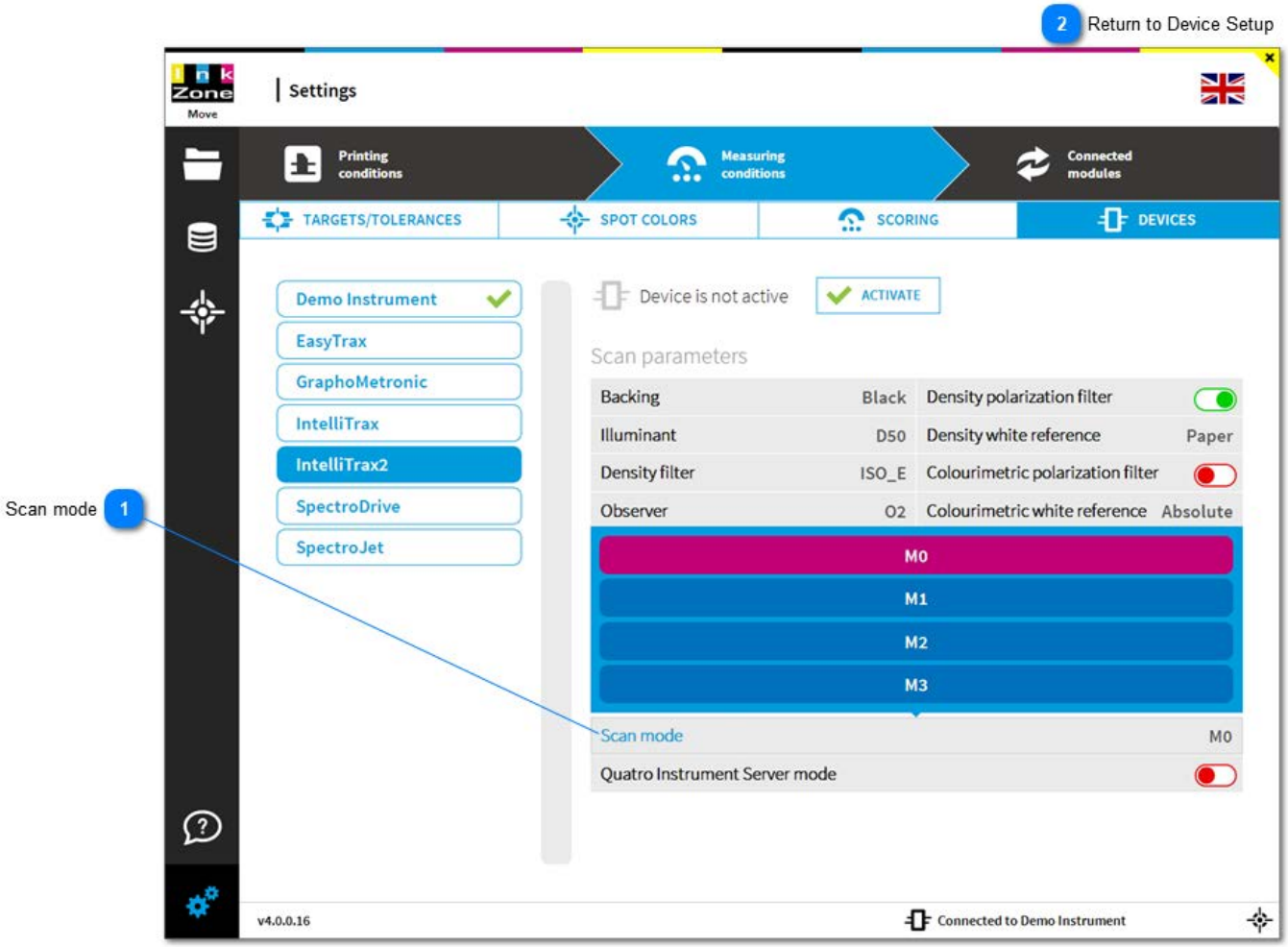


1 Return to Scan Device Setup

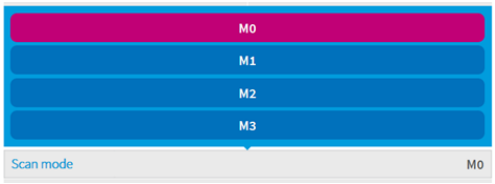
1.2.6. Scan Device Setup

1.2.6.11. Measurement Conditions M0 - M1 - M2 - M3

IntelliTrax2, eXact EAS, SpectroDriveNG, SpectroJet and SpectroDens support M1 reading (ISO specification 13655)



1 Scan mode



Select the colorimetric scan mode for IntelliTrax2 and SpectroDriveNG:

M0 legacy mode

M1 defined by the new standards ISO-13655 / ISO-3664

M2 UV-cut

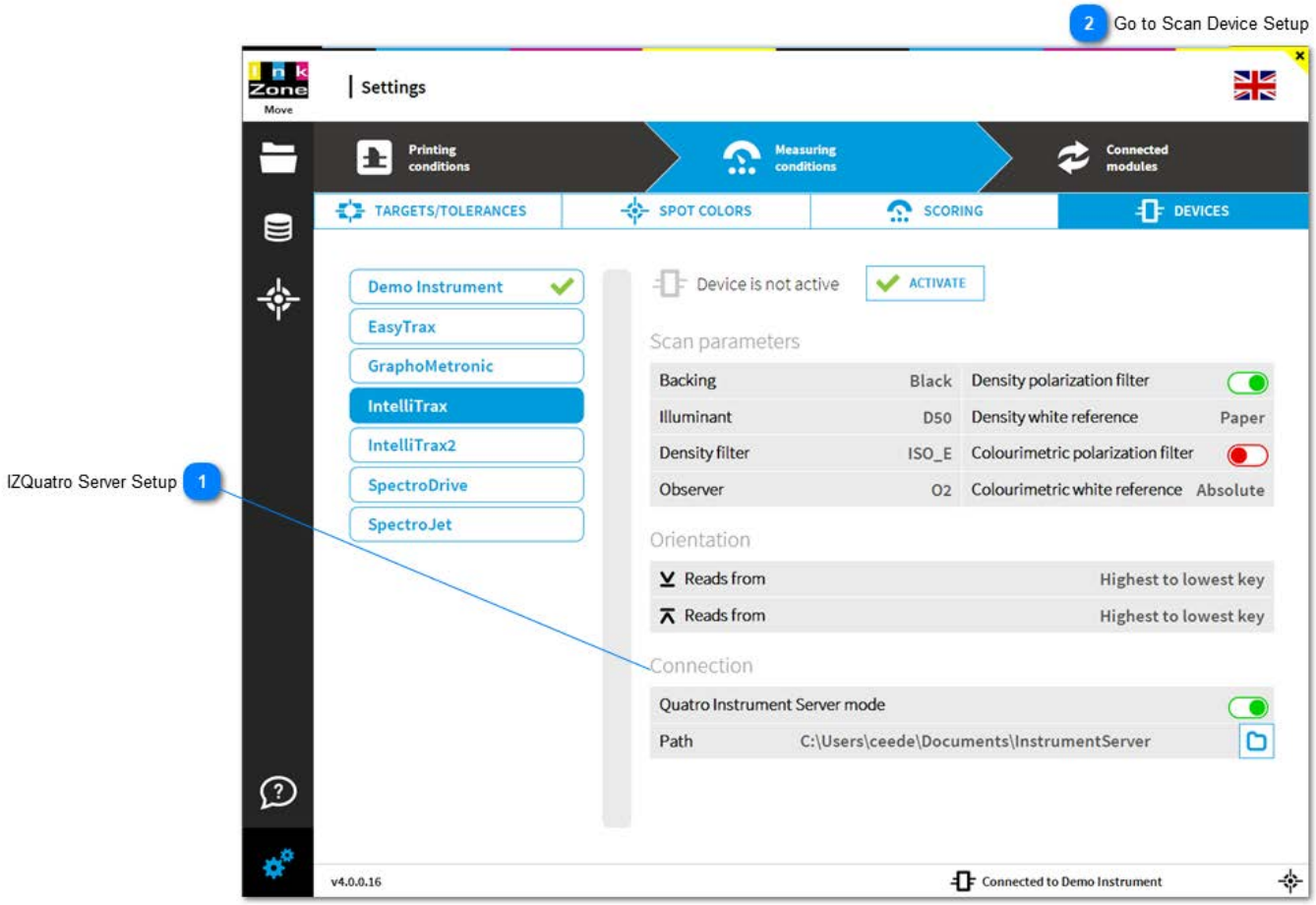
M3 polarized

See details here : http://issuu.com/konicaminoltabeu/docs/iso13655_demystified_e/1?e=0

2 **Return to Device Setup**

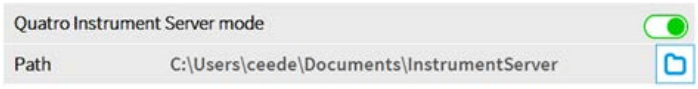
1.2.6. Scan Device Setup

1.2.6.12. Instrument Server IZQuatro



1 IZQuatro Server Setup

Connection

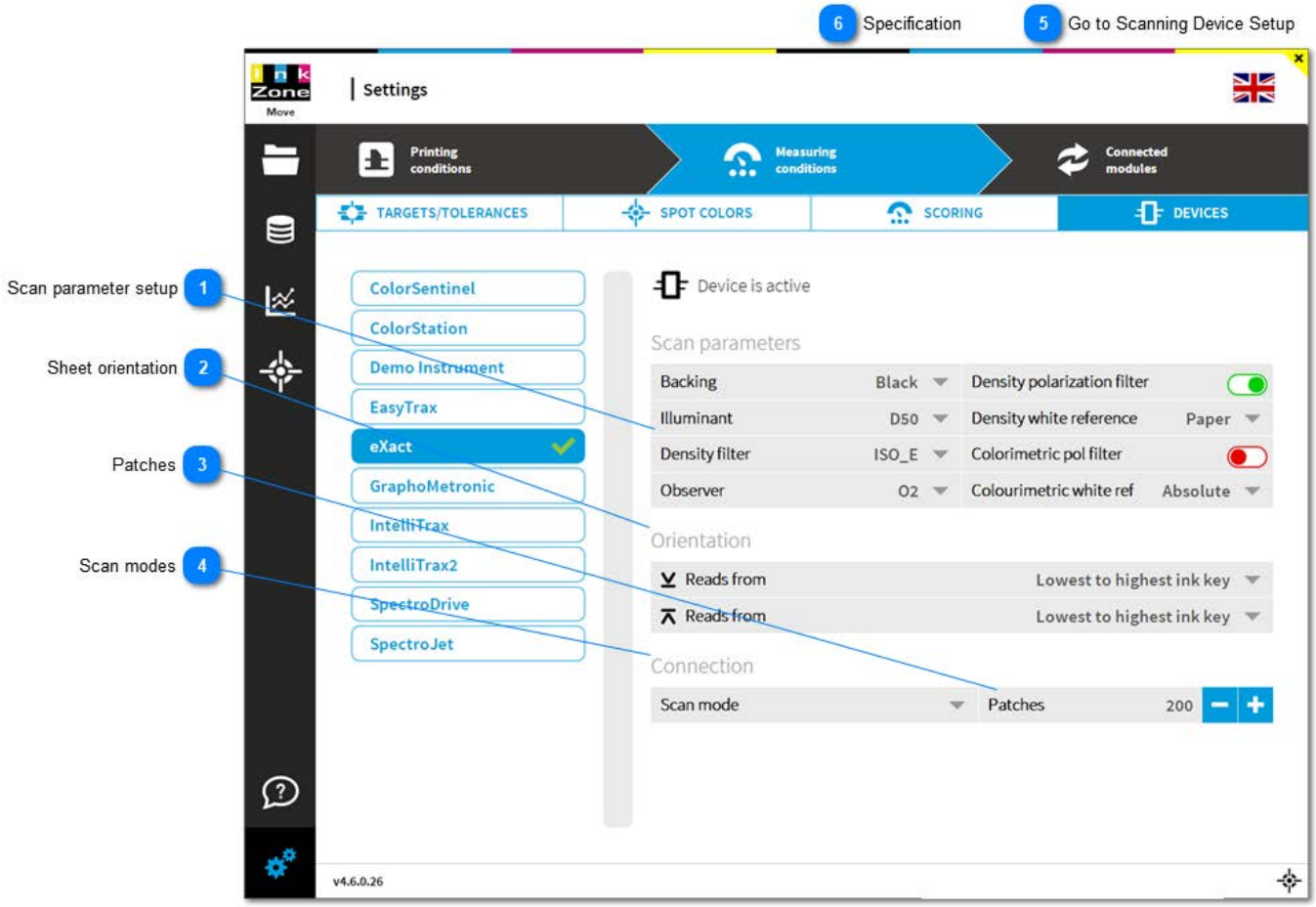


Activate here the **IZQuatro Instrument Server** mode and set the communication path between the two programs.

2 Go to Scan Device Setup

1.2.6. Scan Device Setup

1.2.6.13. eXact



1 Scan parameter setup

See details here: 1.2.6.9. Scan Parameter Setup

2 Sheet orientation

See details here: 1.2.6.10.1. Sheet Orientation IntelliTrax

3 Patches

Setup here the maximum number of patches to be scanned from the full sheet.

4 Scan modes

See here the measurement conditions: 1.2.6.11. Measurement Conditions M0 - M1 - M2 - M3

5 Go to Scanning Device Setup

1.2.6. Scanning Device Setup

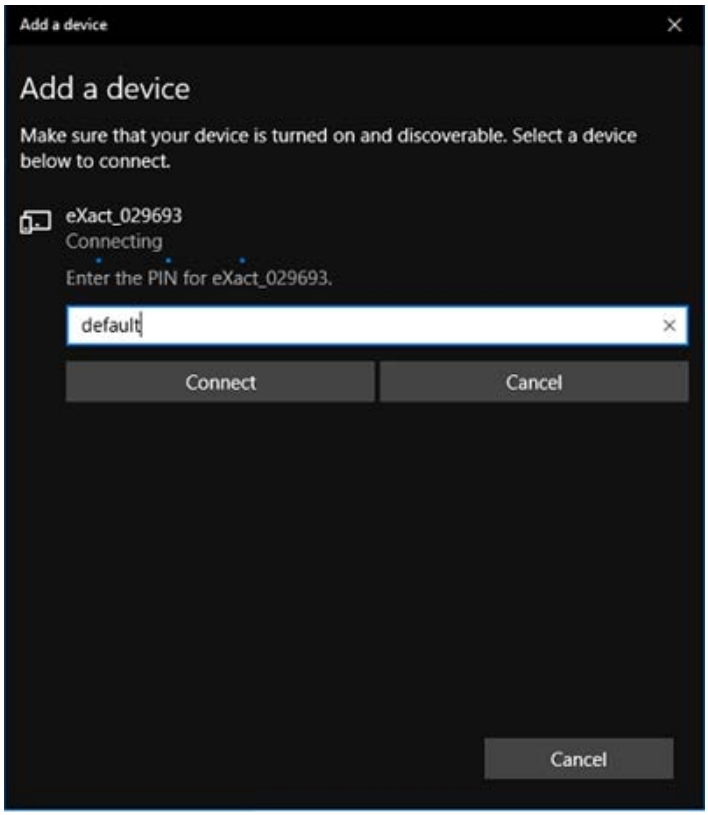
6 Specification

Producer	X-Rite
Patch size	min. 3.0mm with aperture size 1.5mm min 4.0mm with aperture size 2 mm More details are here: Min Patch size X-Rite tech support
Size	up to 65"
Connected by	USB and Bluetooth See: 1.2.6.13.1. Connect by Bluetooth
Measurement Conditions	M0, M1, M3
Comment	supports automated scanning replaces EasyTrax

1.2.6.13.1. Connect by Bluetooth

From X-Rite support page:

You must use the pairing code '**default**' (no quotes) when pairing a BlueTooth-enabled eXact to a PC. Pairing the BlueTooth-enabled eXact handheld incorrectly can result in the appearance of a connection, but the device will not interact with X-Rite software.



Step by step pairing procedure:

1. Insert the supplied BlueTooth dongle into an available USB port. Windows will automatically search for and find the proper drivers.
Make sure that BlueTooth is activated on the eXact by going to My Settings>Instrument>BlueTooth and selecting 'On'.

2. In the Windows Toolbar (in the lower right corner) click the BlueTooth icon and select 'Add a Device'.
A window will open and will populate with available BlueTooth devices. Note that it may take several seconds before the available devices are identified by name in the list. Any eXact with activated BlueTooth that are in range will show up in the list and will be identified by their serial number.

3. Select the eXact from the list that you wish to pair. Click 'Next".

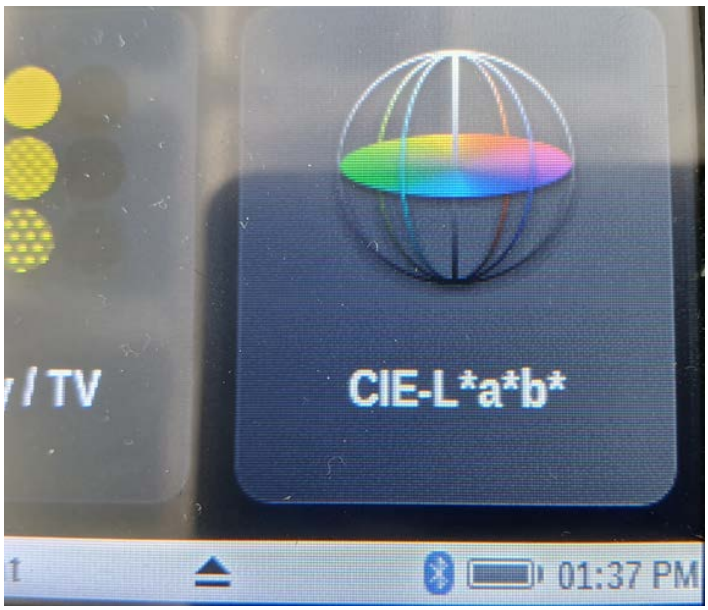
4. You will be presented with Pairing options. Select '**Use the device's pairing code**' and click 'Next".

5. In the next window, confirm that you are connecting to the correct device and enter the **eXact's pairing** code: '**default**' (do not type the single quotes).

6. A message will appear that the eXact has been successfully paired and device drivers will be loaded.

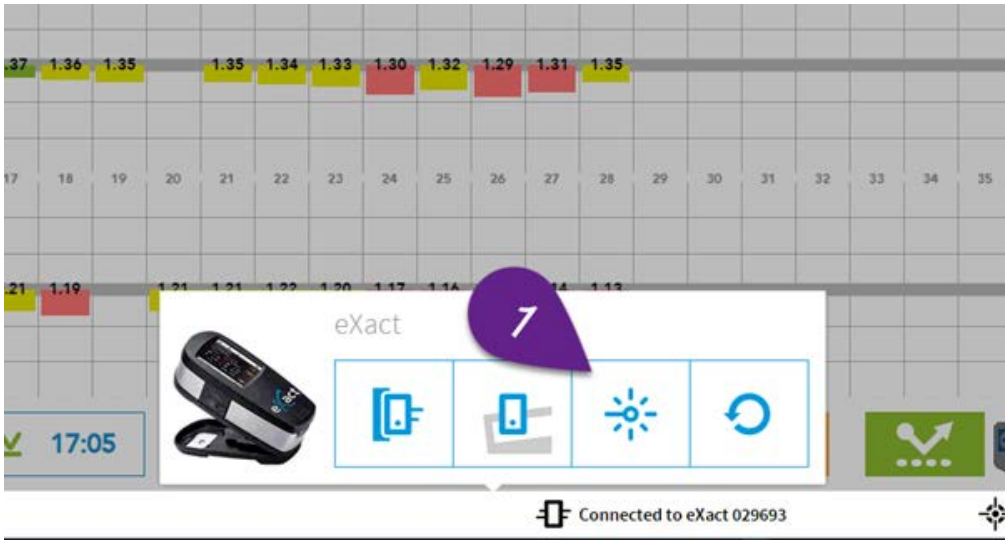
1.2.6.13.2. Connection Status

The instrument changes the Bluetooth symbol from **grey** to **blue** when the PC successfully connects to it.
Note: the grey symbol means no connection!



1.2.6.13.3. Laser On

Switch on the eXact autoscan line laser **(1)** in the instrument dialog, accessible from lower right corner. The laser stays on for 30 seconds.
There is no button to switch it off manually.

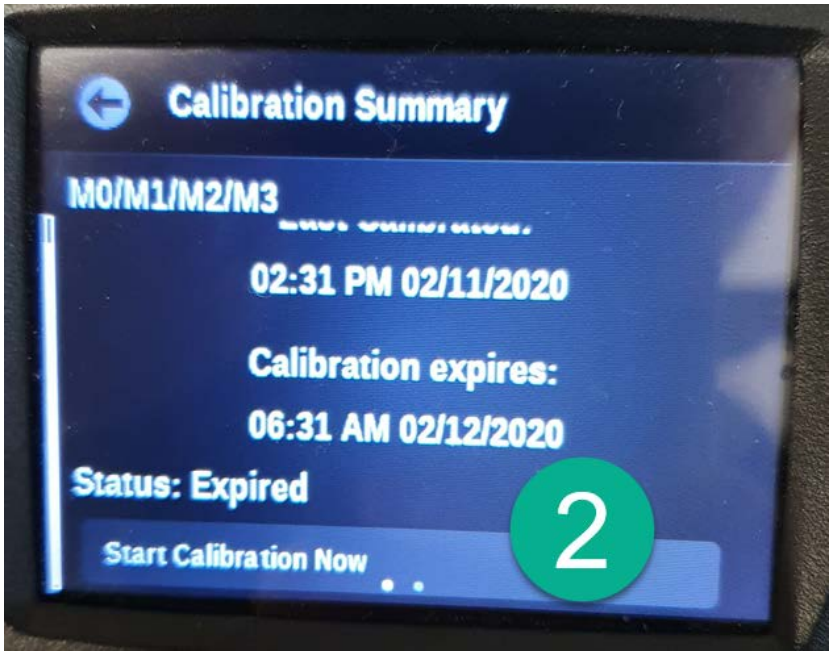


1.2.6.13.4. White Base Calibration

The instrument white base calibration can be started from the instrument itself.

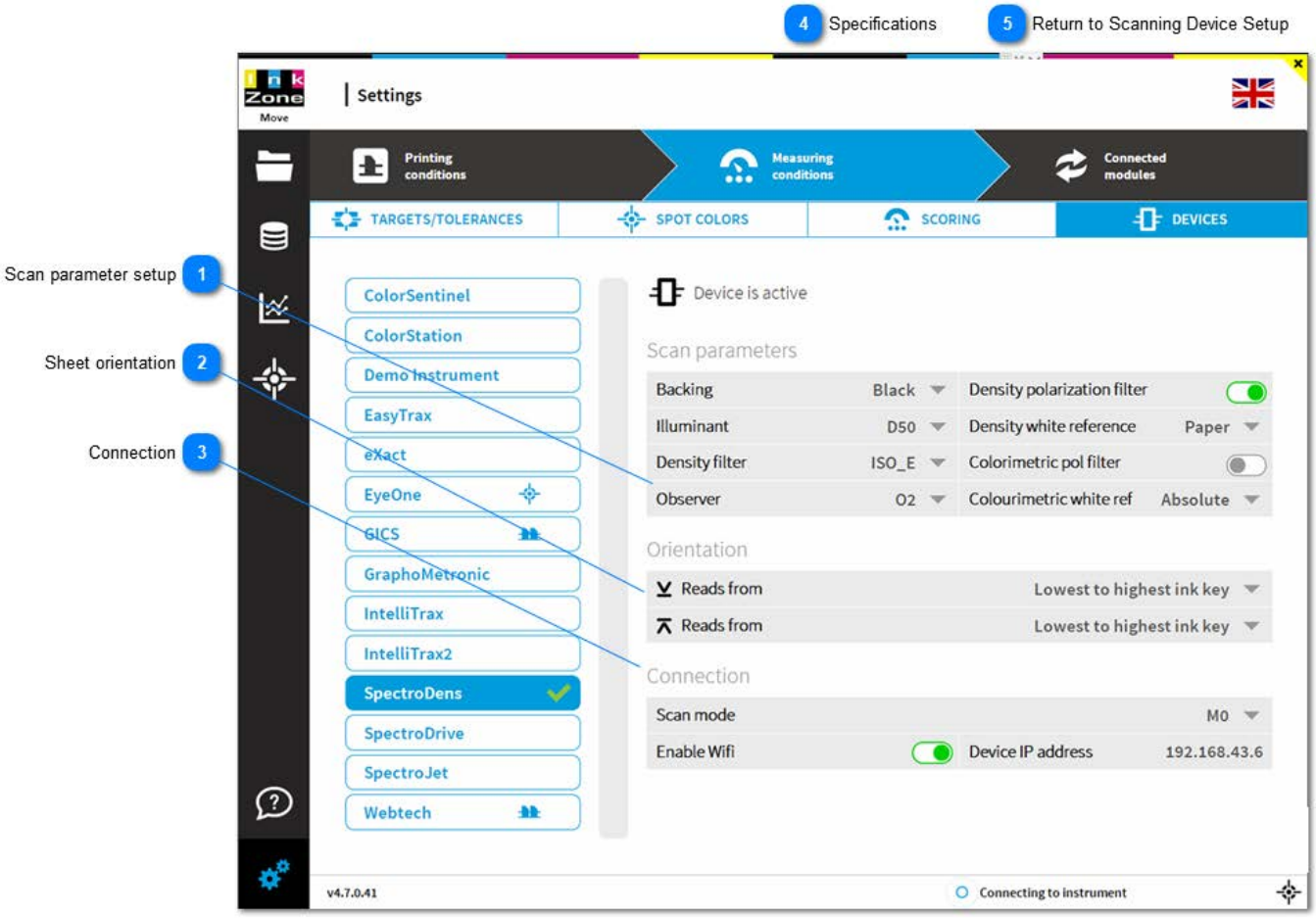
Go to Diagnostic mode and select the calibration icon (1).

Start calibration (2).

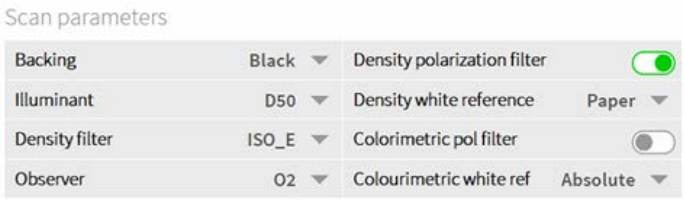


Finish!

1.2.6.14. SpectroDens



1 Scan parameter setup



See details here: 1.2.6.9. Scan Parameter Setup

2 Sheet orientation

See details here: 1.2.6.10. Sheet Orientation

3 Connection

Setup the SpectroDens IP configuration with SpectroConnect.
See document here: SpectroDens Wlan Setup

For IZM, setup the IP address and enable the Wifi setting.
An USB connection is used when the Wifi setting is off.

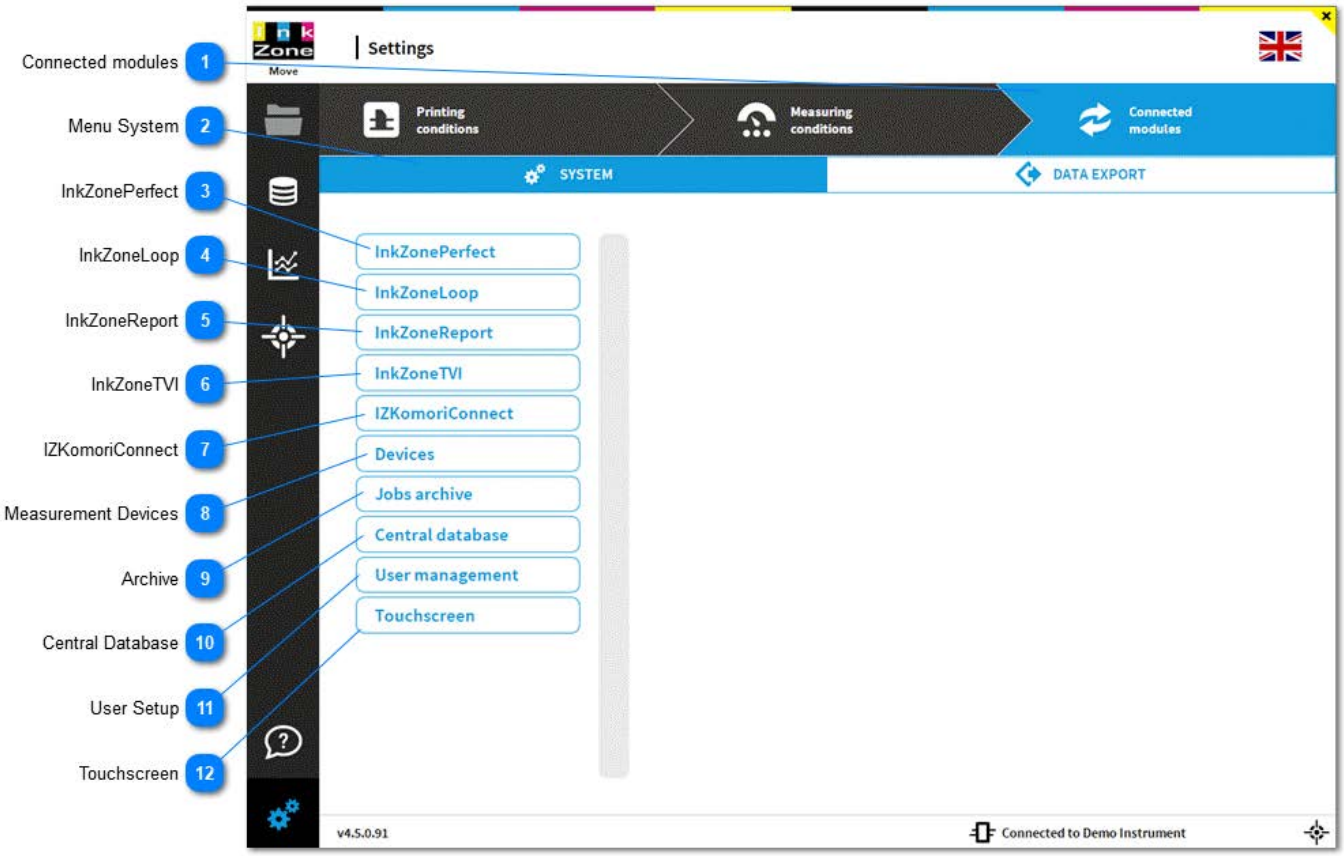
4 Specifications

Producer	Techkon
Min. patch size	6 mm without contrast bar (patch separator)
Scan length max	200 patches in 10 sec
Connected by	USB or WiFi
Measurement Conditions	M0, M1, M2, M3
Comment	Colorbar scanning for color-control is only supported with SpectroDens Premium

5 Return to Scanning Device Setup

1.2.6. Scanning Device Setup

1.2.7. System Setup



1 Connected modules

Opens the menu Connected modules with menu entry
a) System
b) Data-Export

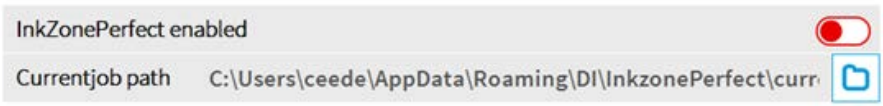
2 Menu System

Opens the submenu System

3 InkZonePerfect

When InkZonePerfect (ink-preset) is installed on the same computer then enable it here.
After the activation, a new job from always starts from InkZonePerfect by selecting the prepared CIP3 data with job name and color separation.

Note
The current job path is correctly pre-selected. Change the path only when required.
Job setup in InkZonePerfect, see here: 1.2.3.2.1. Calibration Curve InkzonePerfect



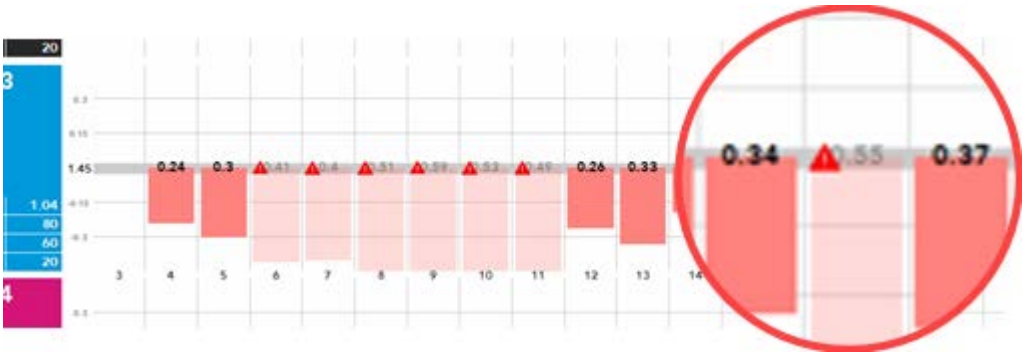
4 InkZoneLoop

Setting Enable/Disable
With InkZoneLoop installed on the same computer, enable the application in IZMove here.
All measurement data created by InkZoneMove is sent to the selected scan data folder to be processed by InkZoneLoop.

Setting: Disable key for out of range density
Set a density threshold to detect wrong scan data. When the scan data values exceed the threshold will cause no regulation for this particular ink-key.

Sample:
Target density setup = 1.55
Measurement = 0.3
Setup "disable key for out of range density " = 0.85
Difference of target / measurement = 1.55 - 0.3 = 1.25
The difference 1.25 exceeds the setup value 0.85. The ink key will be not regulated

An ink-key where the density is detected as "out of range" is shown with a red warning triangle and is not regulated at the press.



With InkZoneLoop installed, verify the **synchronize** option (needs to be activate) in the press setup.
See here: 1.2.1.2. Advanced Press Settings

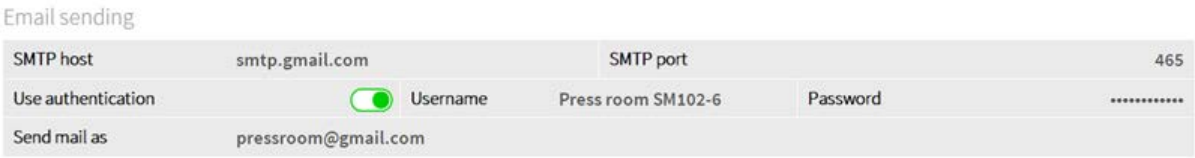
5 InkZoneReport

Company name and logo
Select company name and logo which appears on the report print out

PDF job name setup
Setup a job name with the parameters in brackets for generating the job name for PDF sheet and production reports:

<job>	job name
<sheet_report>	if the term Sheet-Report appears in the name
<production_report>	if the term Production-Report appears in the name
<date><time>	date and time
<sheet_number>	sheet number

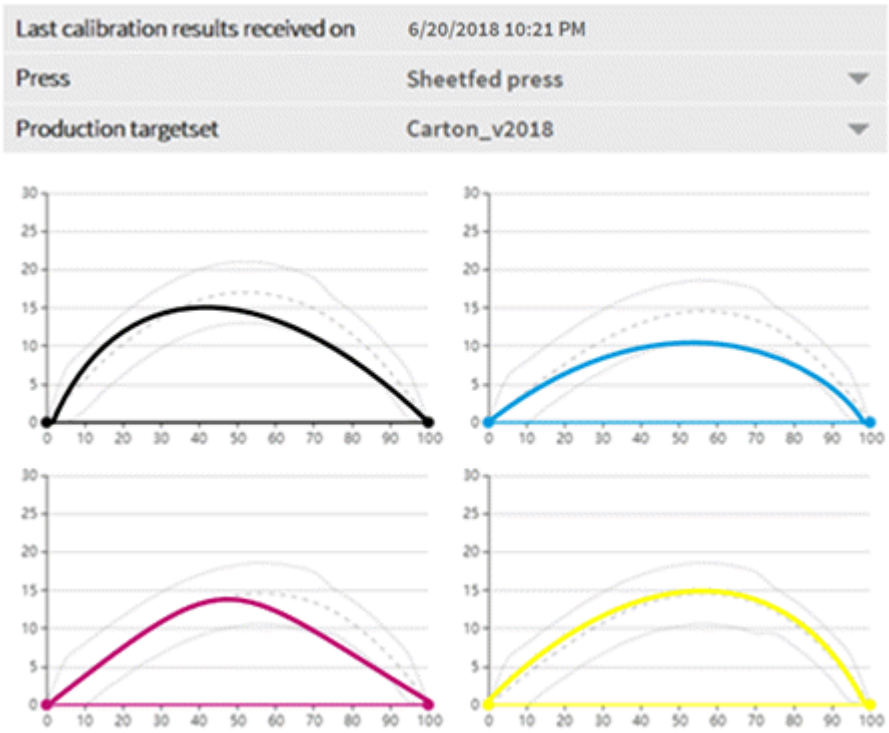
E-Mail report setup
Sends PDF reports over e-mail.
Setup mail server SMTP host address and port. Define the e-mail sender's address.
See further information on sending mails through Google Mail: Send e-mail with Google Mail server



E-Mail recipients
Create an alias with one or a group of e-mail recipients. For a group of recipients, use a semi-colon to separate the mail addresses.
An alias is either internal or external. This helps avoiding mistakes when sending reports.
The rule is that e-mails defined as internal can be send always whereas external addresses are sent only when customer name from the job setup matches the e-mail alias name.
See setup customer name here: 1.3.2. New Job

6 InkZoneTVI

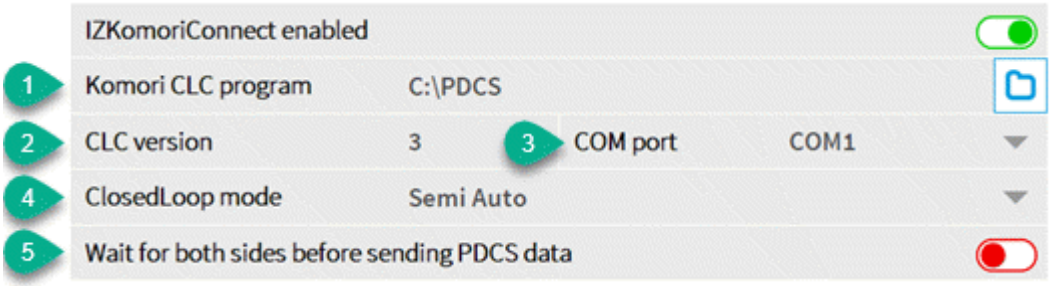
Displays information about the current compensation data set for a given press and targetset which both are selected from the drop down list:



7 IZKomoriConnect

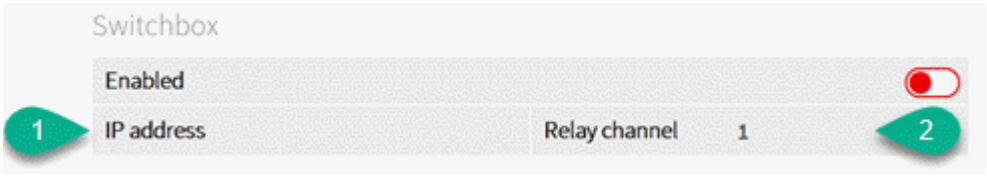
IZKomoriConnect

InkZoneKomoriConnect links to the Komori PDCS closedloop application



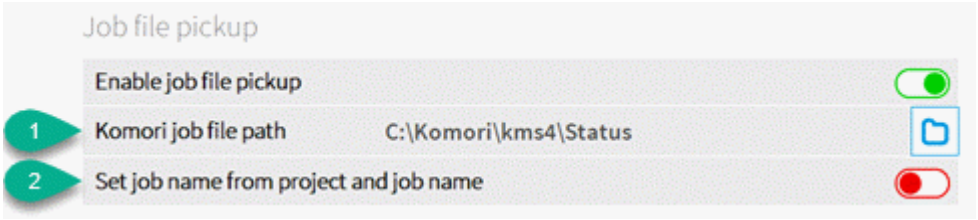
1	Komori CLC program	Set the path to the Komori CLC program. Usually it is located in folder C:\PDCS
2	CLC version	Select 3 or 4 (double check what is installed)
3	COM port	COM port used by the CLC program
4	Closedloop mode	Semi- and full auto. Standard is semi auto which requires the operator to confirm ink-key changes at the console desk. The setting Auto changes ink-keys immediately after transfer.
5	Wait for both sides...	Enable when using a perfecting press. Data is sent to press when both sides are scanned

When using an IZSwitchbox than configure the parameters here:



1	IP address	set IP address , usually 192.168.0.99
2	Relay channel	usually channel 1 is used

Use job name information from Komori KMS:



1	Path	Select the path to the status folder within KMS
2	Project and job name	Form the IZMove job name by project and job name from KMS

8 Measurement Devices

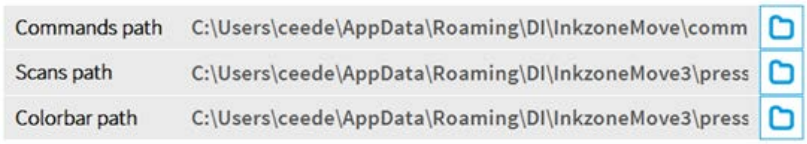
Devices

The **command path** is used to communicate to InkZonePerfect / Loop and needs to be set in these programs to the same location.

The **scan path** for the measurement data delivered by the scan instrument drivers IntelliTrax, EasyTrax, Graphometronic or SpectroJet.

The colorbar path is populated by InkZoneMove with the colorbar information file CBF for the scan instrument driver

Note: the default directories are correctly set and therefore change only when required.



9 Archive

Jobs archive

The oldest jobs are automatically archived to the selected **archive path** when the condition **free disk space** is less then **x %** of the disk drive.

10 Central Database

Use a centralized database for jobs and spot colors.
The local database automatically synchronizes to the main database and vice versa.

11 User Setup

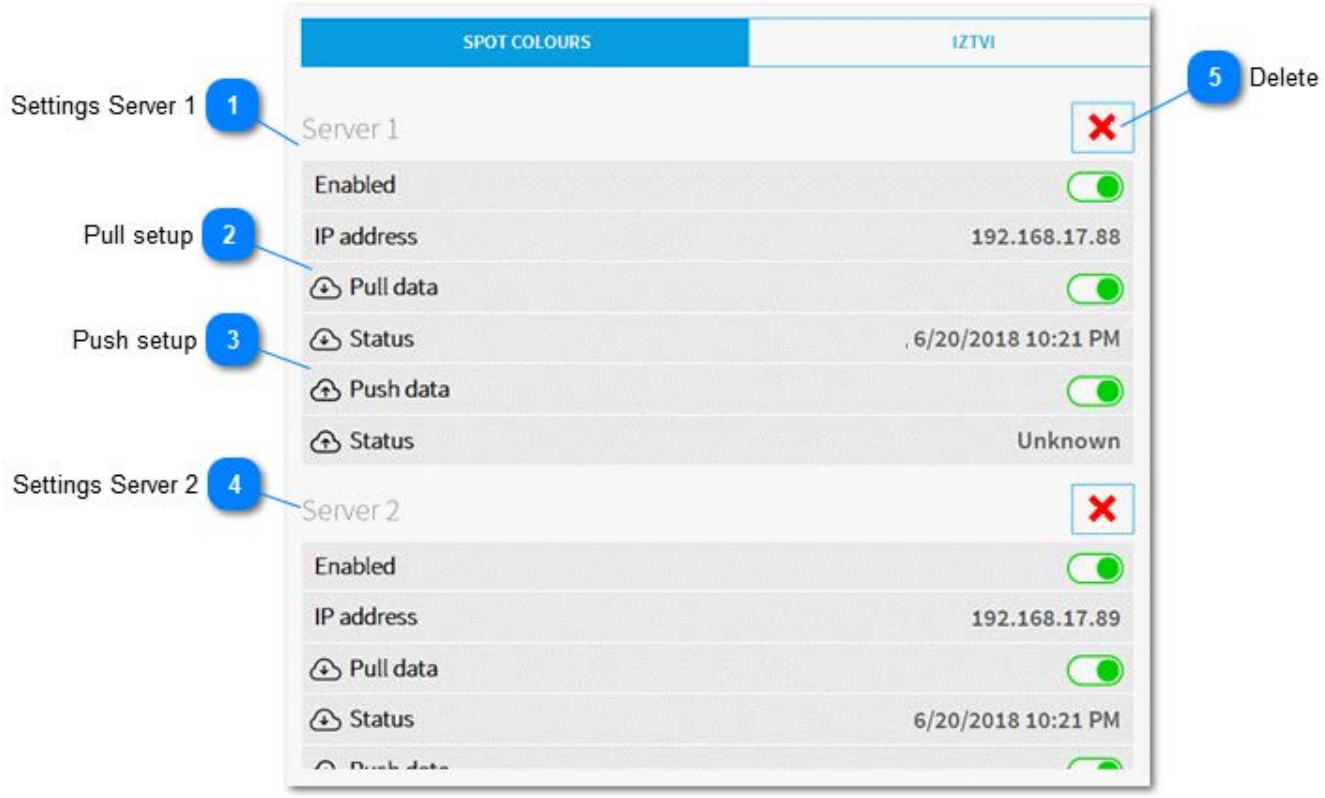
Enable the user management here. Add and modify existing user.

12 Touchscreen

Enables features to run optimized for touch-screen controlled PC.

1.2.7.1. Central Database

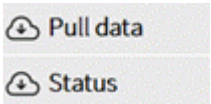
Select one of the tabs **Spot Colours , IZTVI or Report Jobs** and configure the synchronization to a main database.



1 Settings Server 1

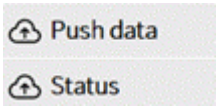
Shows all settings for server 1, including the connection status to the remote couchDB

2 Pull setup



Enable pull data to sync data from the remote server to the local database. All data from the remote database is synchronized to the local database.
First, set IP address and then enable it. The last status of the connection is shown.

3 Push setup



Enable push data to sync data from the local database with the remote server database. All data from the local database is synchronized to the main database.
First, set IP address and then enable it. The last status of the connection is shown.

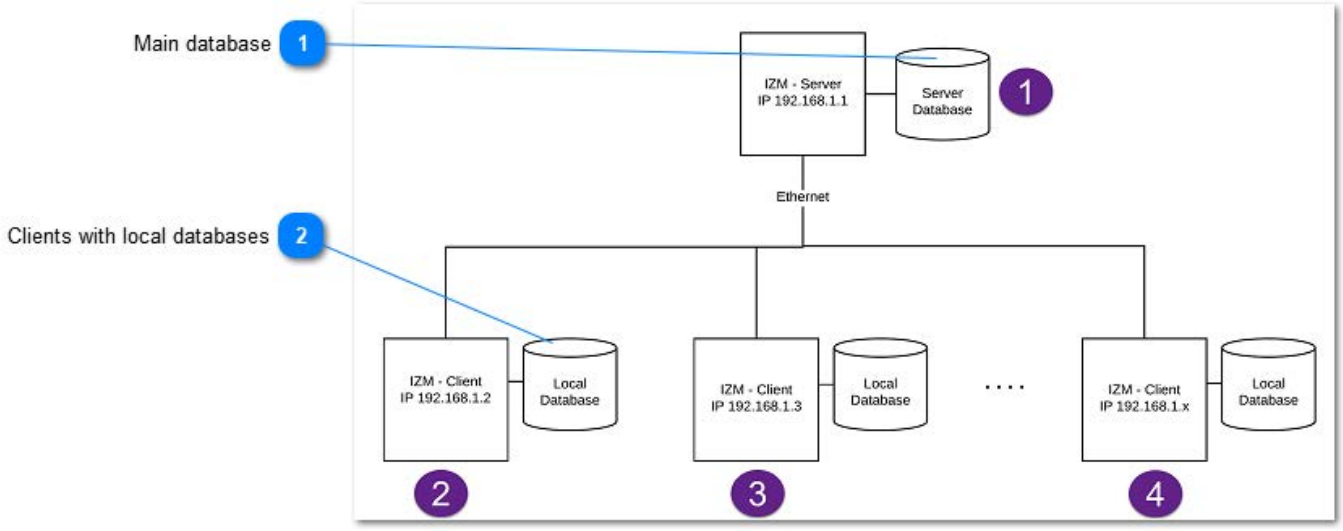
4 Settings Server 2

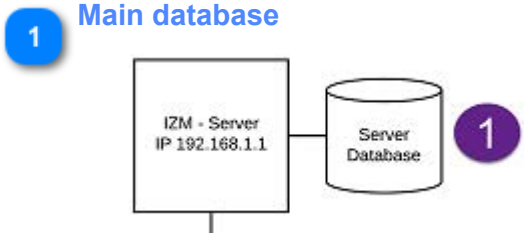
Settings for next server

5 Delete

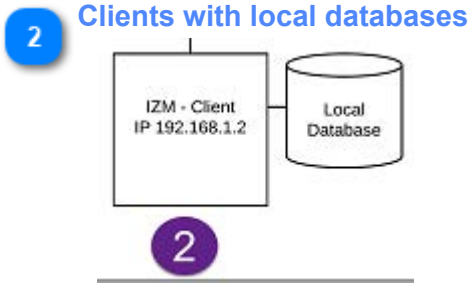
Delete the server setup.

1.2.7.1.1. Sample InkZoneMove with Centralized Database

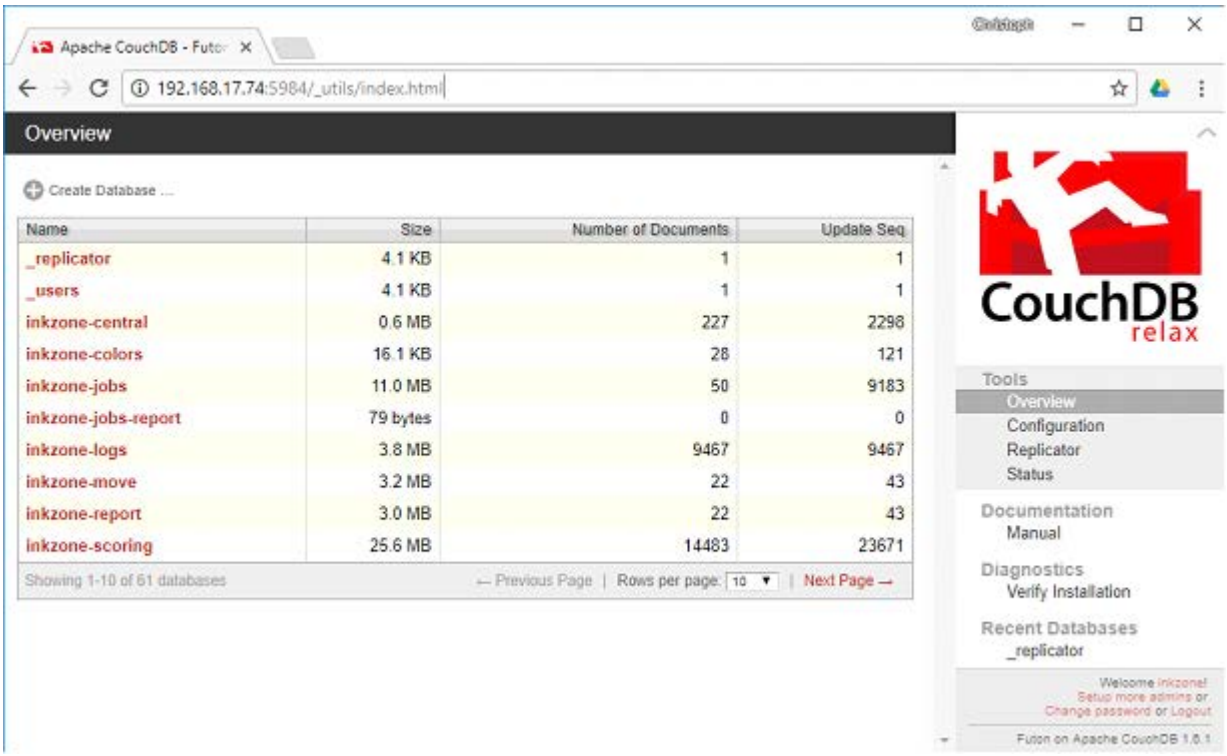




Settings for PC with main database (192.168.1.1)
The database can run on Linux or Windows. For couchDB v2 a 64 bit operating system is mandatory.
It's required to open the TCP port 5984, see Windows firewall setup: 1.2.7.1.2. Firewall Setup

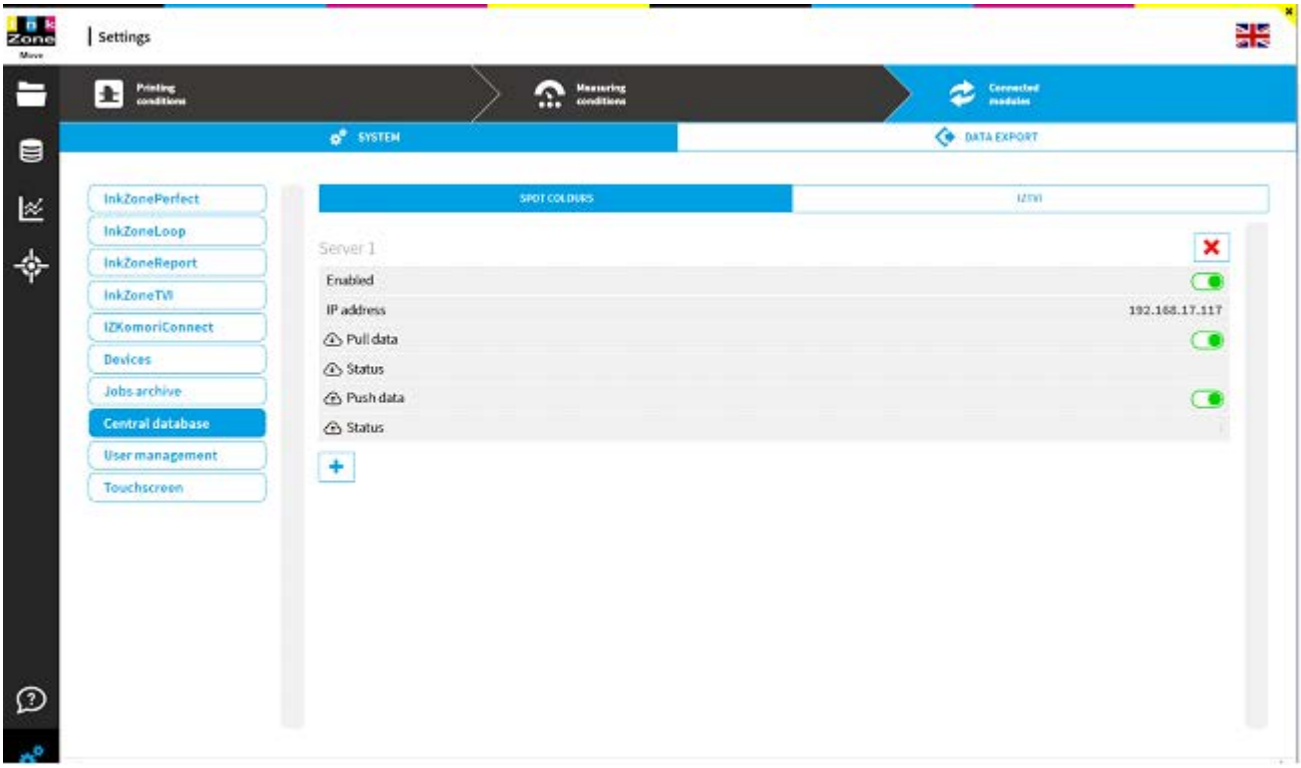


Test at the InkZoneMove client
After changing the firewall setup on the server, every IZM client (192.168.1.2. etc) is able to access remotely the servers couchdb configuration through a web browser, like:
http://SERVER_IP:5984/_utils/config.html (replace SERVER_IP with the real ip address)
username inkzone
password testing



You should see the couchdb data from the server database.

Setup InkZoneMove at the client PC



Set in “Central database/Spot Colours/IZTVI/Report” the server IP address and enable Pull and Push data.
Every new spot color is automatically propagated to the server database from where all other IZMove clients pull the spot color data to their local database.

Important

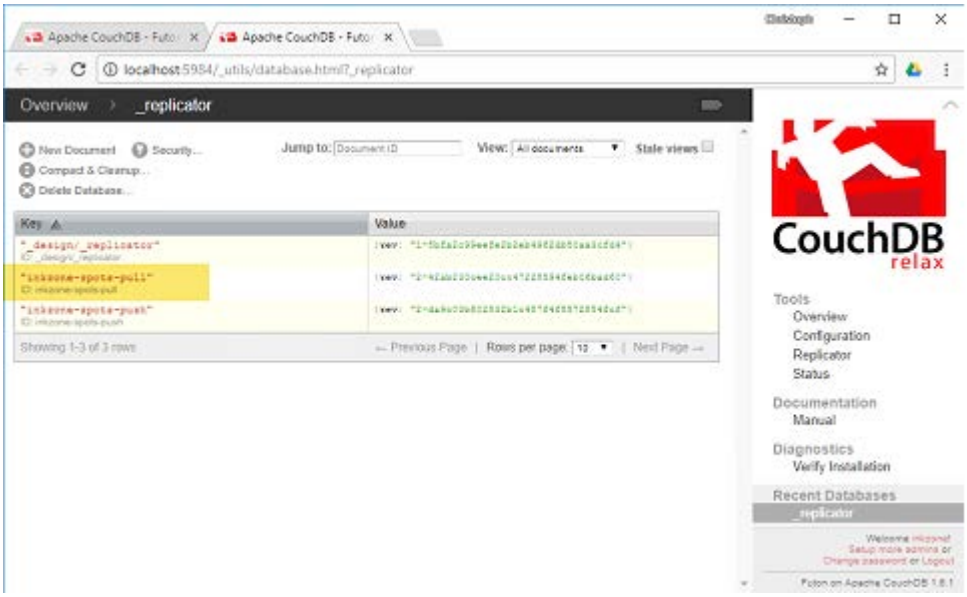
After creating a new spot color targetset, like “Pantone coated”, restart the clients IZMove to get it visualized in the client IZMove.

Note
The restart is not required after a new spot colors has been created, the restart applies only for targetset creation.

Verify replication status on client

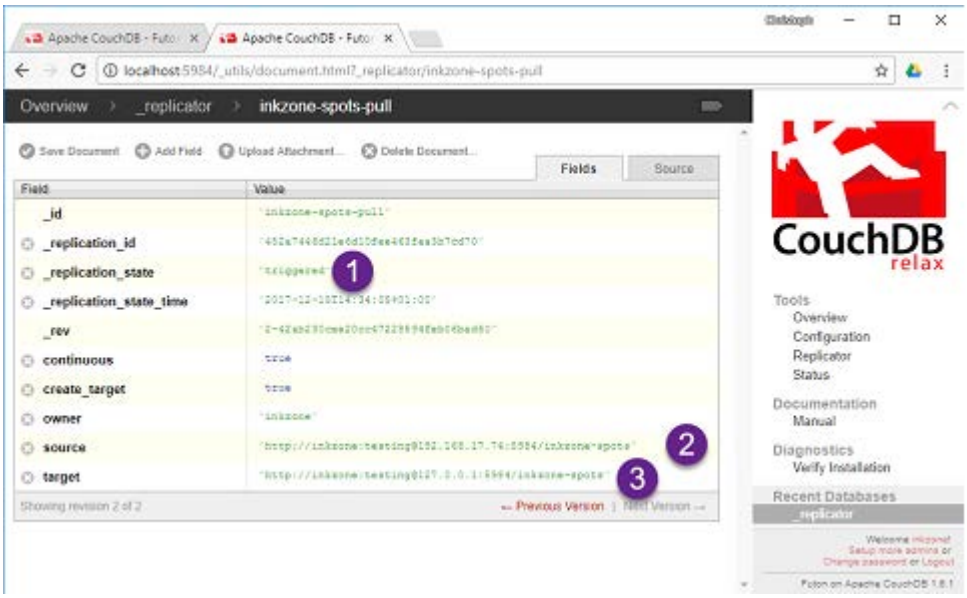
a) On the client open the link
http://localhost:5984/_utils/database.html?_replicator
to see the replication status page:

b)



Click on “inkzone-spots-pull”

c)



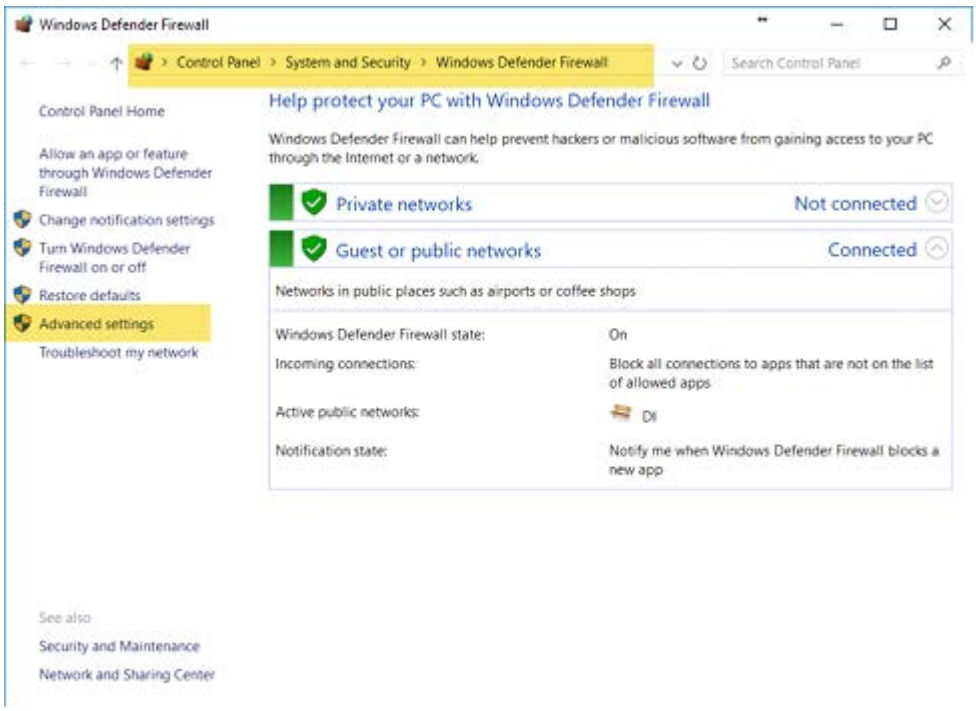
1) Should say “triggered”
2) Source address points to the IZM database server
3) Target is the local PC

1.2.7.1.2. Firewall Setup

On the main database server, the port 5984 needs to be opened.

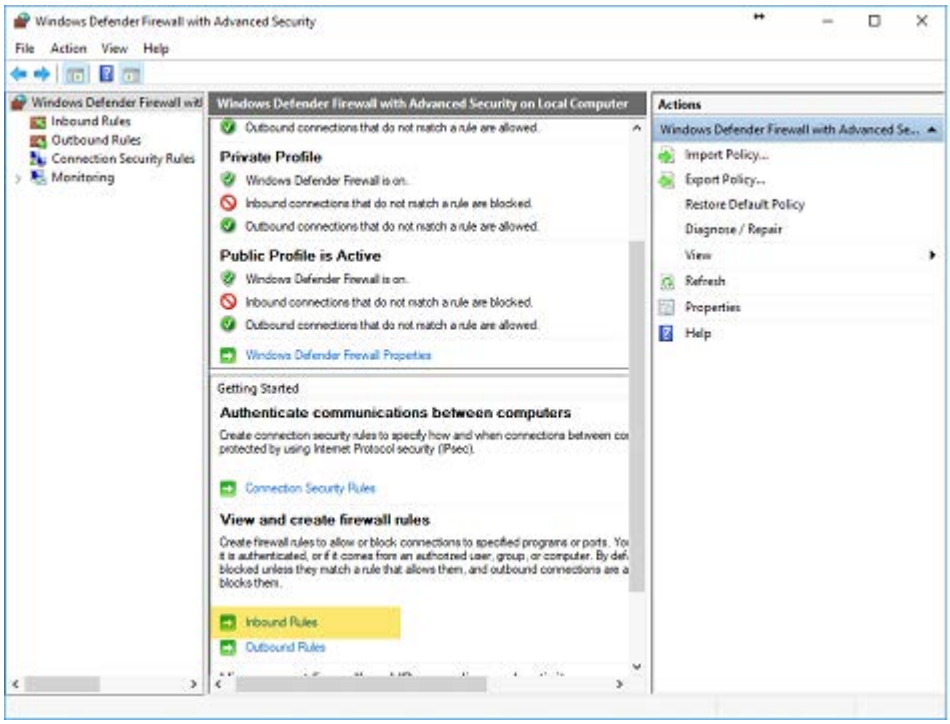
Configuration:

a)



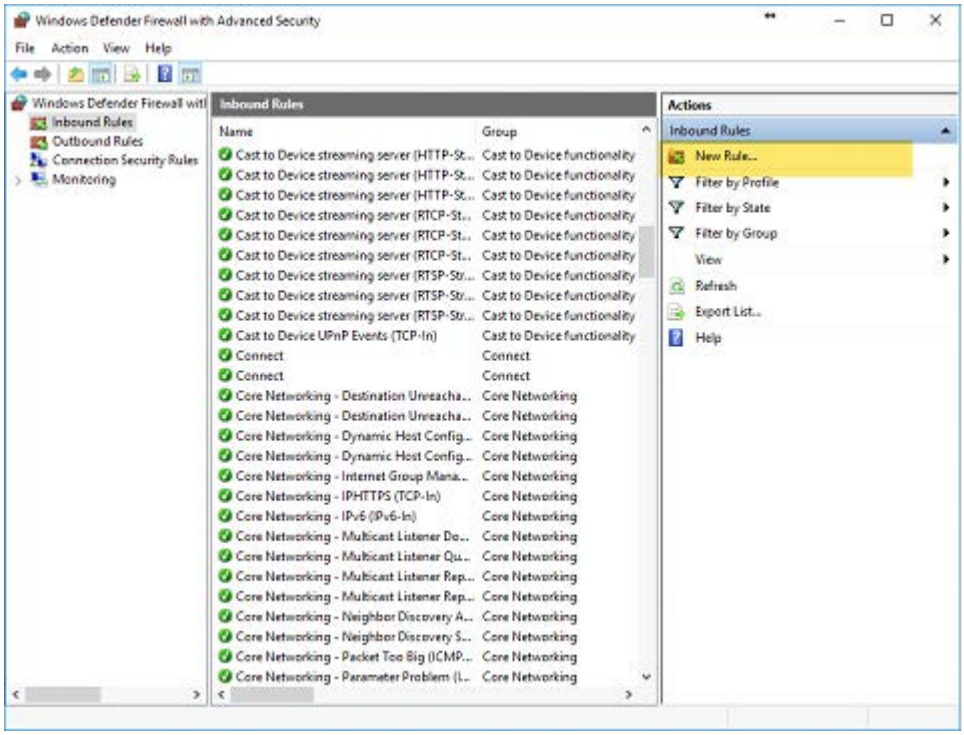
Open Firewall setting

b)



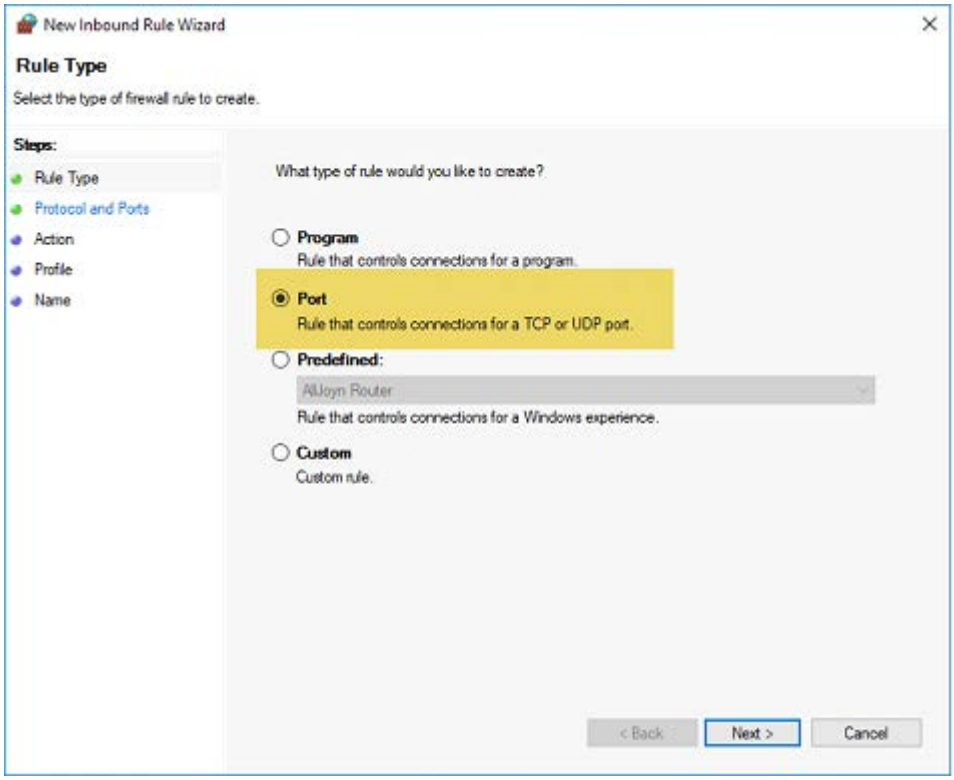
Create a new “Inbound Rule”

c)



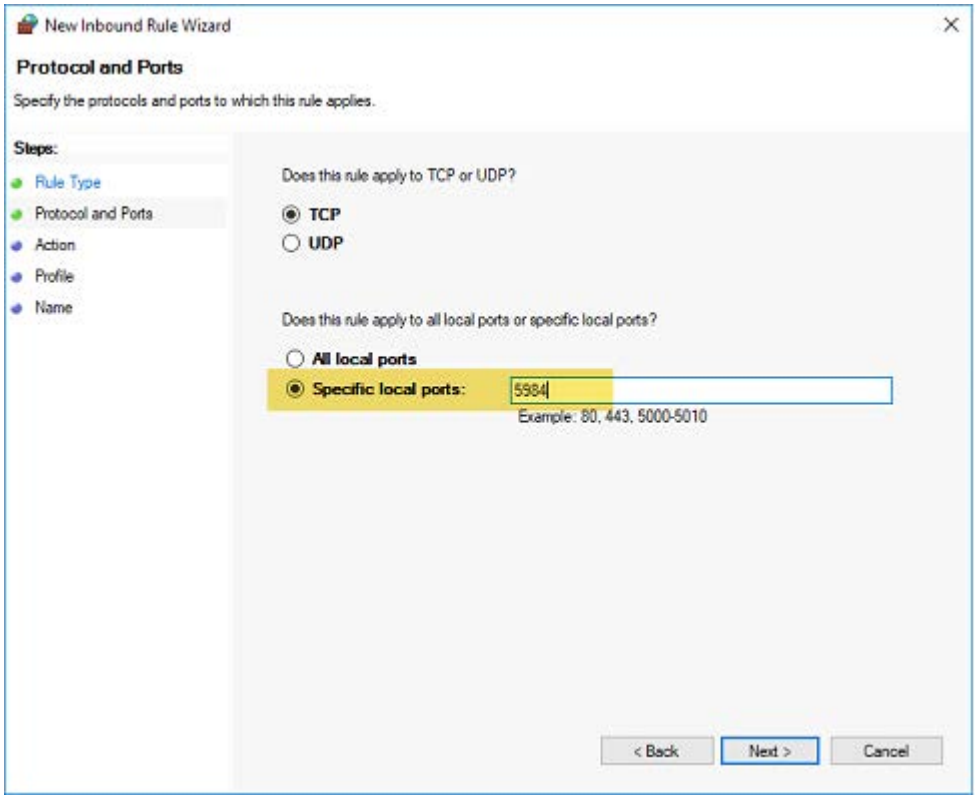
Select “New Rule”

d)



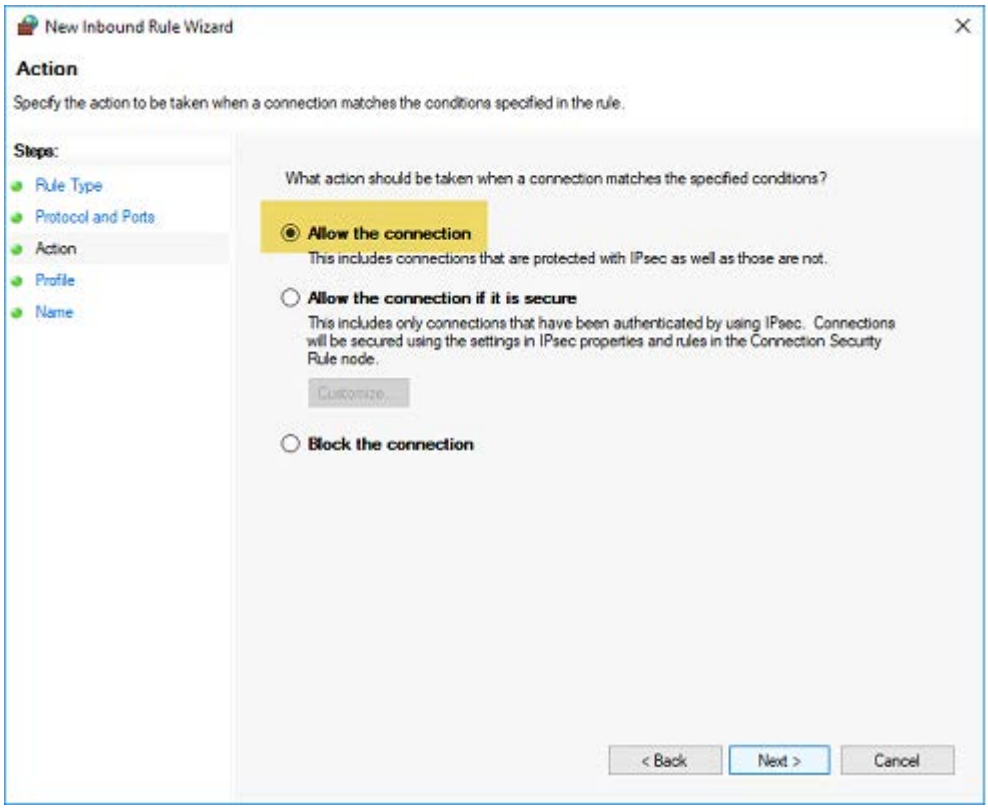
Select Port

e)



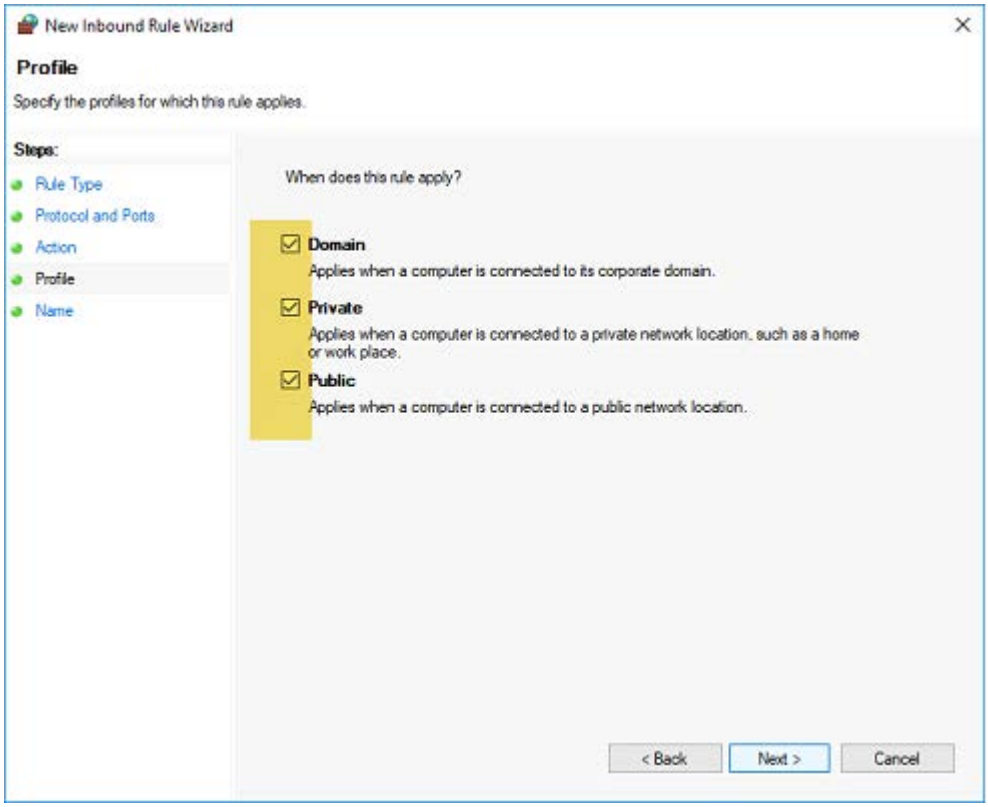
Port address is 5984

f)



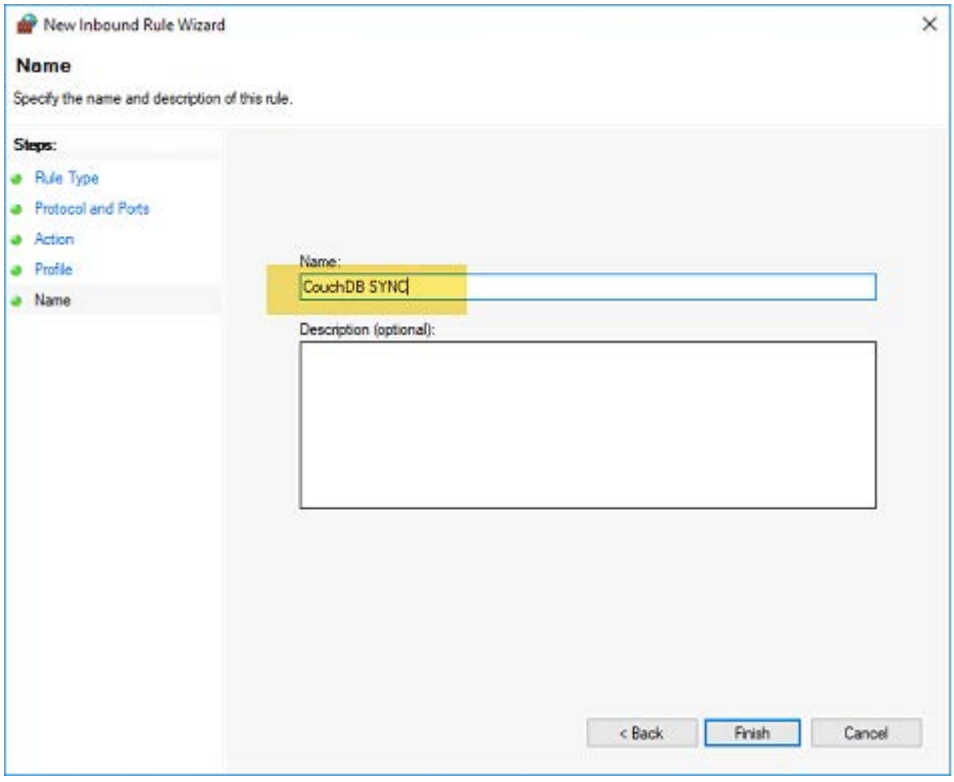
Allow for all connections

g)



Enable all networks

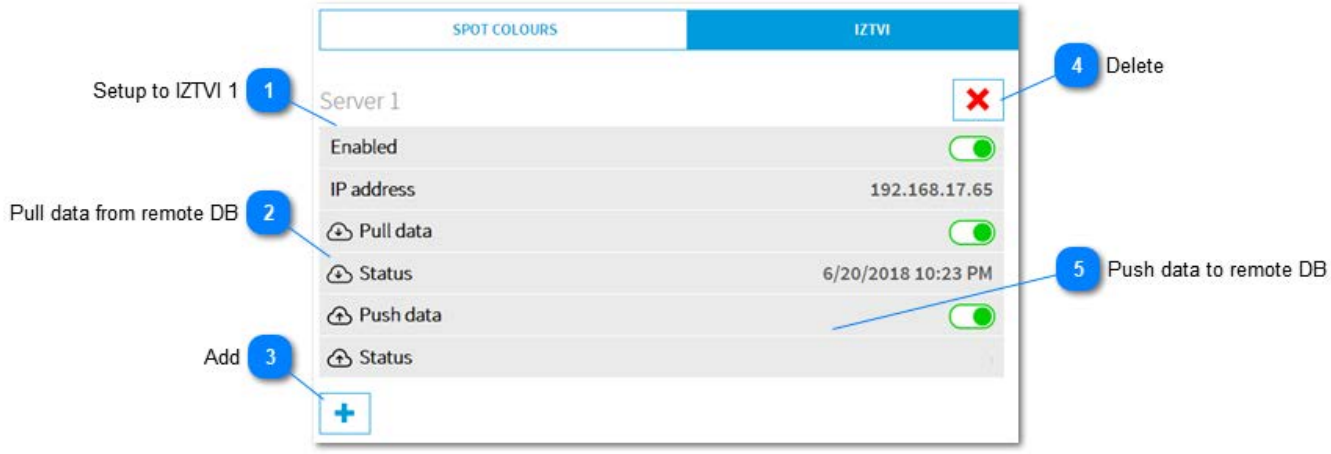
h)



Give the new rule a useful name. Finish!

1.2.7.2. Database IZTVI

Select tab **IZTVI** and configure synchronization to the IZTVI database for compensation data.



1 Setup to IZTVI 1

Configuration and status of connection to server 1.

2 Pull data from remote DB

InkZoneTVI data is pulled from the remote InkZoneTVI database to the local database. The second line shows the status of the last execution.

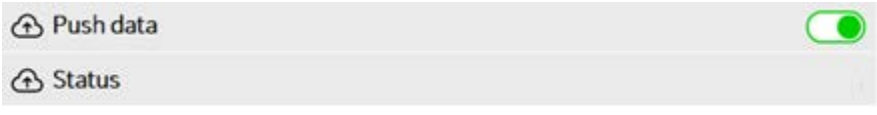
3 Add

Synchronize data to another InkZoneTVI station.

4 Delete

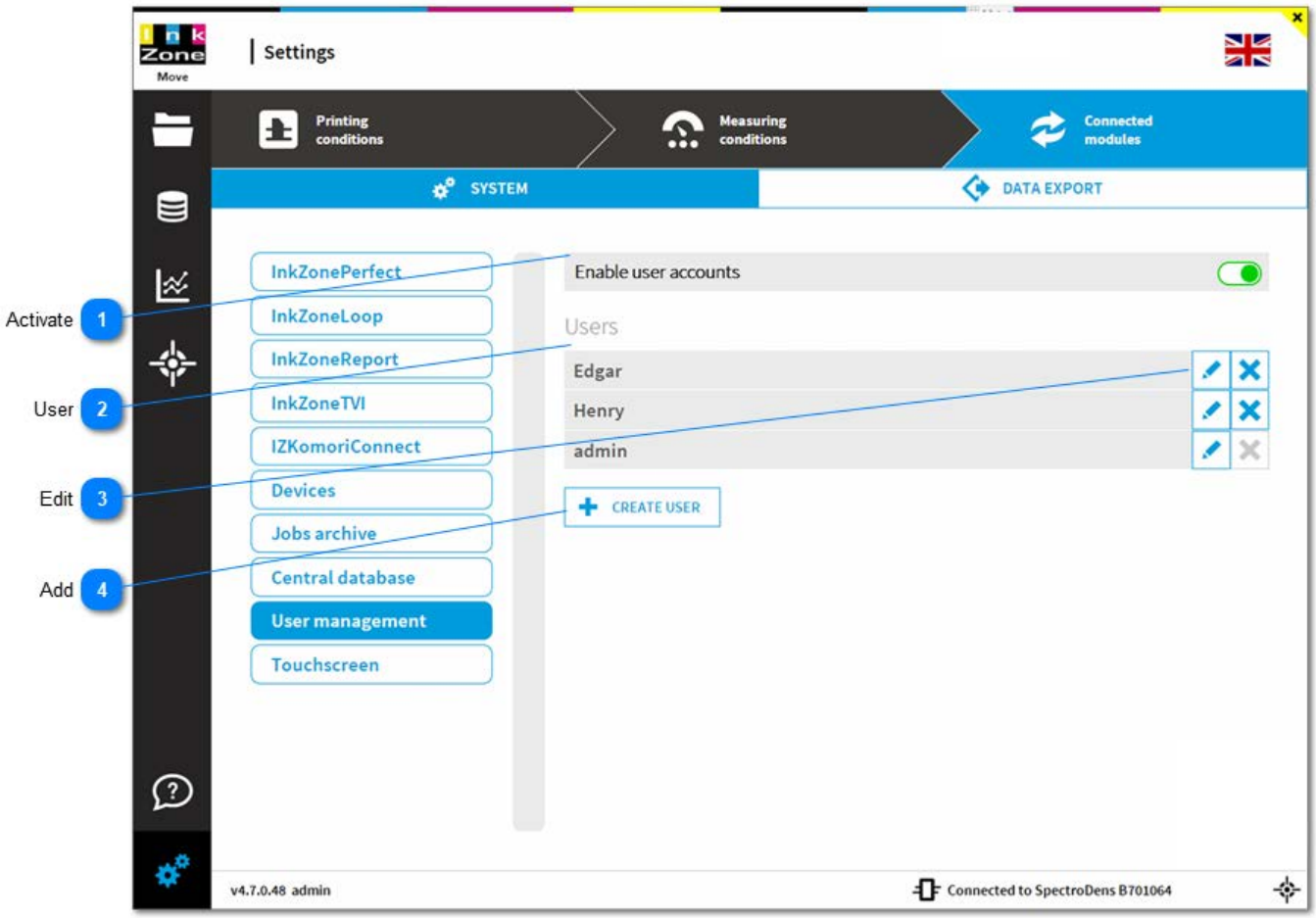
Deletes the synchronization setup.

5 Push data to remote DB



Data for InkZoneTVI is pushed to the remote InkZoneTVI database . The second line shows the status of the last execution.

1.2.7.3. User Management



1 Activate

Enable the user management. After startup, the user can log in with his account.
The user names are recorded for every job and is printed on the IZReport.

The operator can logout from a session from the dashboard screen.

2 **User**

Manage all user from here. The admin account can not be deleted.

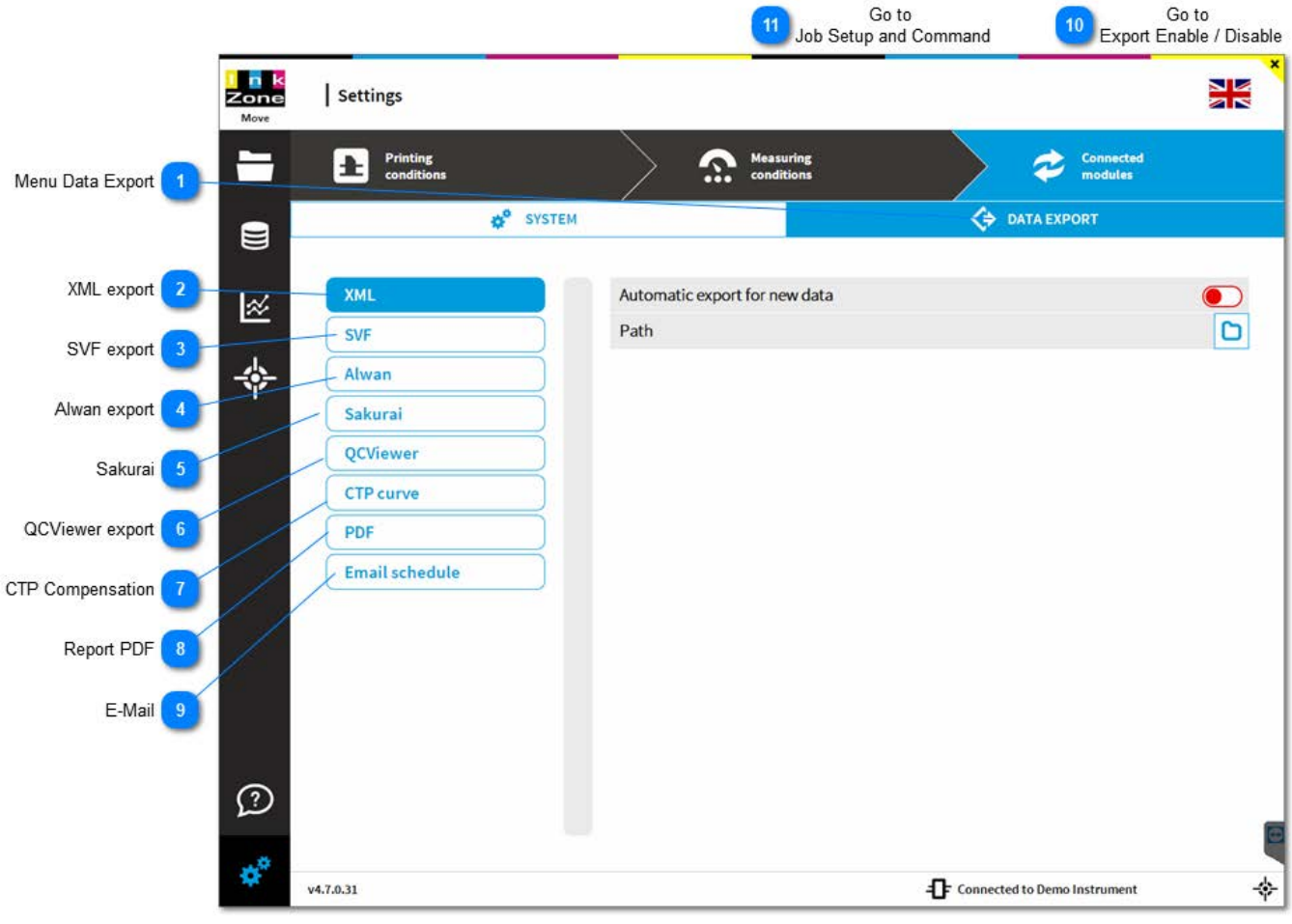
3 **Edit**

Create a new password or delete the user.

4 **Add**

Add a new user

1.2.8. Data Export Setup



1 **Menu Data Export**

Sub menu Data Export

2 **XML export**

See here: 1.2.8.2. XML Export

3 **SVF export**

See here: 1.2.8.3. SVF Export

4 **Alwan export**

See here: 1.2.8.4. Alwan Export

5 **Sakurai**

See here: 1.2.8.5. Sakurai

6 **QCViewer export**

See here: 1.2.8.5. QCViewer Export

7 **CTP Compensation**

See here: 1.2.8.6. CTP Compensation Export

8 **Report PDF**

Setup a PDF report template, see here: 1.2.8.8. PDF Report Template

9 **E-Mail**

Schedule an e-mail when a job is considered as finish.
See here: 1.2.8.9. E-Mail Schedule

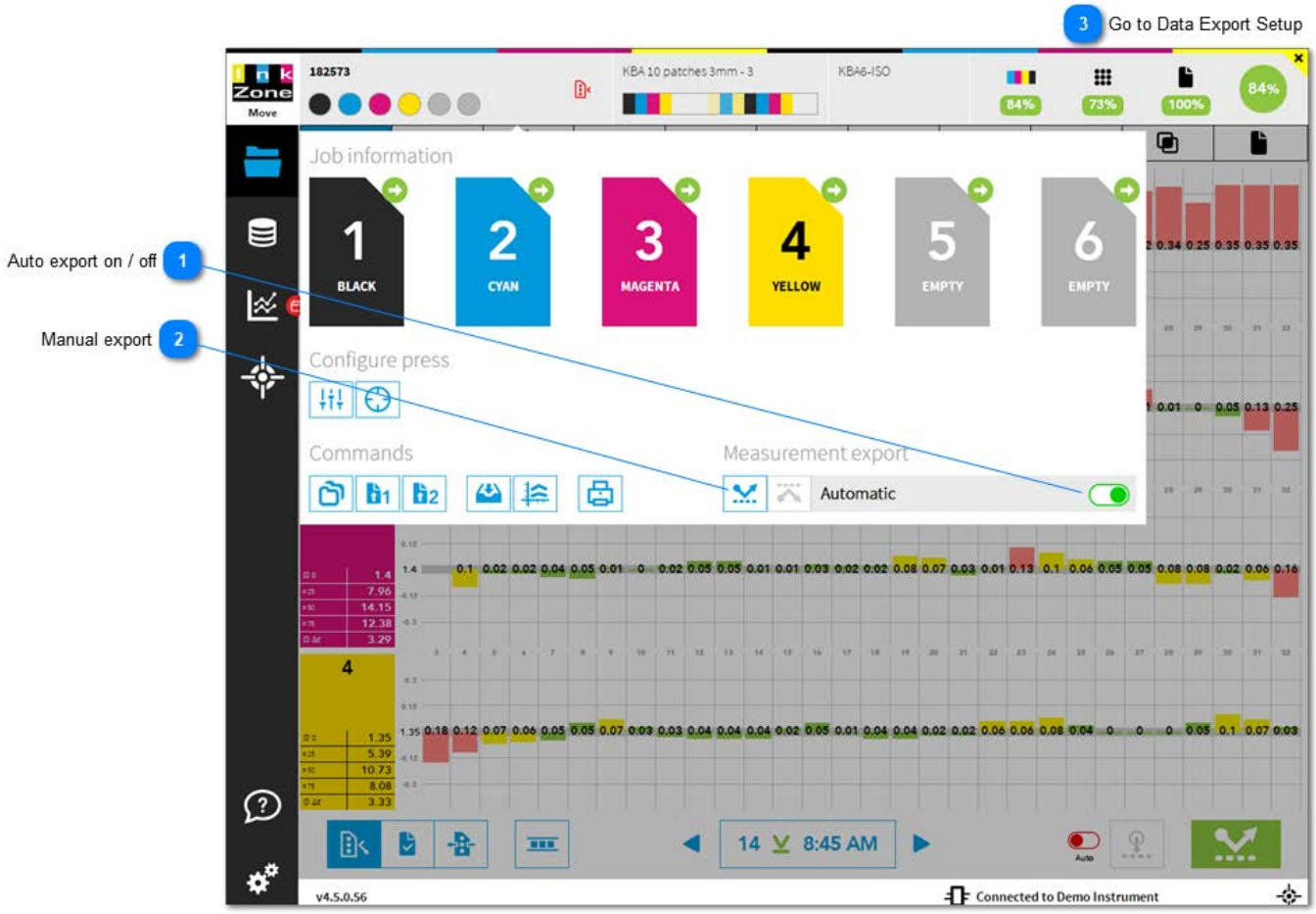
10 **Go to Export Enable / Disable**

1.2.8.1. Export Enable-Disable

11 Go to
Job Setup and Command

1.1.1.1. Job Setup Information

1.2.8.1. Export Enable-Disable



1 Auto export on / off

By default the automatic export is active and every measurement is automatically exported.
When it Is disabled than export a single measurement with the buttons on the right.

2 Manual export

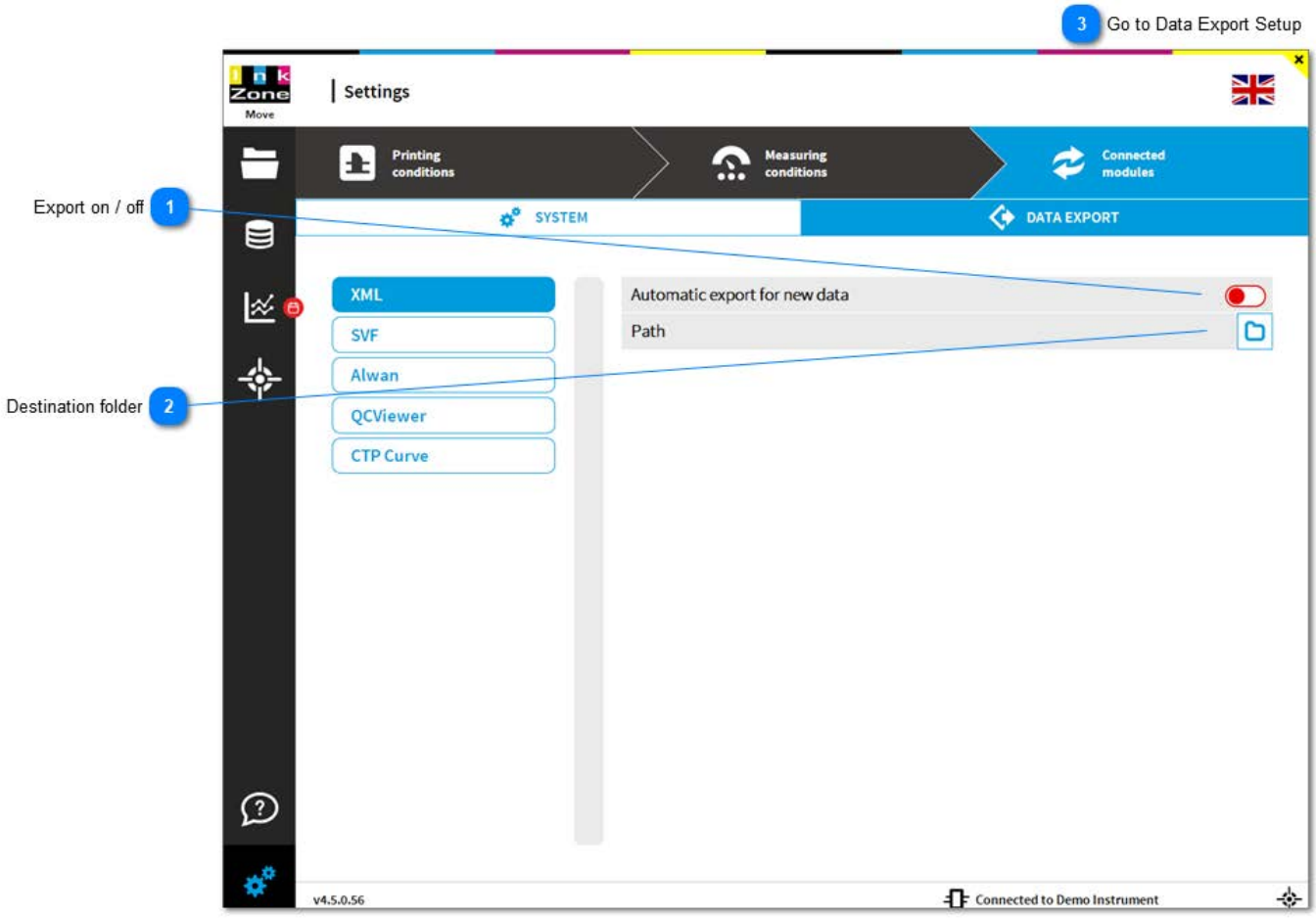
Manually exports measurement data according to the Data Export setup, see here:
1.2.8. Data Export Setup

3 Go to Data Export Setup

1.2.8. Data Export Setup

1.2.8.2. XML Export

Exports the generic data measurement format by InkZone. It contains color data for every measured patch.



1 Export on / off

Activate the **automatic** option to **export** every measurement

2 Destination folder

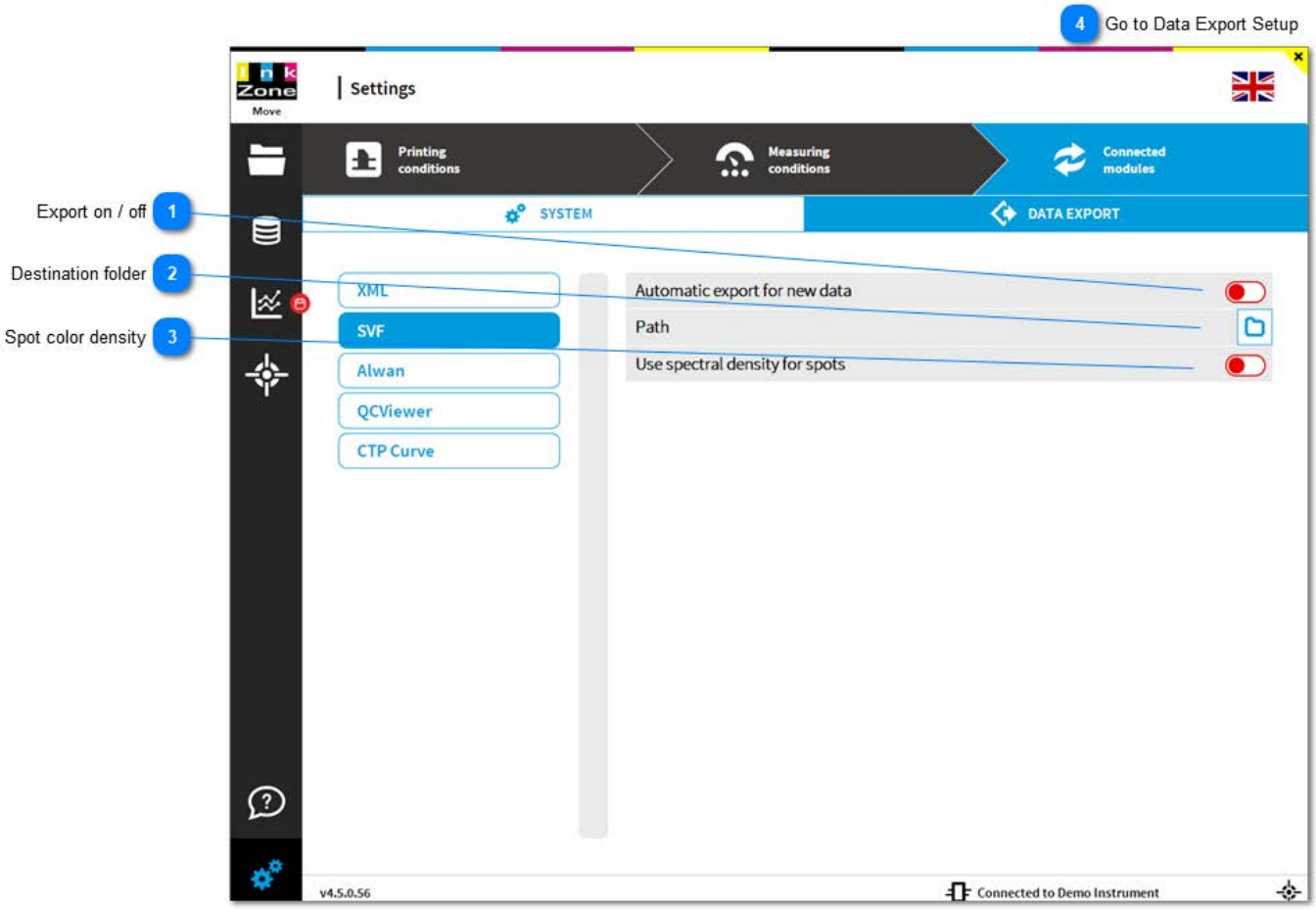
Select the destination folder

3 Go to Data Export Setup

1.2.8. Data Export Setup

1.2.8.3. SVF Export

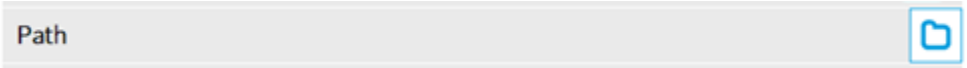
Exports the X-Rite SVF measurement format. It contains color data for every measured patch.



1 Export on / off

Activate the **automatic** option to **export** every measurement

2 Destination folder



Select the destination folder

3 Spot color density

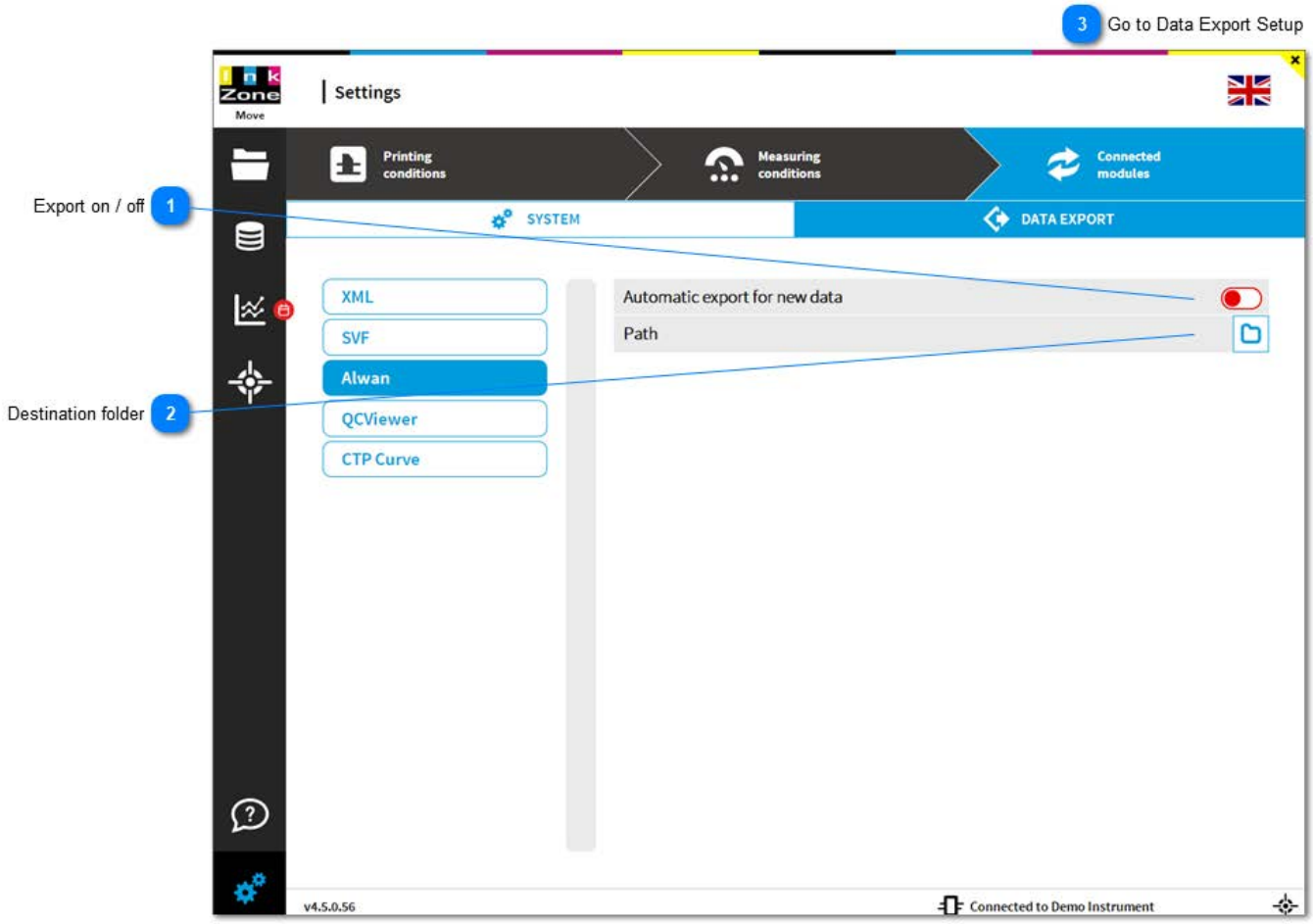
Use spectral density data for spot colors instead of densities from the C,M,Y,K filter set

4 Go to Data Export Setup

1.2.8. Data Export Setup

1.2.8.4. Alwan Export

Exports for the data format for Alwan Print Standardizer. It contains color data for every measured patch.



1 Export on / off

Activate the **automatic** option to **export** every measurement

2 Destination folder

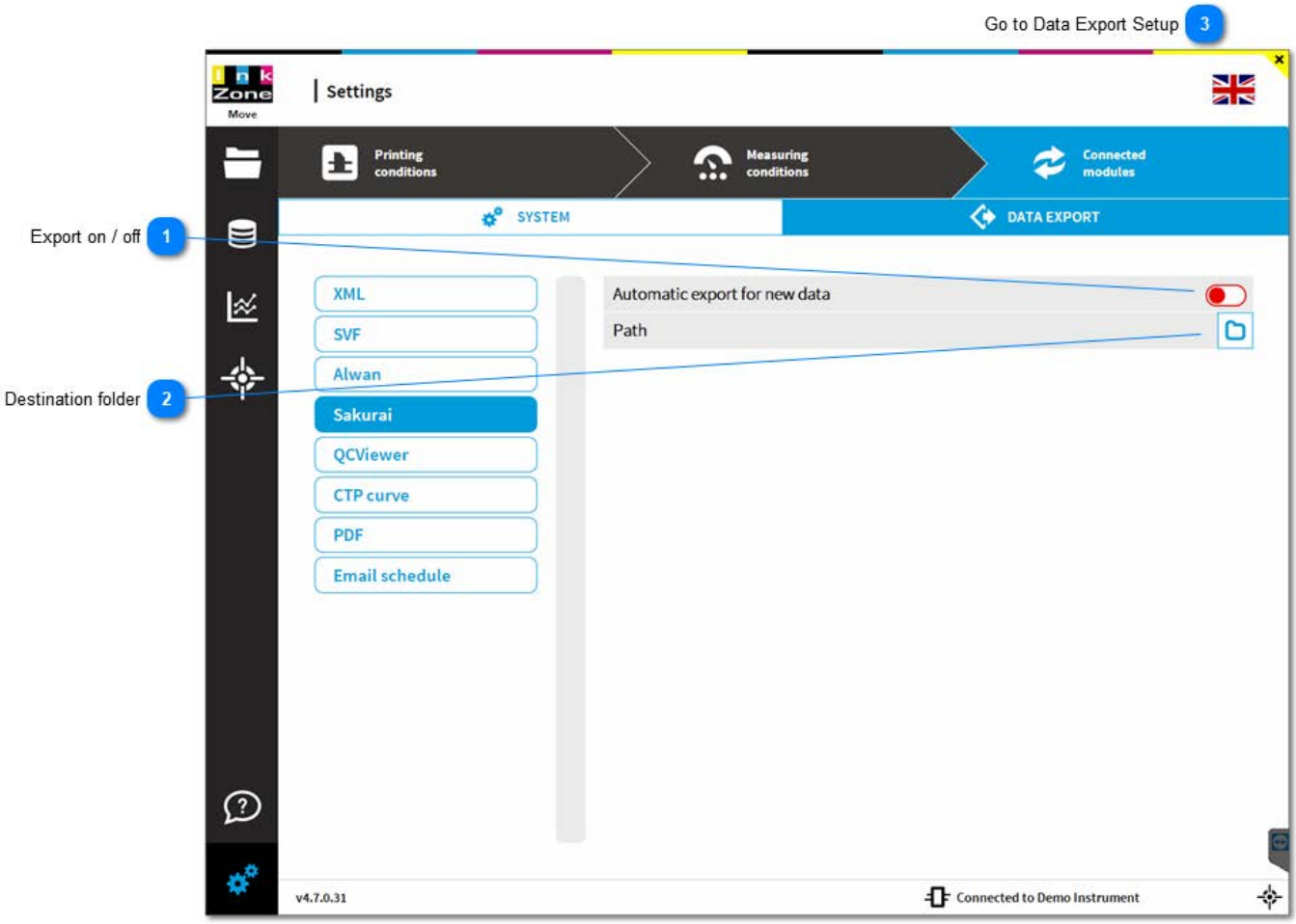
Select the destination folder

3 Go to Data Export Setup

1.2.8. Data Export Setup

1.2.8.5. Sakurai

Exports the Sakurai color control data file. It contains color data for every measured patch.



1 **Export on / off**

Activate the **automatic** option to **export** every measurement

2 **Destination folder**

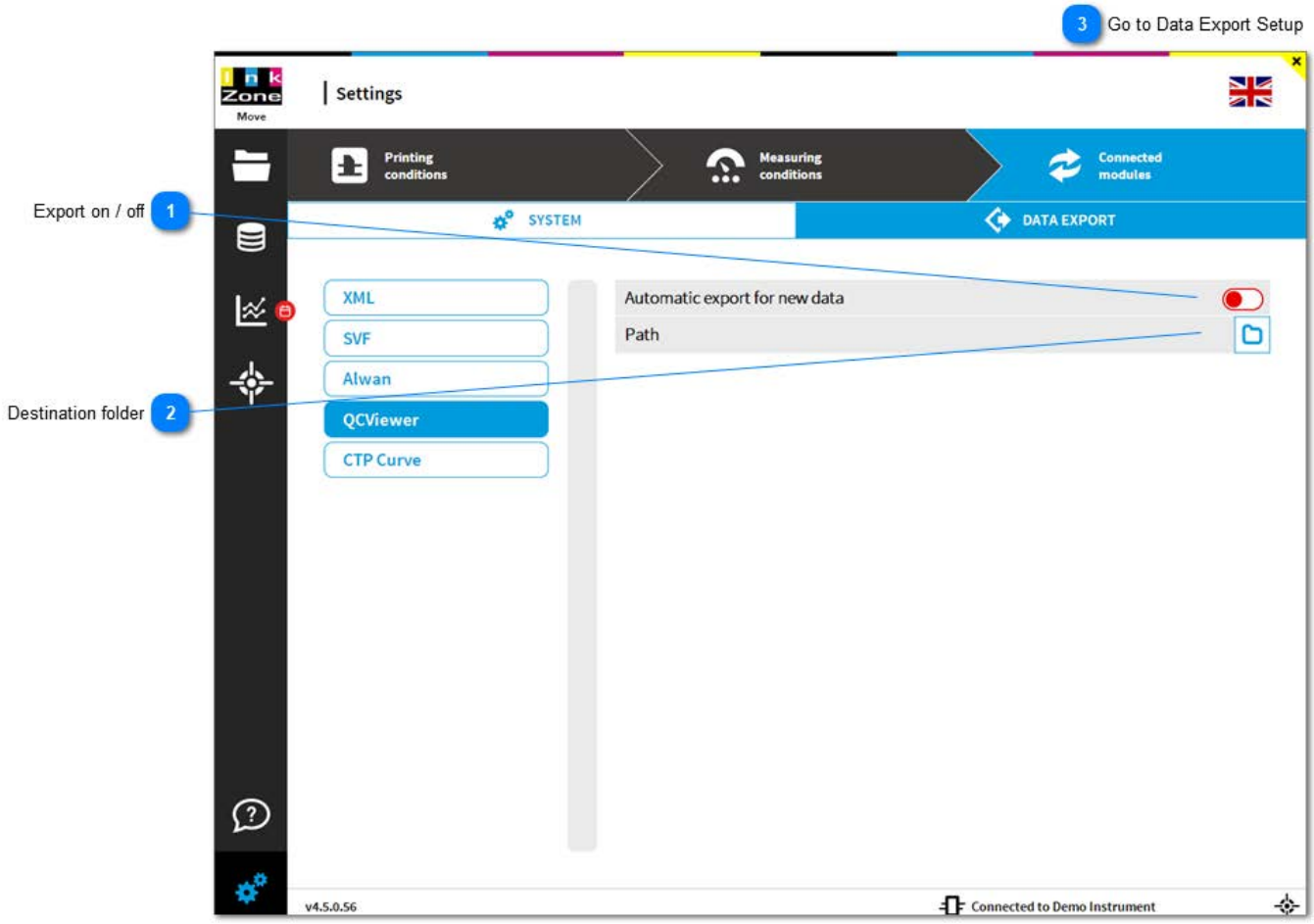
Select the destination folder

3 **Go to Data Export Setup**

1.2.8. Data Export Setup

1.2.8.6. QCViewer Export

Exports the data format for QCViewer.



1 Export on / off

Activate the **automatic** option to **export** every measurement

2 Destination folder

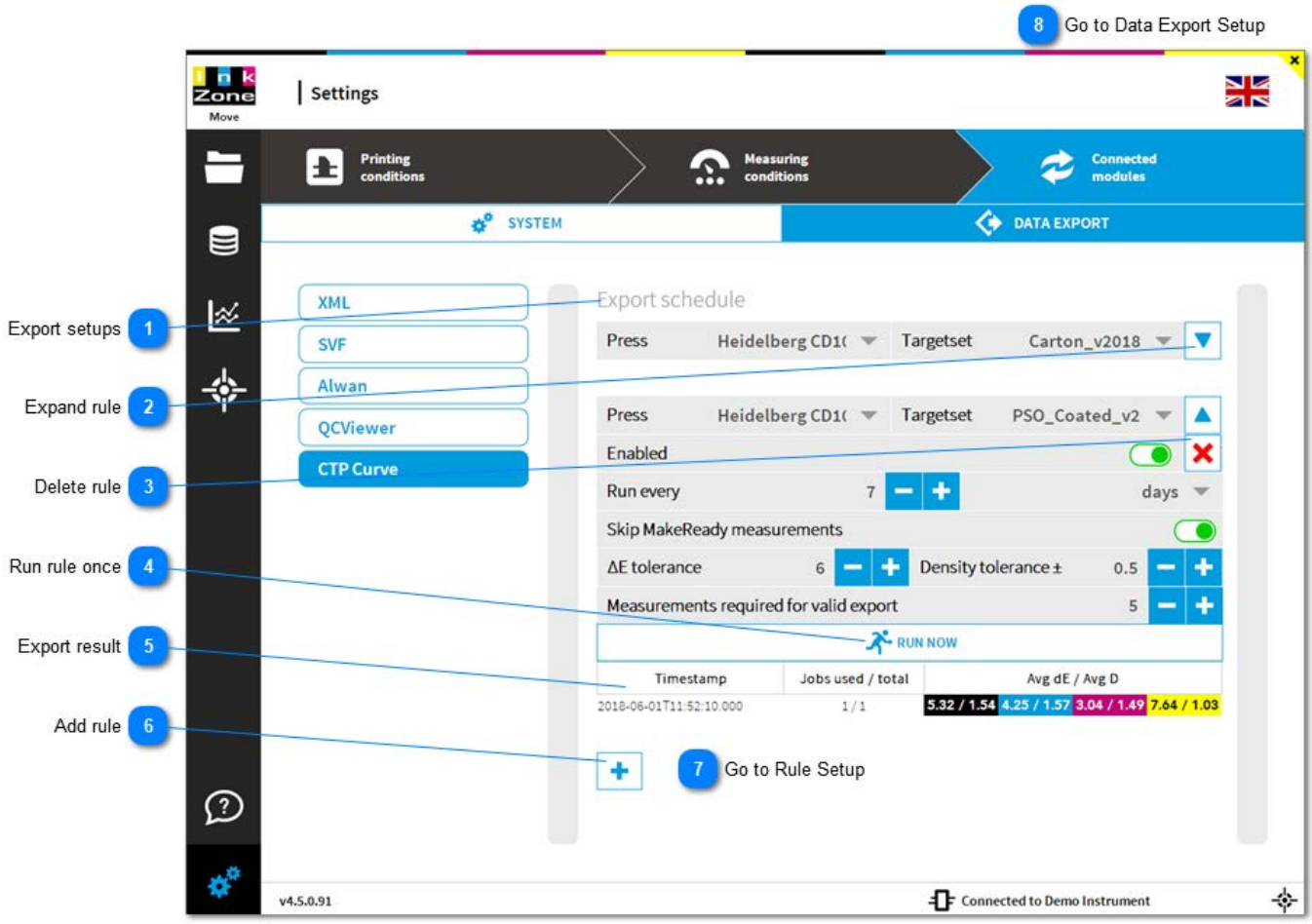
Select the destination folder

3 Go to Data Export Setup

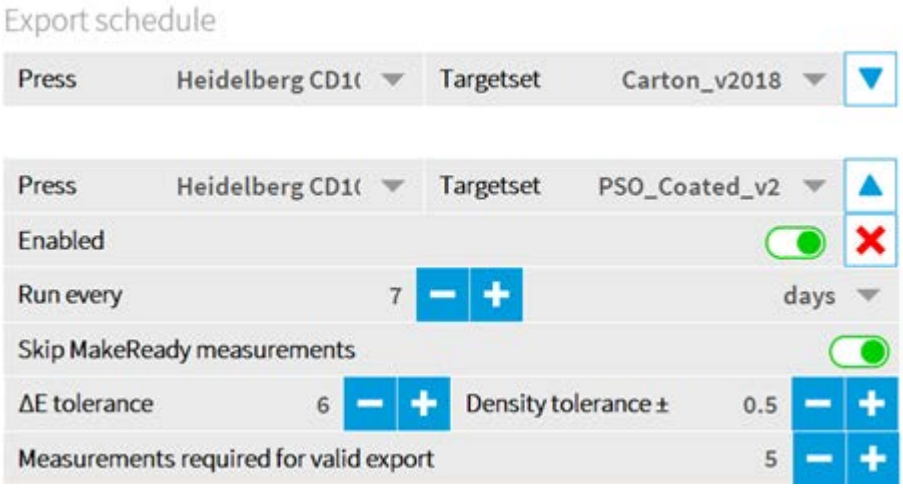
1.2.8. Data Export Setup

1.2.8.7. CTP Curve Optimization

Configure the datasets export for InkZoneTVI. Based on the data InkZoneTVI creates compensation curves for the workflow RIP. The exported data is based on job runs.



1 Export setups



All export rules are listed here. Expand them with the arrow up/down on the right side.
See the rules details here:

2 Expand rule

View rule set for a combination of press and targetset

3 **Delete rule**

Remove the rule

4 **Run rule once**

Use for testing the setup by running the rule once.

5 **Export result**

Timestamp	Jobs used / total	Avg dE / Avg D
2018-06-01T11:52:10.000	1 / 1	5.32 / 1.54 4.25 / 1.57 3.04 / 1.49 7.64 / 1.03

Lists all runs and their result

6 **Add rule**

Add a new rule

7 **Go to Rule Setup**

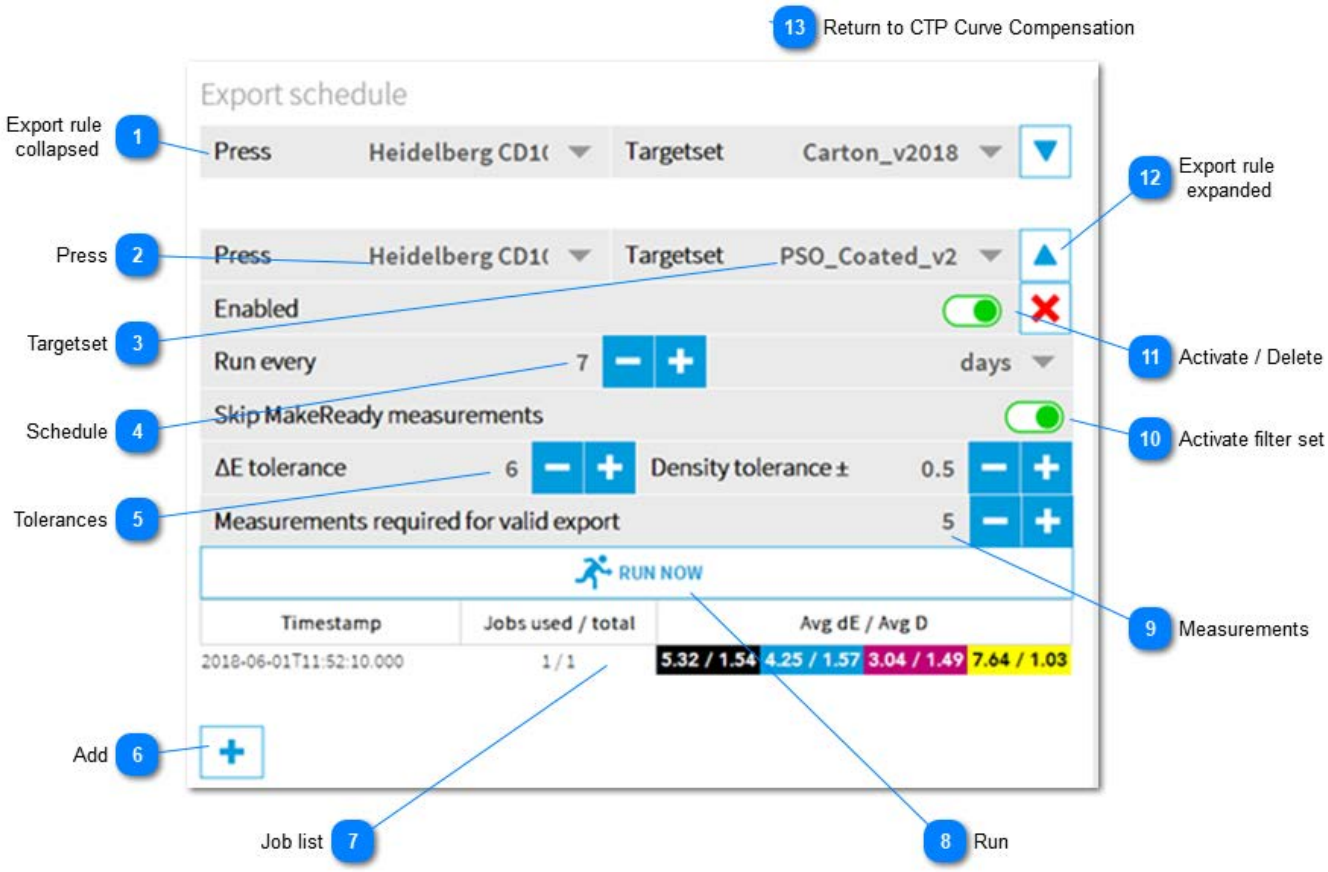
1.2.8.6.1. Export rules IZTVI

8 **Go to Data Export Setup**

1.2.8. Data Export Setup

1.2.8.7.1. Export rules IZTVI

Setup the export rules for CTP plate compensation curves.



1 Export rule collapsed

Export rule with press and targetset name. Expand it to review the setup and see processed jobs with the arrow down button on the right.

2 Press

Select the press from the list box

3 Targetset

Select the targetset from the list box

4 Schedule

The rule is repeated every "number" of "days/weeks"

5 **Tolerances**

Measurement data exceeding DeltaE or density are ignored during export

6 **Add**

Create a new rule

7 **Job list**

Every export is listed here with date, number of used jobs and their DeltaE, Density averages

8 **Run**

Test the setup from here and see the expor data in IZTVI

9 **Measurements**

Number of measurements required to create an export

10 **Activate filter set**

All data is ignored which do not match the setup rules

11 **Activate / Delete**

Enable the rule. Delete it with the red cross on the right

12 **Export rule expanded**

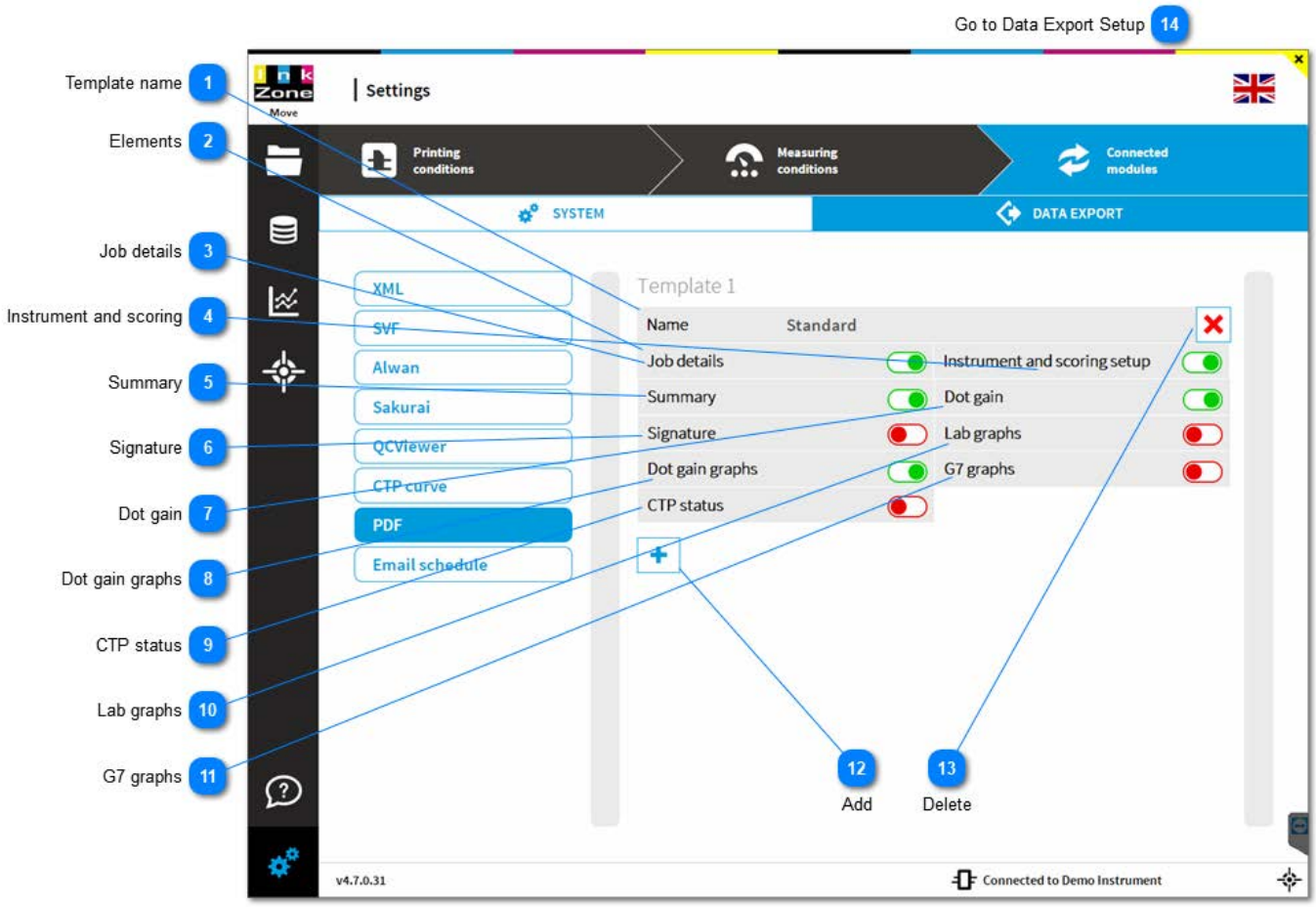
Export rule expanded view

13 **Return to CTP Curve Compensation**

[1.2.8.6. CTP Curve optimization]

1.2.8.8. PDF Report Template

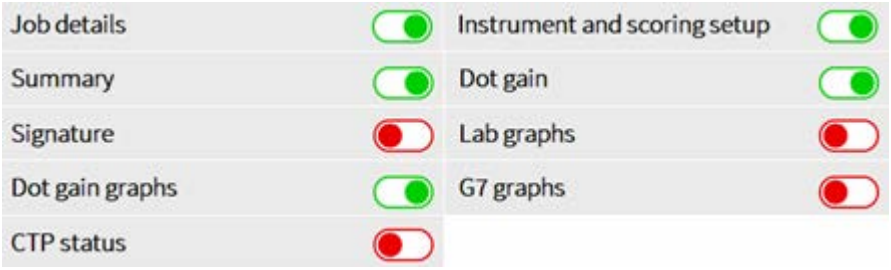
Create templates with print out elements. A template is selected during the PDF report creation. See here: 1.2.8.8. PDF Report Template



1 Template name

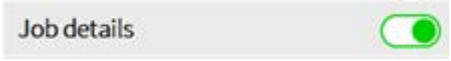
Define a template name. The template can be selected when creating a PDF.

2 Elements



Set the template item to **active** to include it to the PDF report print out.

3 Job details



Template item **Job details**
Adds job information, including the total score, to the PDF report:
Report type / Job name / Nr of measurements / Customer name / Date-Time / Assessment
Sample:

Job details

Report type	Print Production-Report
Job name	AGRI NK - KONGRESBLAD 2017 INSIDE WT84310_3A
Number of measurments	4
Customer	
Date	07/04/2017 12:08 PM
Assessment	Pass, score 87%

4 Instrument and scoring

Instrument and scoring setup

Template item **Instrument and scoring**
Adds scan instrument the print standard targetsset to the PDF report:
Targetset / Scoring set / Instrument backing / Illuminant, observer and measurement condition (Mx)

Sample:

Instrument and scoring setup

Targetset	PSO_P1_B_25-50-75_v2
Scoring	ISO 12647
Backing	Black
Illuminant / Observer / Condition	D50 / O2 /

5 Summary

Summary

Template item **Summary**
Adds a table with color and TVI assessment to the PDF report.
Read columns as:
[1] Print / Target [Lab] : printed value in bold, target values in light color tone
[2] Density : target density
[3] Delta E / Tolerance : deltaE of printed color in bold, accepted tolerance for assessment in light color tone
[4] Delta E score : scores for deltaE with the selected scoring set
[5] Dot gain score : scores for dot gain values with the selected scoring set
[6] Midtone spread: scores for mid-tone spread

Sample:

Summary

	1 Print / Target [L a b]			2 D	3 ΔE / Tol	4 ΔE	5
Black	16.0 / 16.0	0.8 / 0.0	1.9 / 0.0	1.80	5.4 / 5	75%	100%
Cyan	54.4 / 54.0	-35.9 / -36.0	-50.4 / -49.0	1.50	1.7 / 5	100%	100%
Magenta	49.0 / 46.0	74.8 / 72.0	-4.5 / -5.0	1.39	4.5 / 5	100%	87%
Yellow	87.9 / 87.0	-5.8 / -6.0	88.7 / 90.0	1.31	2.8 / 5	100%	100%
Red (M+Y)	48.5 / 46.0	68.5 / 67.0	45.8 / 47.0	1.53	3.9 / 10	100%	6
Green (C+Y)	49.0 / 49.0	-68.7 / -66.0	21.7 / 24.0	1.46	3.8 / 10	100%	
Blue (C+M)	25.3 / 24.0	16.8 / 16.0	-46.8 / -45.0	1.45	2.7 / 10	100%	33%
Paper	93.4 / 93.0	1.1 / 0.0	-2.7 / -3.0	0.00	1.3 / 3	100%	

6 Signature

Template item **Signature**
Adds at the bottom of the PDF report a customer sign-off element.

Sample:

Comments	Signed	
	Place and date	Sign

7 Dot gain

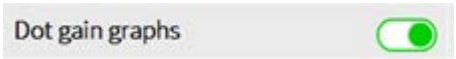
Template item **Dot gain**
Adds dot gain information to the PDF report.

Sample:

Dot gain 96% (obligatory) ✓

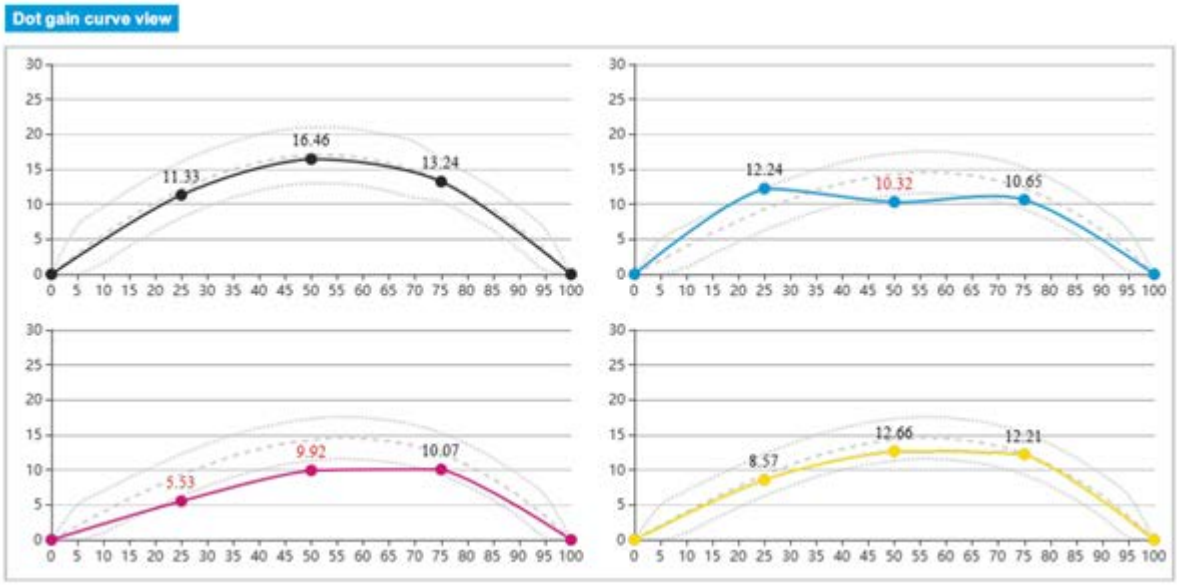
	Target ± Tolerance					
	25%	50%	75%	25%	50%	75%
Black	12.1 ± 4	17 ± 4	13.4 ± 3	✓ 11.33	✓ 16.46	✓ 13.24
Cyan	9.3 ± 3	14.3 ± 3	12.3 ± 3	✓ 12.24	✓ 10.32	✓ 10.65
Magenta	9.3 ± 3	14.3 ± 3	12.3 ± 3	⚠ 5.53	✓ 9.92	✓ 10.07
Yellow	9.3 ± 3	14.3 ± 3	12.3 ± 3	✓ 8.57	✓ 12.66	✓ 12.21

8 Dot gain graphs



Template item **Dot gain graphs**
Adds dot gain graphs to the PDF report.

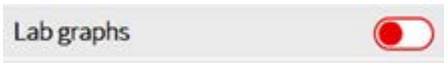
Sample:



9 CTP status

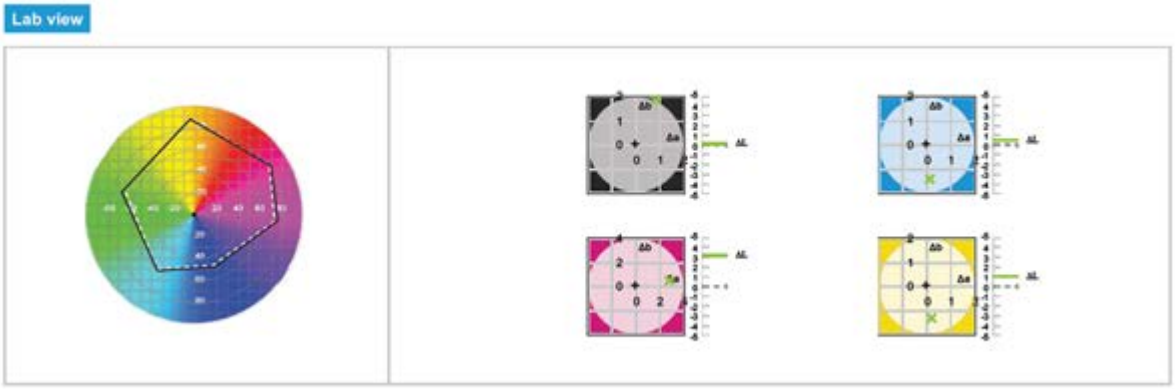
Template item **CTP status**
Adds information about data exported by InkZoneTVI to the PDF report.

10 Lab graphs

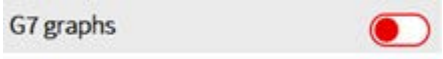


Template item **Lab graphs**
Adds a color gamut circle to the PDF report.

Sample:



11 G7 graphs



Adds a G7 graphs to the PDF report.

12 Add

Creates a PDF template which is available during PDF report creation.

13 **Delete**

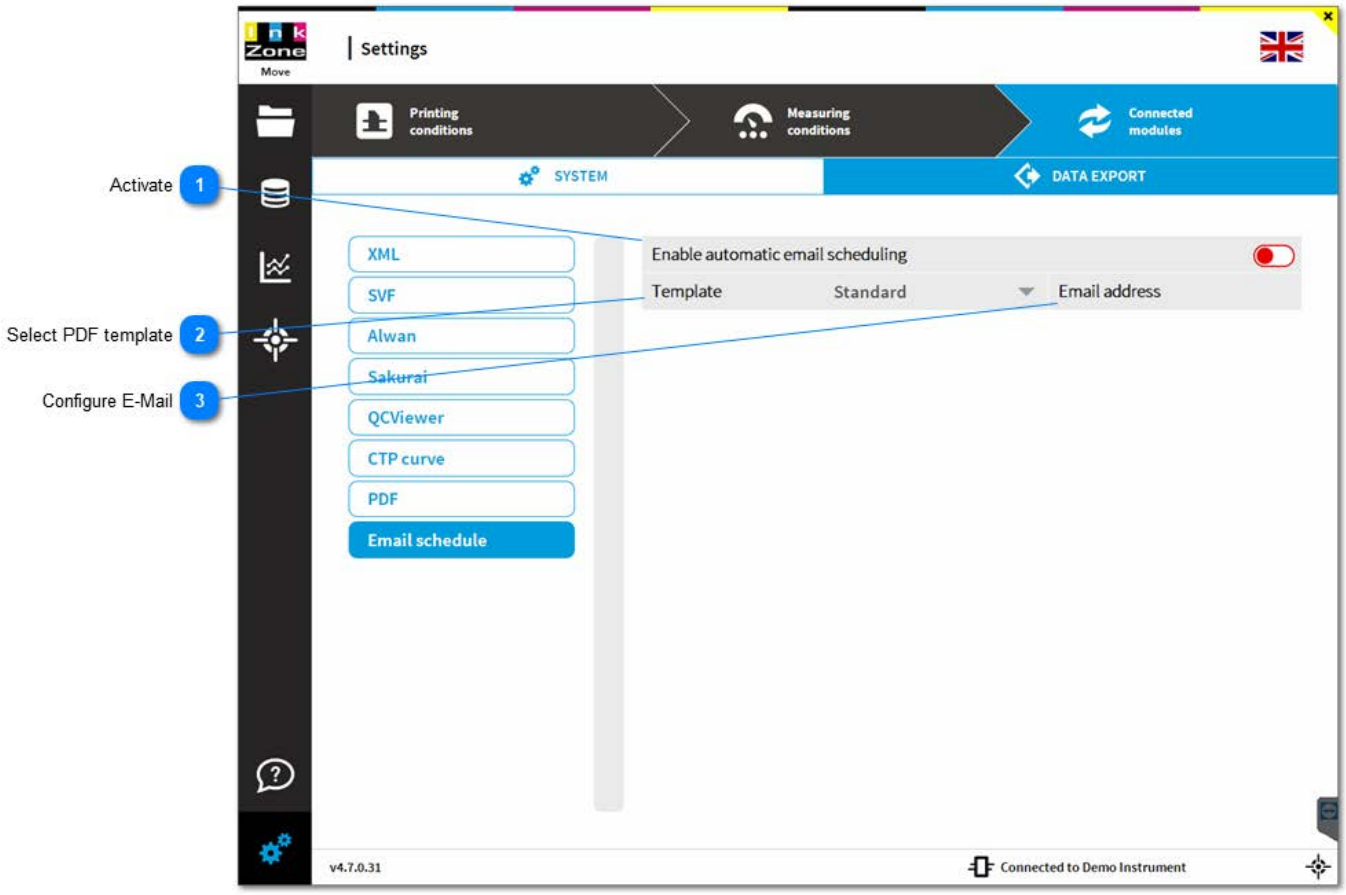
Delete the PDF template.

14 **Go to Data Export Setup**

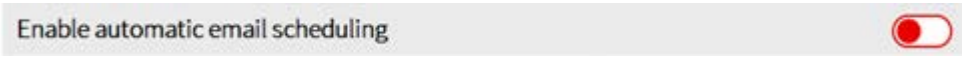
1.2.8. Data Export Setup

1.2.8.9. E-Mail Schedule

Schedule the automatic generation of an E-Mails after the job is finished. The e-mail contains the production report created with the selected PDF template. A job is considered as finish when a new one is created.



1 Activate

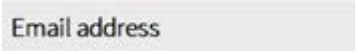


Activate the e-mail scheduling here. After activation, a PDF report is sent to the e-mail address after the job ends.
The end of a job is considered when a new job is created.

2 Select PDF template

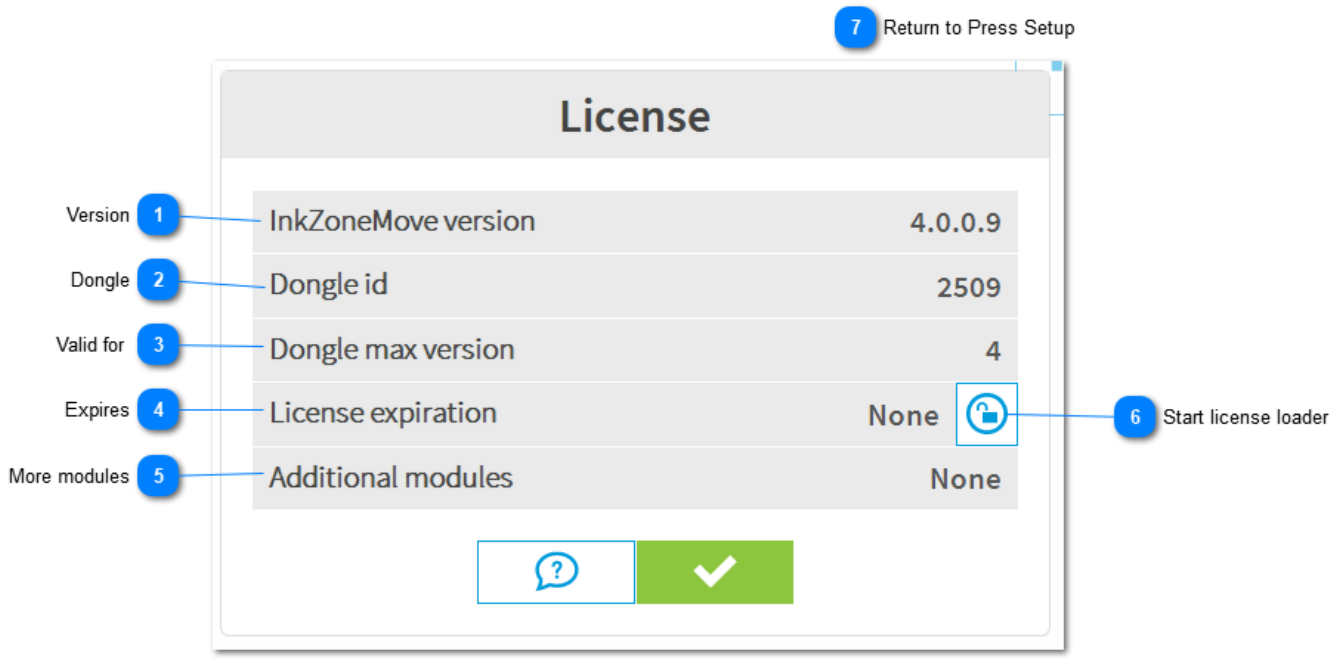
Select a defined template for the PDF creation, see here: 1.2.8.8. PDF Report Template

3 Configure E-Mail



Choose the e-mail recipient.
Setup the mail server settings here: 1.2.7. System Setup

1.2.9. License Information



1 Version

InkZoneMove version

Currently installed software version

2 Dongle

Dongle id

Dongle hardware ID. See also the blue identification label attached to the dongle

3 Valid for

Dongle max version

Dongle is valid for shown version number or lower

4 Expires

License expiration

License expires on the given data

5 More modules

Additional modules

Further licensed modules on this dongle

6 Start license loader

Starts the license loader module. Request a new license with the license loader.

See 1.2.10. License Loader

7 **Return to Press Setup**

1.2.1. Press Setup

1.2.10. License Loader

1 Refresh dongle information

Refresh the shown dongle information

2 Load License

Load license

Load a license file to change the dongle status

3 License request

Request extended license

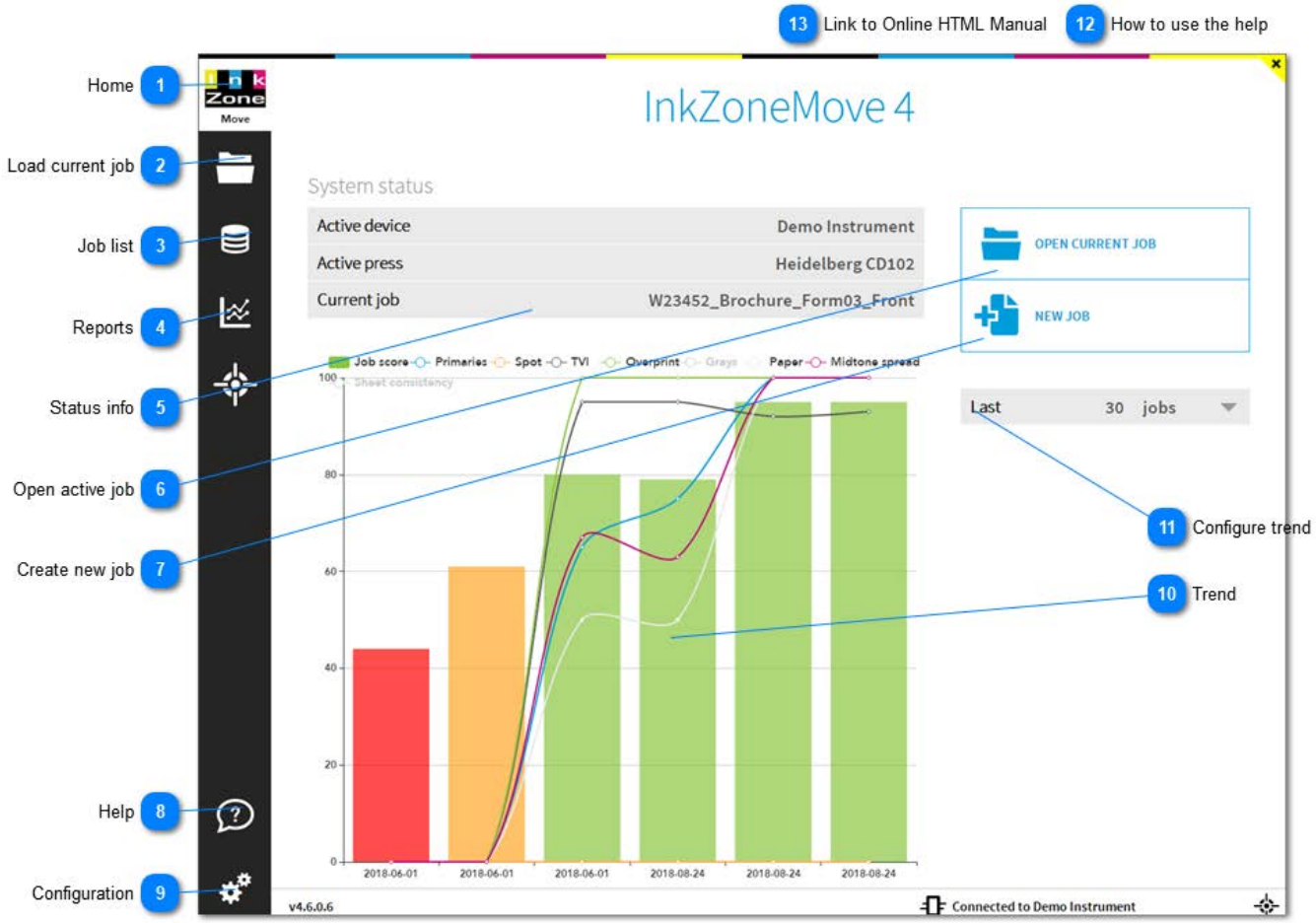
Creates a license request file. Send it to your dealer or distributor

4 Return to License Information

1.2.9. License Information

1.3. Jobs

1.3.1. Home



1 Home

A click on the icon returns you to the home screen (this screen)

2 Load current job

Opens current job in measurement view

3 Job list

Changes to job list

4 Reports

Displays the report from currently active job, see here 1.4.2.3. Report summary

5 Status info

Displays job name and currently active press setup and the selected instrument.

6 Open active job

Opens current job in measurement view

7 Create new job

Start a new job from here

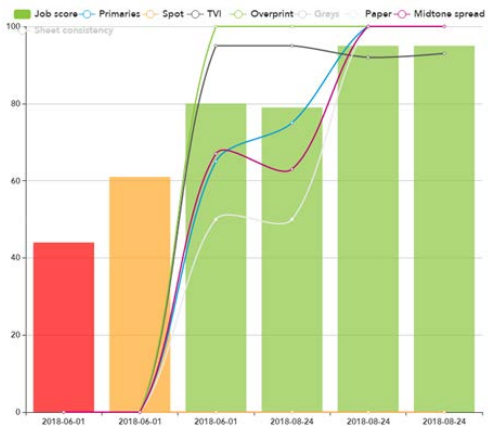
8 Help

Context sensitive help button. Brings up a help page from the currently active IZM4 page

9 Configuration

Change to the software configuration page

10 Trend



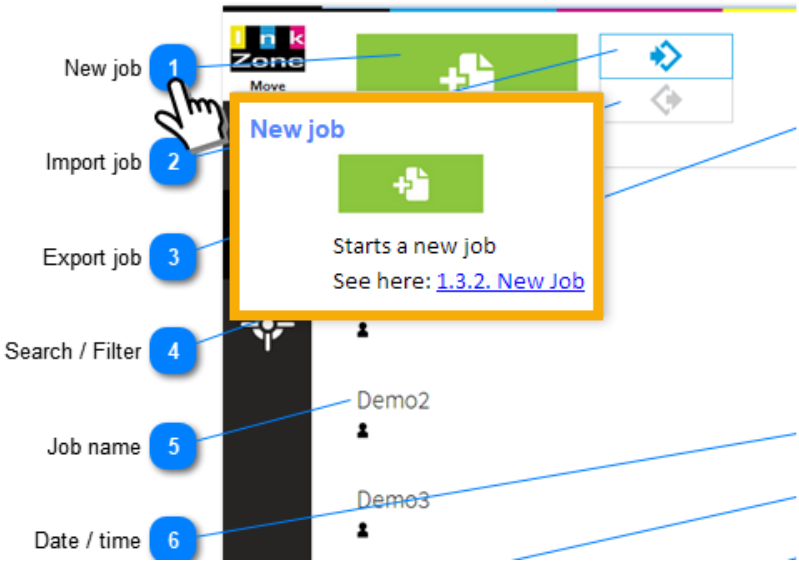
Trend graphs for printed jobs. Vertical bars indicate job score. Trend lines in different color for Primary, Spot Colour, TVI, Overprint, Gray, Paper and Midtone Spread

11 Configure trend

Change trend display from **number of jobs** to **last x days**, modify the number.

12 How to use the help

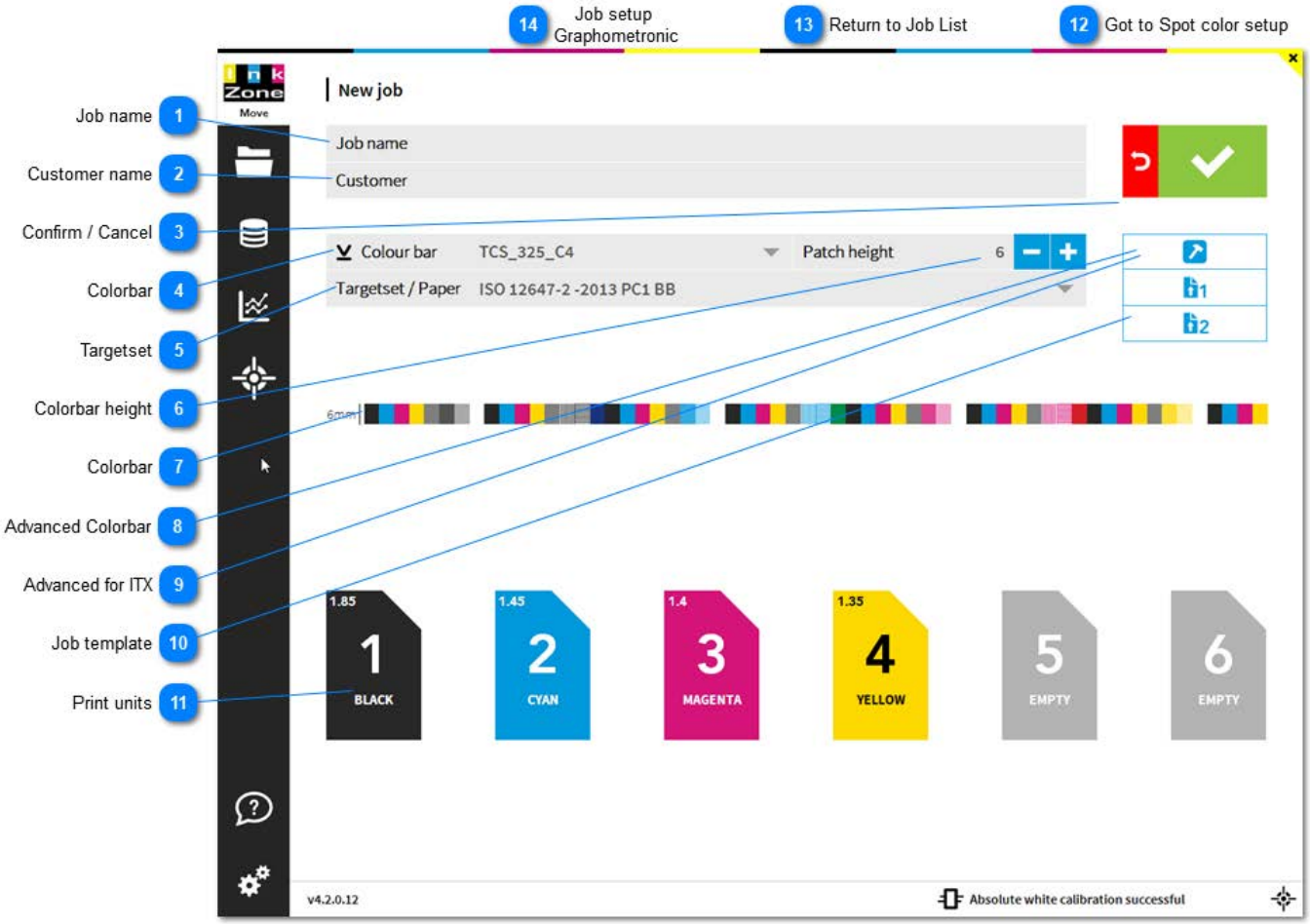
Hover over the number to get extra information or a link to the topic.



13 Link to Online HTML Manual

InkkZoneMove Online User Guide

1.3.2. New Job



1 Job name

Job name

When the job starts from InkZonePerfect the name is automatically set and refers to the CTP / CIP3 job name scheme from the prepress workflow.

2 Customer name

Customer

Add a customer/print buyer name to the job.
IZReport can send PDF reports to customers. For this scenario, it is Important that the costumer name set here matches the one in the e-mail setup, see here: 1.2.7. System Setup

3 Confirm / Cancel

Confirm or cancel job setup

4 Colorbar

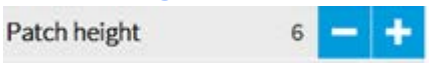
Colorbar for the front side print.
When printing with perfector, the back side colorbar needs to be set too.

Define spot color patches in the colorbar, see here: 1.3.2.2. Spot color job

5 Targetset

Print targetset.
When job starts from InkZonePerfect the targetset is set automatically .
How to link the ink-preset calibration curve from InkZonePerfect
to a targetset see here: 1.2.3.2. New Targetset

6 Colorbar height



When using an IntelliTrax, the colorbar height needs to be set here.

7 Colorbar

Preview of the selected colorbar

8 Advanced Colorbar

Align the measurement data related to the ink-keys either centred (standard) or shifted.
See details here: Shifted ink-key alignment

9 Advanced for ITX

In advanced setup set the colorbar position with XY coordinate values when using an IntelliTrax scanner.
Go to Intellitrax XY colorbar setup: 1.3.2.2. Advanced Job Settings

10 Job template

Select a predefined template job. A template job has a defined targetset, colorbar, color sequence and machine type.
See here how to set a template job: 1.1.1.1. Job-Setup View

11 Print units

Print unit with target density and its assigned color. Click on the unit to add or change a color.

12 Got to Spot color setup

1.3.2.1. Spot color setup

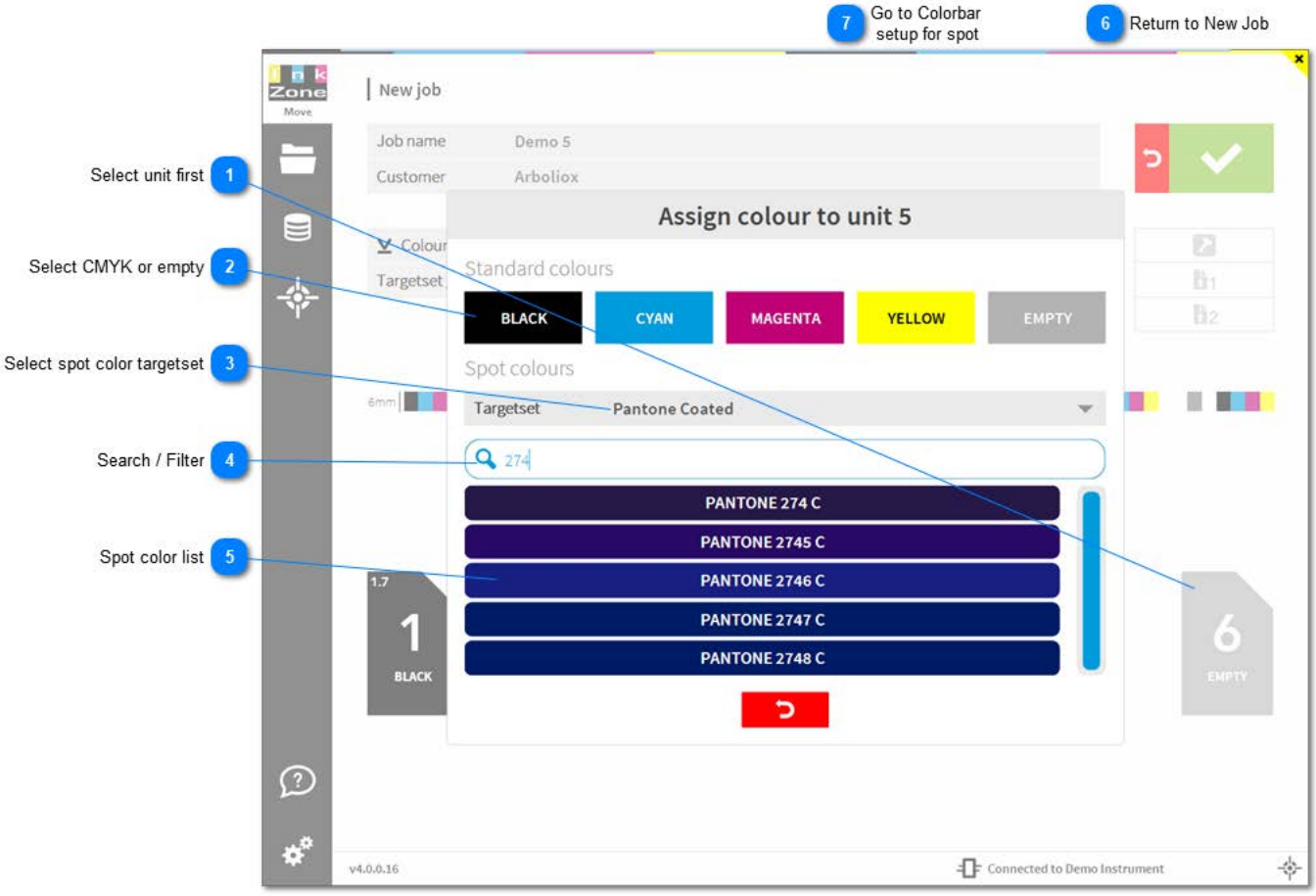
13 Return to Job List

1.3.3. Job List

14 Job setup Graphometronic

See here: 1.3.2.3. Graphometronic Job Setup

1.3.2.1. Spot Color Setup



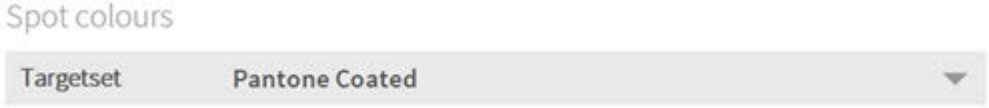
1 Select unit first

Click on the unit to open the assignment dialog

2 Select CMYK or empty

Select from here one of the process colors **CMYK** or set the units as **empty**, none printing

3 Select spot color targetset

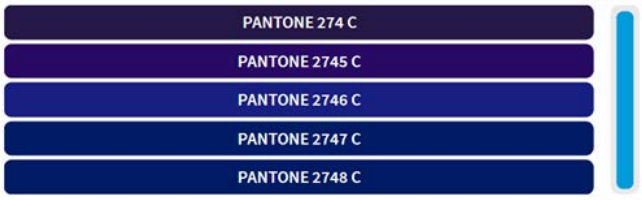


When using a spot color then select the target set first

4 Search / Filter

Add a search string to filter the selection

5 Spot color list



Select the color from the filtered spot color list

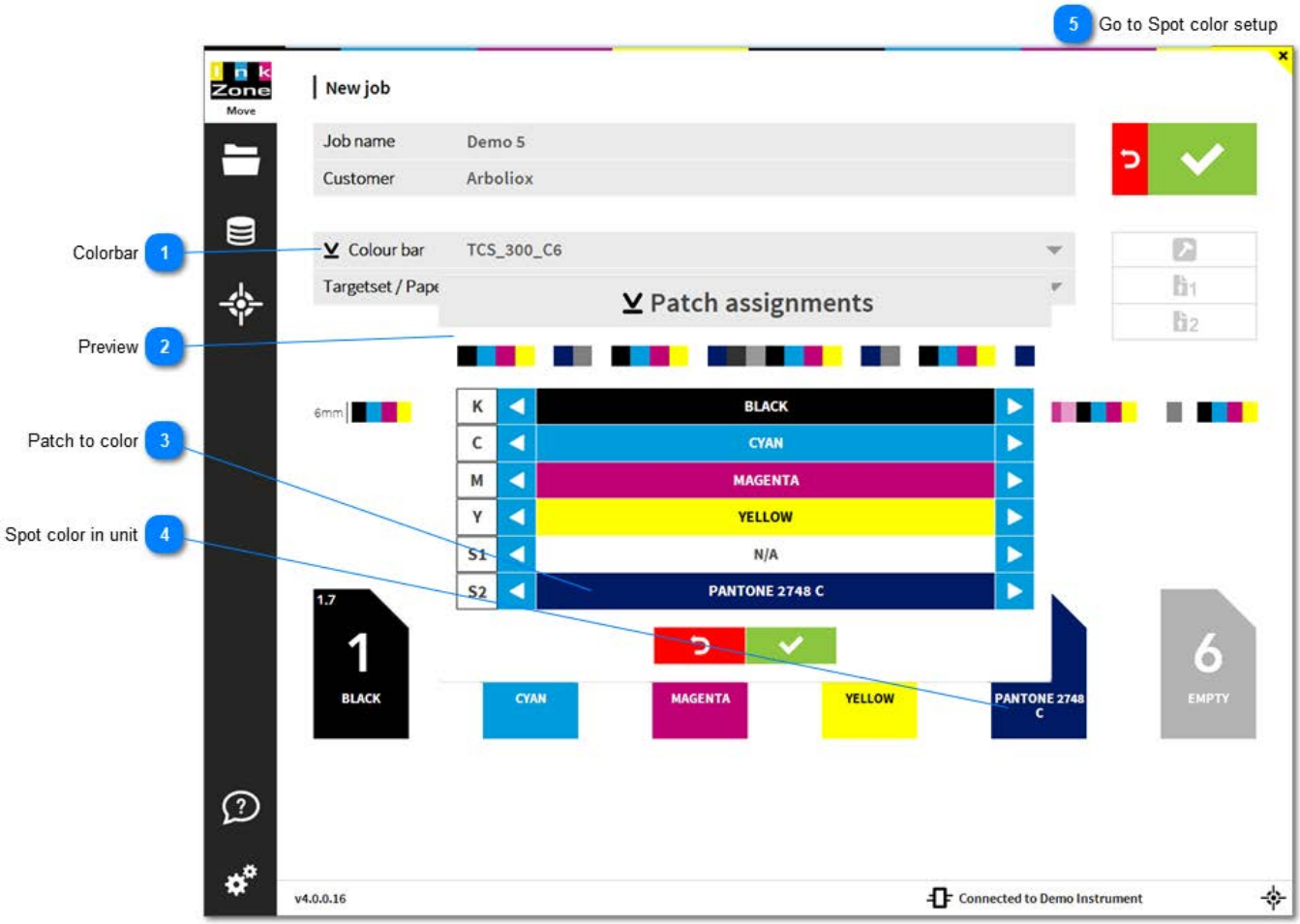
6 Return to New Job

1.3.2. New Job

7 Go to Colorbar setup for spot

1.3.2.1.1. Colorbar setup for spot

1.3.2.1.1. Colorbar Setup for Spots



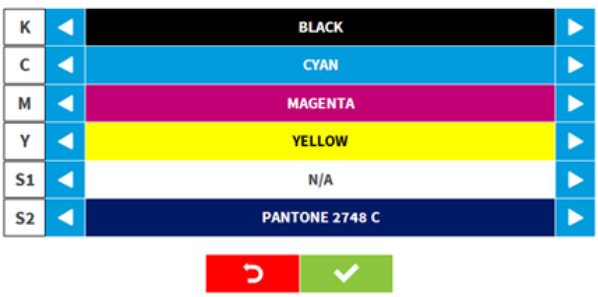
1 Colorbar

Select an appropriate colorbar for a spot color job. In the sample a 6 patch colorbar is selected.

2 Preview

Preview the patch to color assignment.

3 Patch to color



Assign to each patch a printing color.
In this sample patch K prints Black etc. and spot color patch S2 prints Pantone 2748 C.

Use the arrow buttons left and right to change the assignment.

4 **Spot color in unit**

Unit 5 prints spot color Pantone 2748 C. See

5 **Go to Spot color setup**

1.3.2.1. Spot color setup

1.3.2.2. Advanced Job Settings IntelliTrax

This screens is only available for IntelliTrax scanners.

1 Activate XY colorbar setup

Enable the XY setup for IntelliTrax

2 XY values

The XY values are explained here 1.1.1.2.1. IntelliTrax XY coordinates

3 Previous XY values

Reuse a XY setup from a previously printed job.

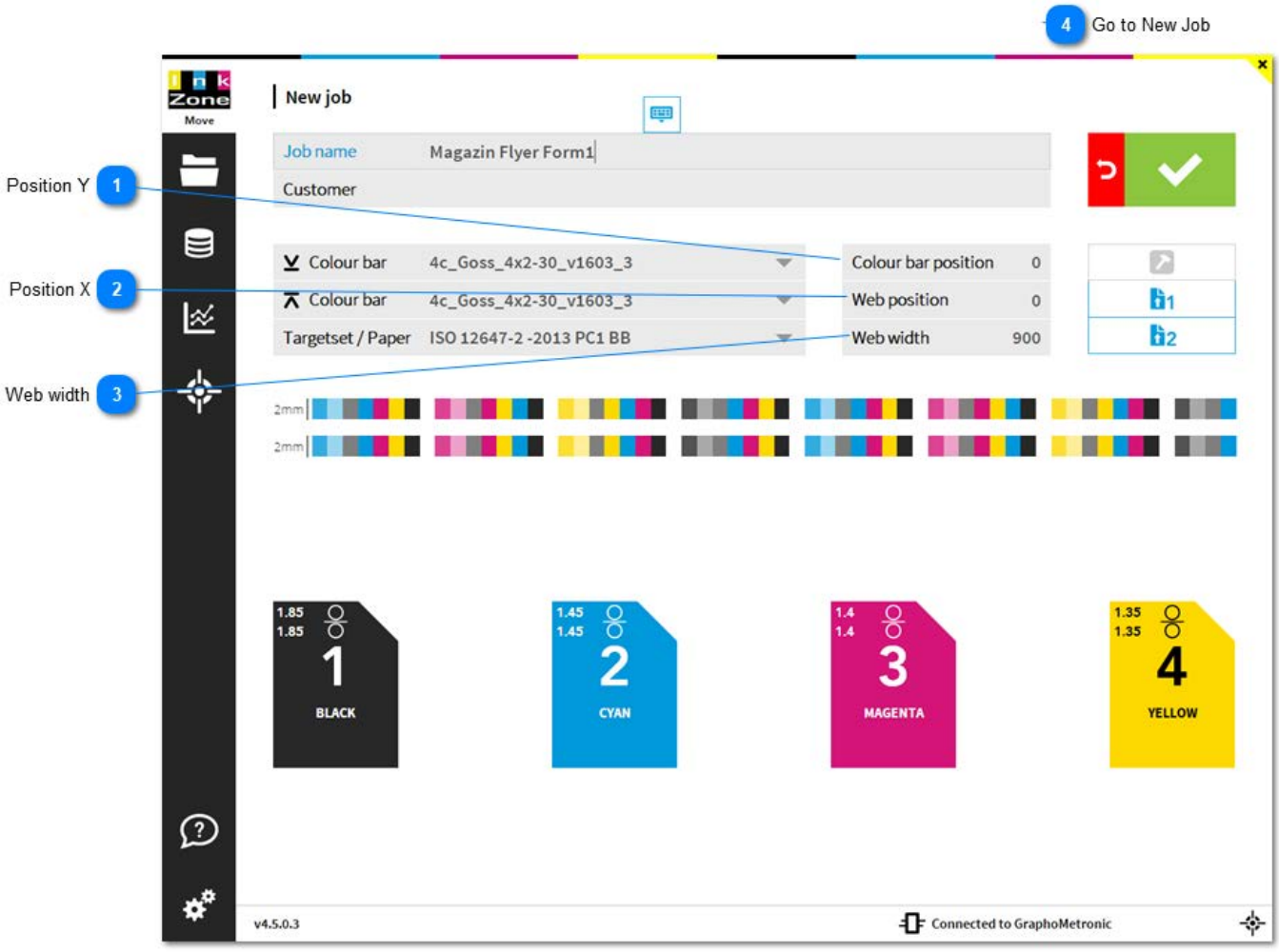
4 XY Sample

See detailed sample here 1.1.1.2.2. IntelliTrax XY sample

5 Return to New Job

1.3.2. New Job

1.3.2.3. Graphometronic Job Setup



1 Position Y

Colour bar position 0

Colorbar circumference position, as an offset to the standard calibrated Y position

2 Position X

Web position 0

Position across the web, roller. Use this parameter when the web is not centered in the press (e.g. shifted by 1 key) or the colorbar itself is not centered.

3 Web width

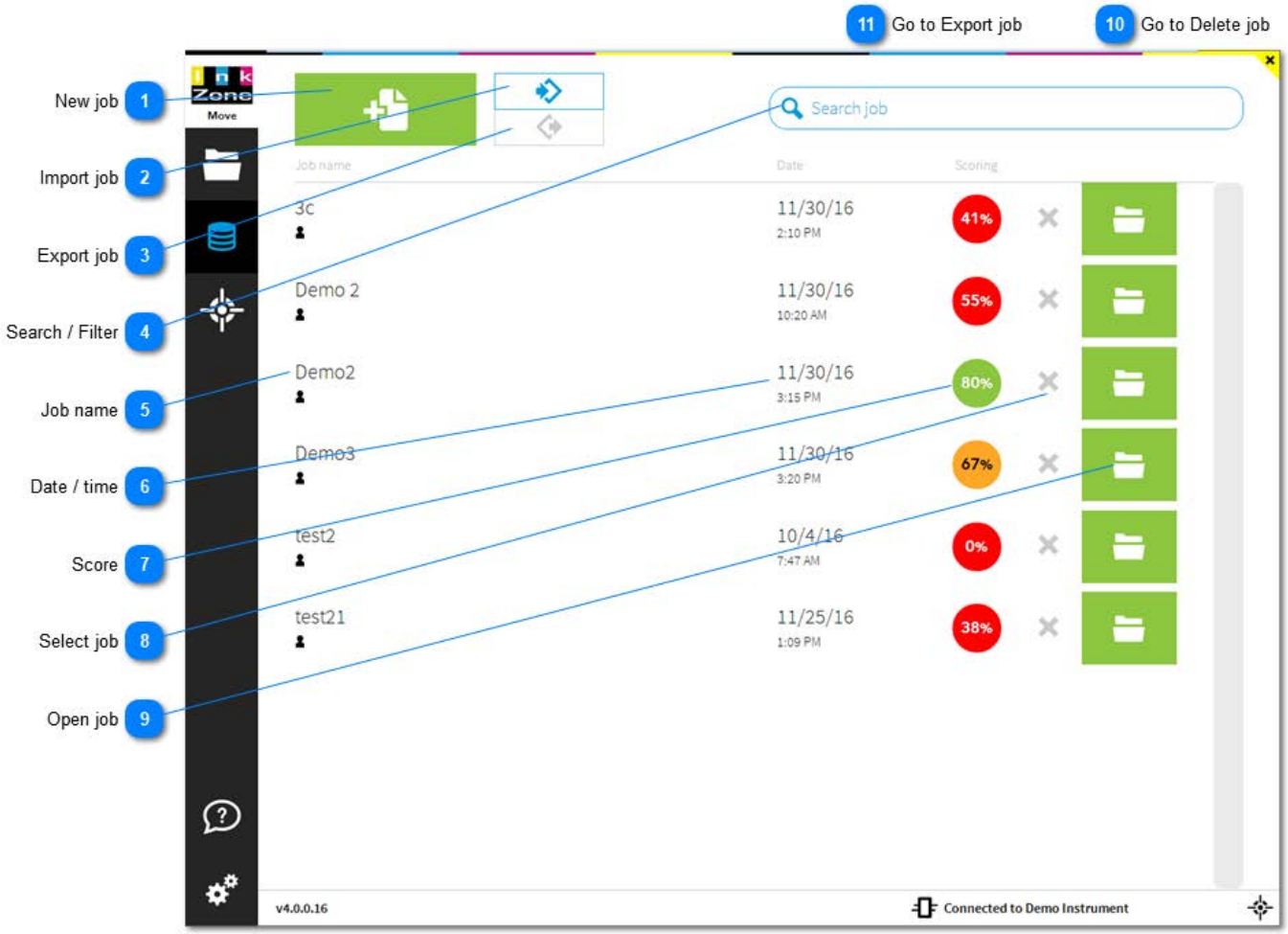
Web width 900

Web width

4 Go to New Job

1.3.2. New Job

1.3.3. Job List



1 New job

Starts a new job
See here: 1.3.2. New Job

2 Import job

Import job/s

3 Export job

To export a job, select first the cross icon left of the open

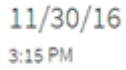
4 Search / Filter

Enter a part of the job name to filter the job list

5 Job name

Job name with date and job score

6 Date / time



Printing time and date

7 Score

Production score

8 Select job

Select a job there and then export or delete it.
See here: 1.3.3.1. Export Job and 1.3.3.2. Delete Job

9 Open job

Open the job in measurement view

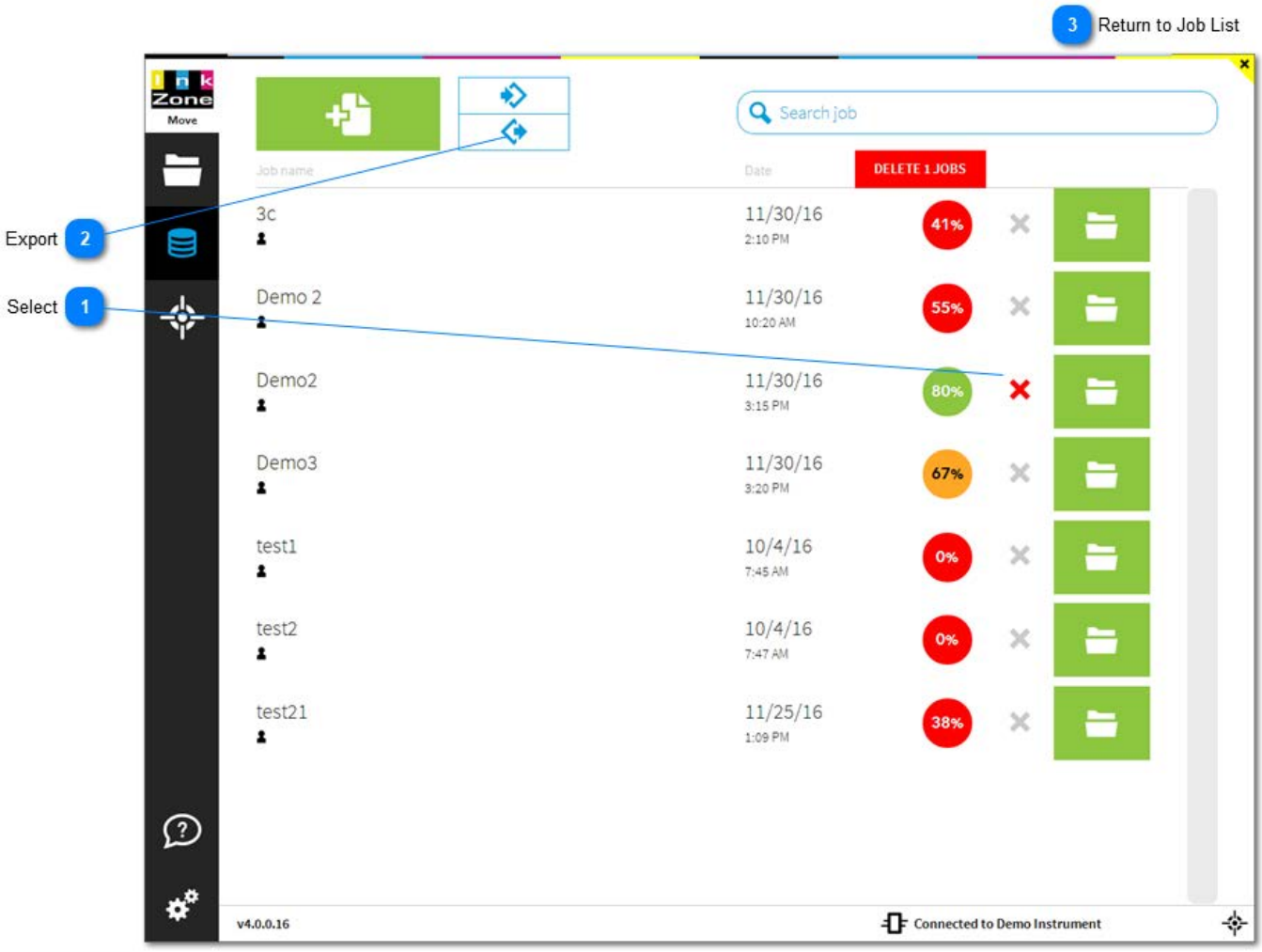
10 Go to Delete job

1.3.3.2. Delete Job

11 Go to Export job

1.3.3.2. Delete Job

1.3.3.1. Export Job



1 Select

First, select the job by clicking on the grey cross. When selected it turns red.

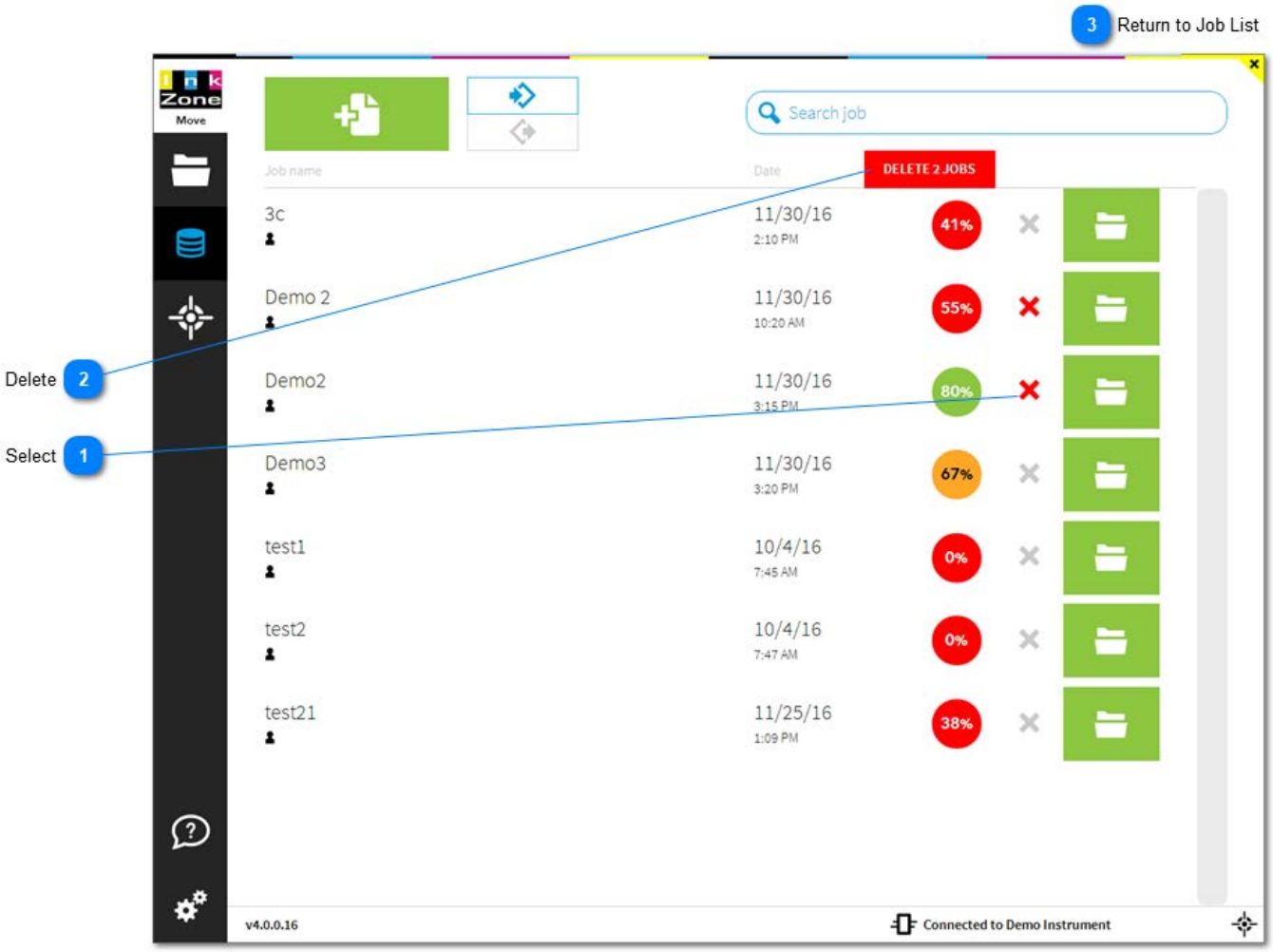
2 Export

Second, select the export button and choose an export path

3 Return to Job List

1.3.3. Job List

1.3.3.2. Delete Job



1 Select

First, select the job by clicking on the grey cross. When selected it turns red.

2 Delete

Second, press the delete butoton and confirm the action.

3 Return to Job List

1.3.3. Job List

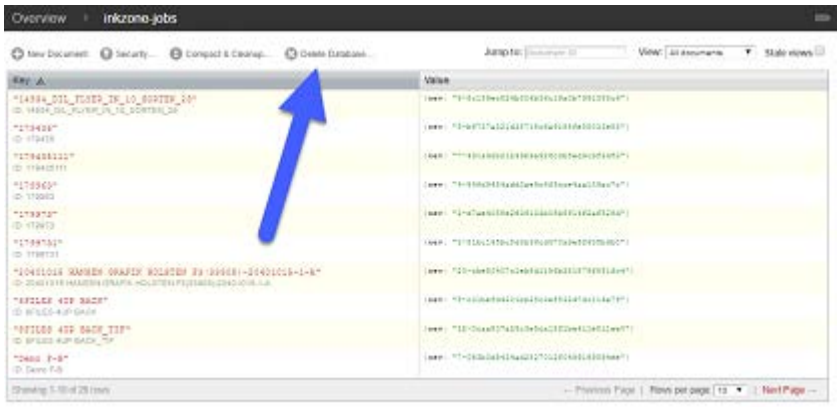
1.3.3.3. Export Job Database

The following procedure describes how to migrate the InkZoneMove job database to another computer:

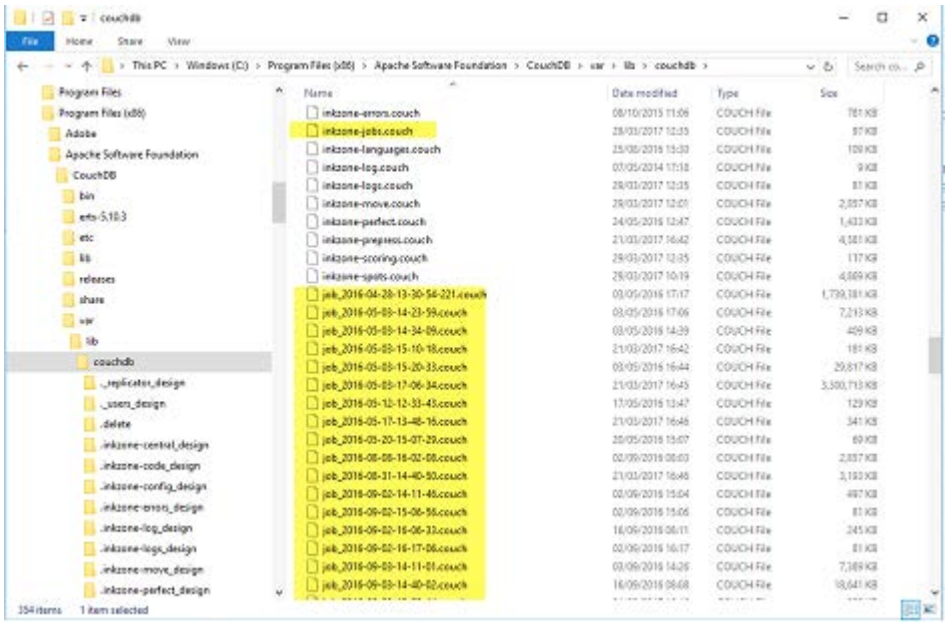
IZM4 job database migration – move the installation from PC A (source) to PC B (target)

1. Install IZM4 on the target PC

2. On the target system, open http://localhost:5984/_utils/database.html?inkzone-jobs and select ***Delete Database*** from top commands
User name: inkzone
Password: testing



3. On the source system, go to
"C:\Program Files (x86)\Apache Software Foundation\CouchDB\var\lib\couchdb" (can be also "C:\CouchDB\var\lib\couchdb") and copy the file ***inkzone-jobs.couch***
Then, copy all job files starting with ***job_*.couch***



4. On the target system, open the CouchDB storage folder (same as from point 2) and paste the inkzone-jobs.couch and the job_*.couch files.

5. Start InkZoneMove. All jobs should be fully functional now

1.4. IZReport

InkZone Report is an add-on for InkZoneMove to verify print jobs against a given print standard, print reference. For none InkZoneMove user the application can be configured to process X-Rite SVF data or Scan.XML JDF data.

1.4.1. Setup

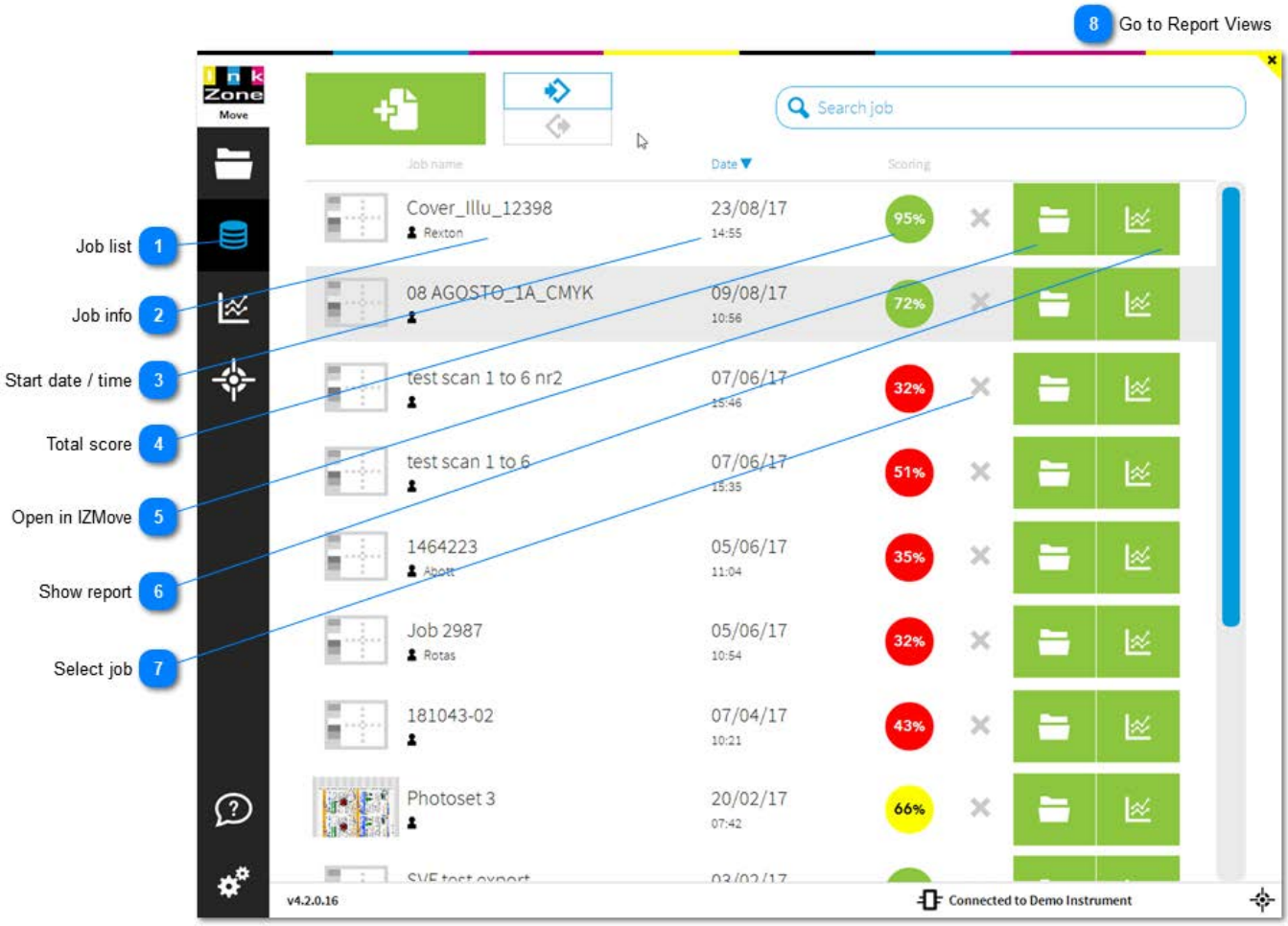
InkZone Report uses target and scoring sets for the color assessments. For the report configuration it's important to understand targetset: 1.2.3.3. Edit Targetset and scoring setup: 1.2.5. Scoring Setup

1.4.2. Views

InkZoneReport has different views on job measurement data.

Go to:

1.4.2.1. Job List



1 Job list

Access job list

2 Job info

Cover_Illu_12398

Rexton

Job and customer name

3 Start date / time

23/08/17

14:55

Job's start date and time

4 Total score

Total job score calculated from target and scoring set

5 Open in IZMove

Open job in InkZoneMove measurement view (only when IZMove is available)

6 Show report

Open report summary

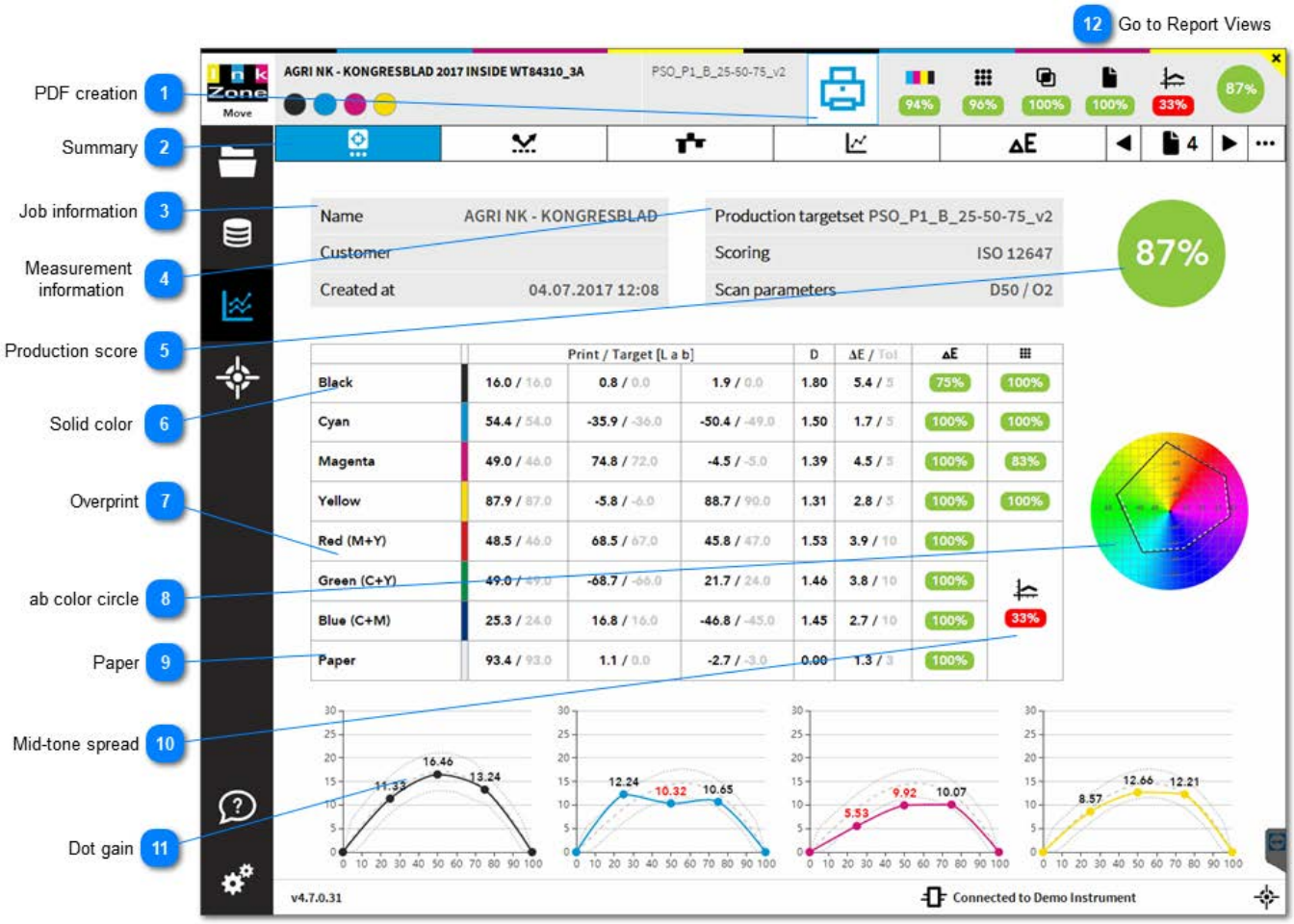
7 Select job

Select a job for export or removal.

8 Go to Report Views

1.4.2. Views

1.4.2.2. Production Report Summary



1 PDF creation

Create a PDF report printout. Tab on the icon and select the report type. Details see here:
1.4.2.9. PDF output

2 Summary

Access report summary

3 Job information

Name	AGRI NK - KONGRESBLAD
Customer	
Created at	04.07.2017 12:08

Displays job and customer name with start date and time.

4 Measurement information

Production targetset PSO_P1_B_25-50-75_v2	
Scoring	ISO 12647
Scan parameters	D50 / O2

Displays time for MakeReady and Production and job's final measurement which marks job end.

5 Production score

Total score on job production according to its target and scoring set.

6 Solid color

Read columns like:

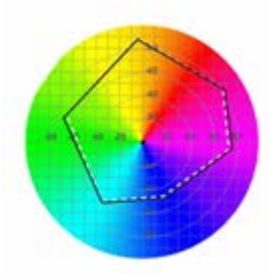
[1] Print / Target [Lab] : printed value in bold, target values in light color tone
[2] Density : target density
[3] Delta E / Tolerance : deltaE of printed color in bold, accepted tolerance for assessment in light color tone
[4] Delta E score : scores for deltaE with the selected scoring set
[5] Dot gain score : scores for dot gain values with the selected scoring set
[6] Midtone spread: scores for mid-tone spread

7 Overprint

Red (M+Y)	48.5 / 46.0	68.5 / 67.0	45.8 / 47.0	1.53	3.9 / 10	100%
Green (C+Y)	49.0 / 49.0	-68.7 / -66.0	21.7 / 24.0	1.46	3.8 / 10	100%
Blue (C+M)	25.3 / 24.0	16.8 / 16.0	-46.8 / -45.0	1.45	2.7 / 10	100%

Score on overprints (secondary colours)

8 ab color circle



Colour gamut with CMY and RGB coordinates.

9 Paper

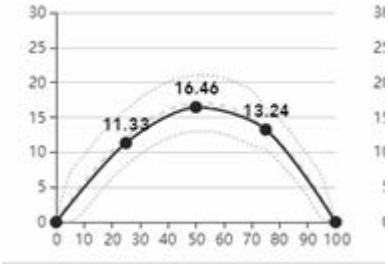
Paper	93.4 / 93.0	1.1 / 0.0	-2.7 / -3.0	0.00	1.3 / 3	100%

Score on paper (DeltaE on Lab)

10 Mid-tone spread

Score on CMY mid-tone spread

11 Dot gain

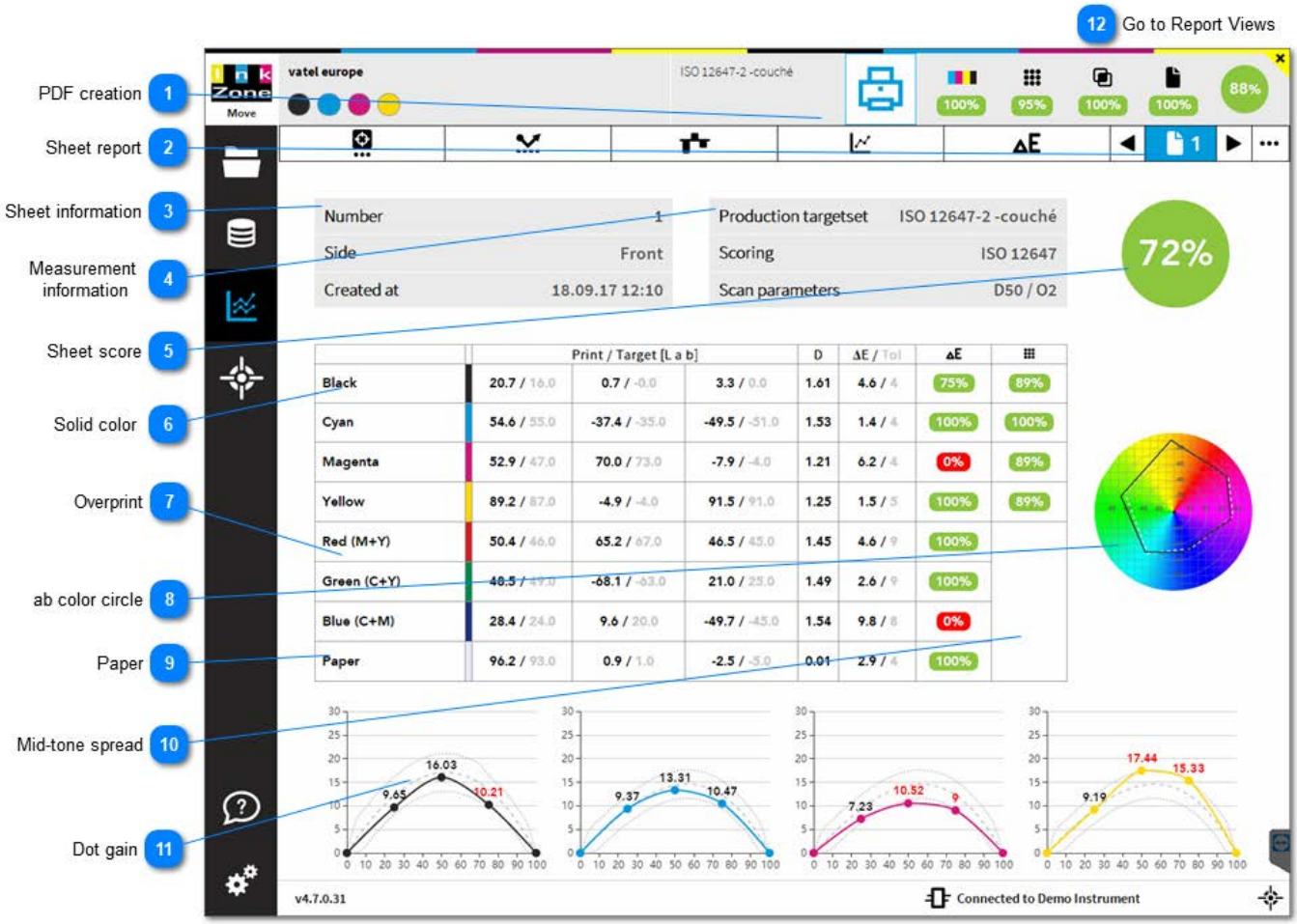


Tone value increase cure with print result and tolerance area.

12 Go to Report Views

1.4.2. Views

1.4.2.3. Sheet Report Summary



1 PDF creation

Create a PDF report printout. Tab on the icon and select the report type. Details see here:
1.4.2.9. PDF output

2 Sheet report

Access report summary

3 Sheet information

Number	1
Side	Front
Created at	18.09.17 12:10

Displays job and customer name with start date and time.

4 Measurement information

Production targetset	ISO 12647-2 -couché
Scoring	ISO 12647
Scan parameters	D50 / O2

Displays time for MakeReady and Production and job's final measurement which marks job end.

5 Sheet score

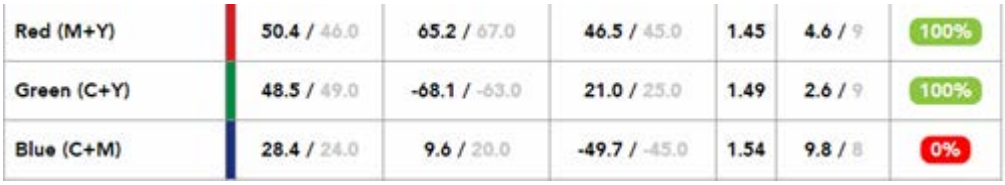
Total score on job production according to its target and scoring set.

6 Solid color

Read columns like:

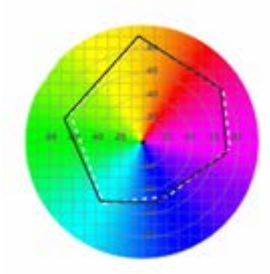
[1] Print / Target [Lab] : printed value in bold, target values in light color tone
[2] Density : target density
[3] Delta E / Tolerance : deltaE of printed color in bold, accepted tolerance for assessment in light color tone
[4] Delta E score : scores for deltaE with the selected scoring set
[5] Dot gain score : scores for dot gain values with the selected scoring set
[6] Midtone spread: scores for mid-tone spread

7 Overprint



Score on overprints (secondary colours)

8 ab color circle



Colour gamut with CMY and RGB coordinates.

9 Paper

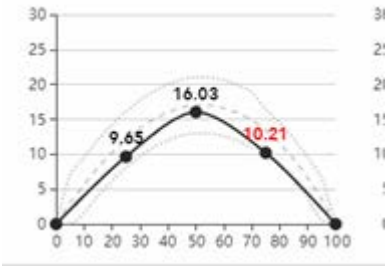
Paper	96.2 / 93.0	0.9 / 1.0	-2.5 / -5.0	0.01	2.9 / 4	100%

Score on paper (DeltaE on Lab)

10 Mid-tone spread

Score on CMY mid-tone spread

11 Dot gain

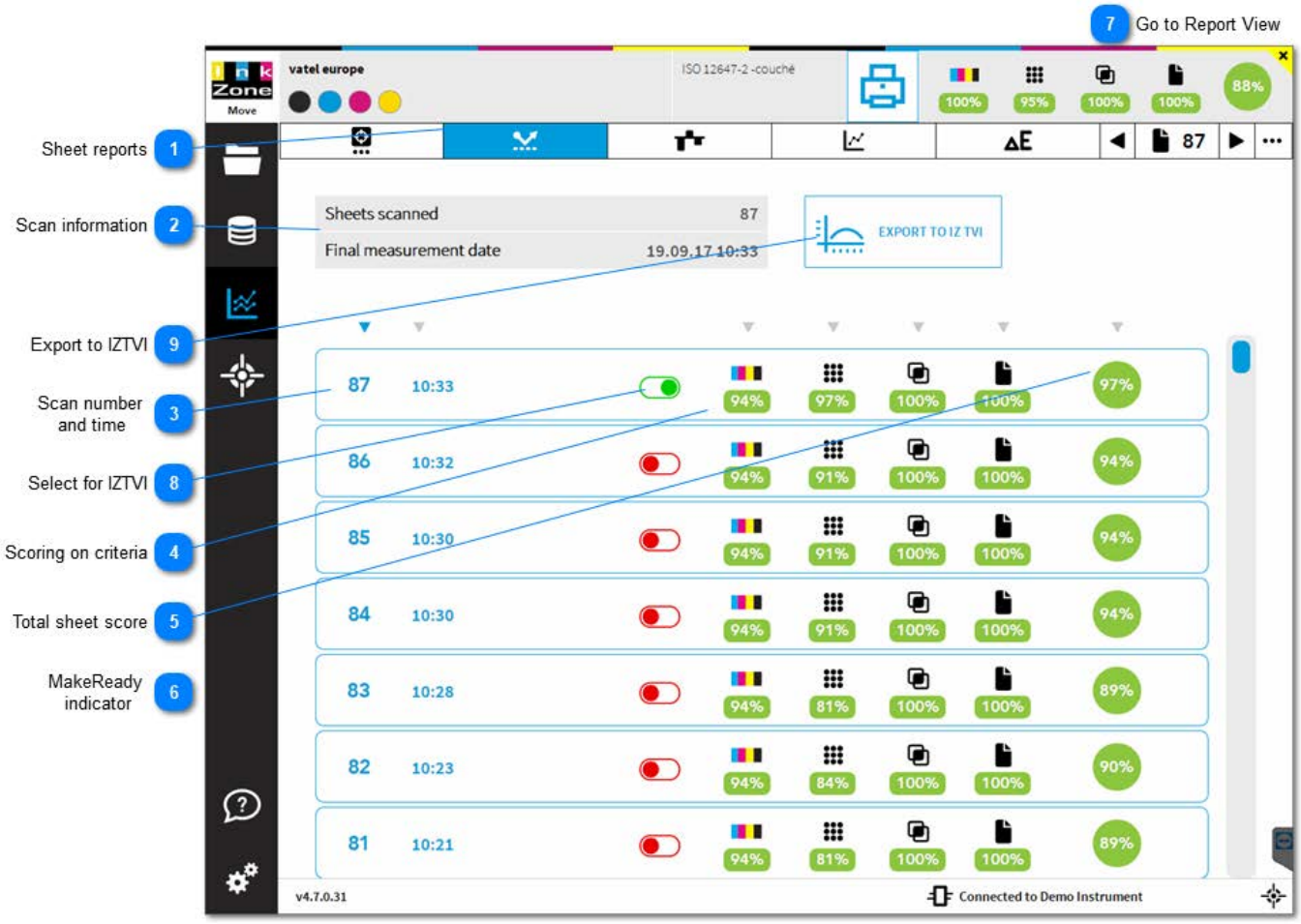


Tone value increase cure with print result and tolerance area.

12 Go to Report Views

1.4.2. Views

1.4.2.4. Sheet Reports



1 Sheet reports

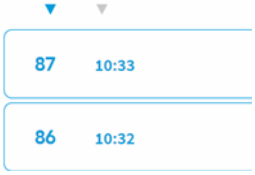
Access sheet report

2 Scan information

Sheets scanned	87
Final measurement date	19.09.17 10:33

Total scan measurement, including MakeReady, and the time when the last measurement was takenf

3 Scan number and time



Measurement number and time.
A click on a measurement brings you further to the DeltaE sheet report 1.4.2.6. Sheet report DeltaE

4 Scoring on criteria

Scoring for every criteria:
- solid color CMYK - deltaE
- TVI
- overprint - deltaE
- paper - deltaE

5 Total sheet score

Total scoring for selected sheet

6 MakeReady indicator

A grey background indicates that the sheet was measured during MakeReady.

7 Go to Report View

1.4.2. Views

8 Select for IZTVI

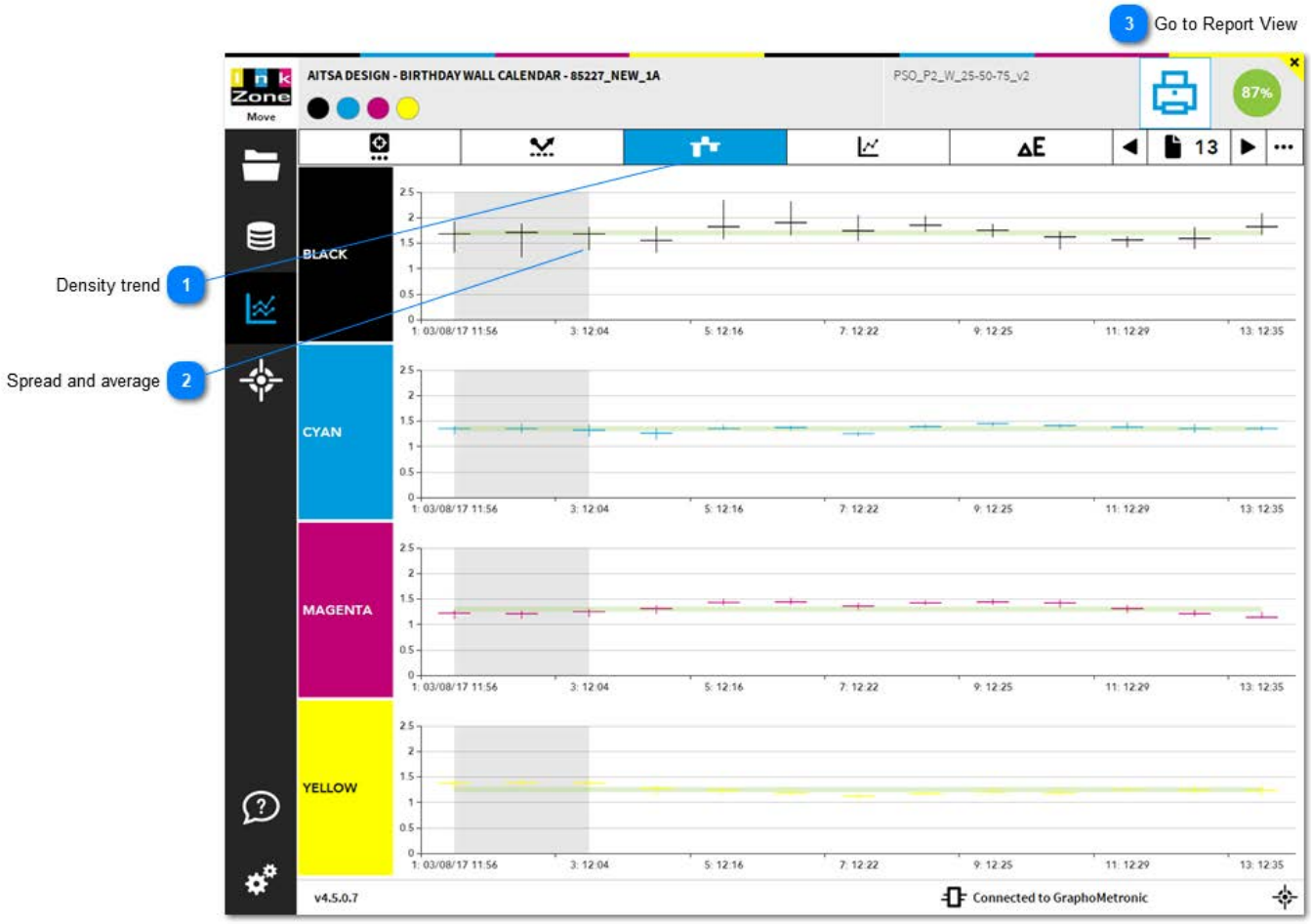
Select here the measurement data to be exported to InkZoneTVI for CTP plate compensation.
After selecting one or more measurement, press the button above "Export to IZ TVI" .

9 Export to IZTVI

After selecting one or more scan measurement, see "Select from IZTVI", the export button gets visible. Press the button and the selected dataset are exported for InkZoneTVI. A data average is created if more than one scan is selected.

1.4.2.5. Trend on Density

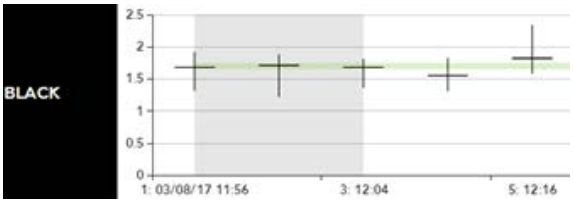
A density trend graphs displays the spread and average density for every measurement.



1 Density trend

The density trend graphs displays the spread and the average density for every measurement.

2 Spread and average



Indicates average density (horizontal) and spread (vertical).
Example:
Measurement number 5 has an average of 1,8 and a density spread from 1.55 to 2.40 which is the lowest and highest density reading from the black color.

3 Go to Report View

1.4.2. Views

1.4.2.6. Trend on Lab and TVI

Shows Lab trend for primary and secondary colours, trend for TVI plus the mid-tone spread.

1 Trend

Opens trends

2 Primary, Secondary colours

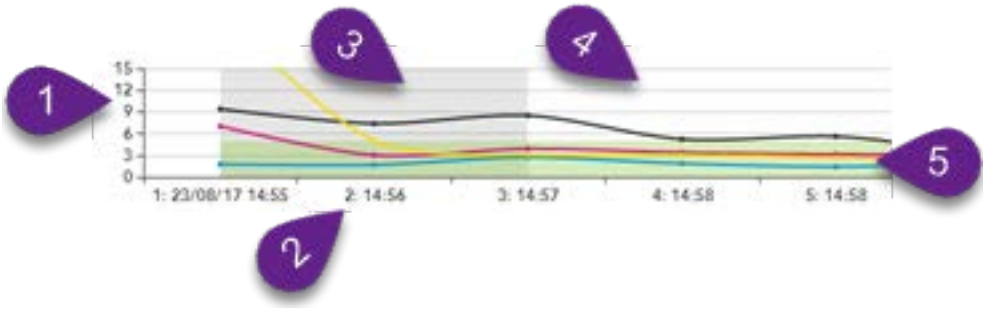
Black
Cyan
Magenta
Yellow

Blue (C+M)
Green (C+Y)
Red (M+Y)

Click on a colour here to toggle it on or off in the graph.

3 Diagram

Display of a color is toggled on and off by clicking on the color's name on the right.



1) DeltaE scale
2) Measurement number and time stamp
3) Grey area = status MakeReady mode
4) White area = status Production mode
5) Green area = tolerance

4 TVI percentage

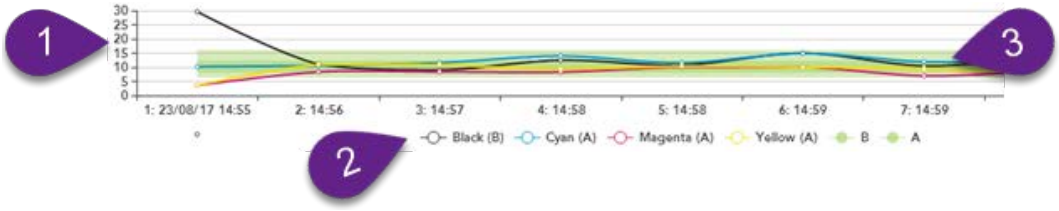
Depending on the target and scoring setup the trend for the TVI percentage are shown here.

Dot gain 25% (quarter tone)

Dot gain 50% (mid tone)

Dot gain 75% (three quarter tone)

5 TVI diagram



1) TVI percentage scale
2) Toggle diagram colours on and off
3) Tolerance area

6 Mid-tone spread

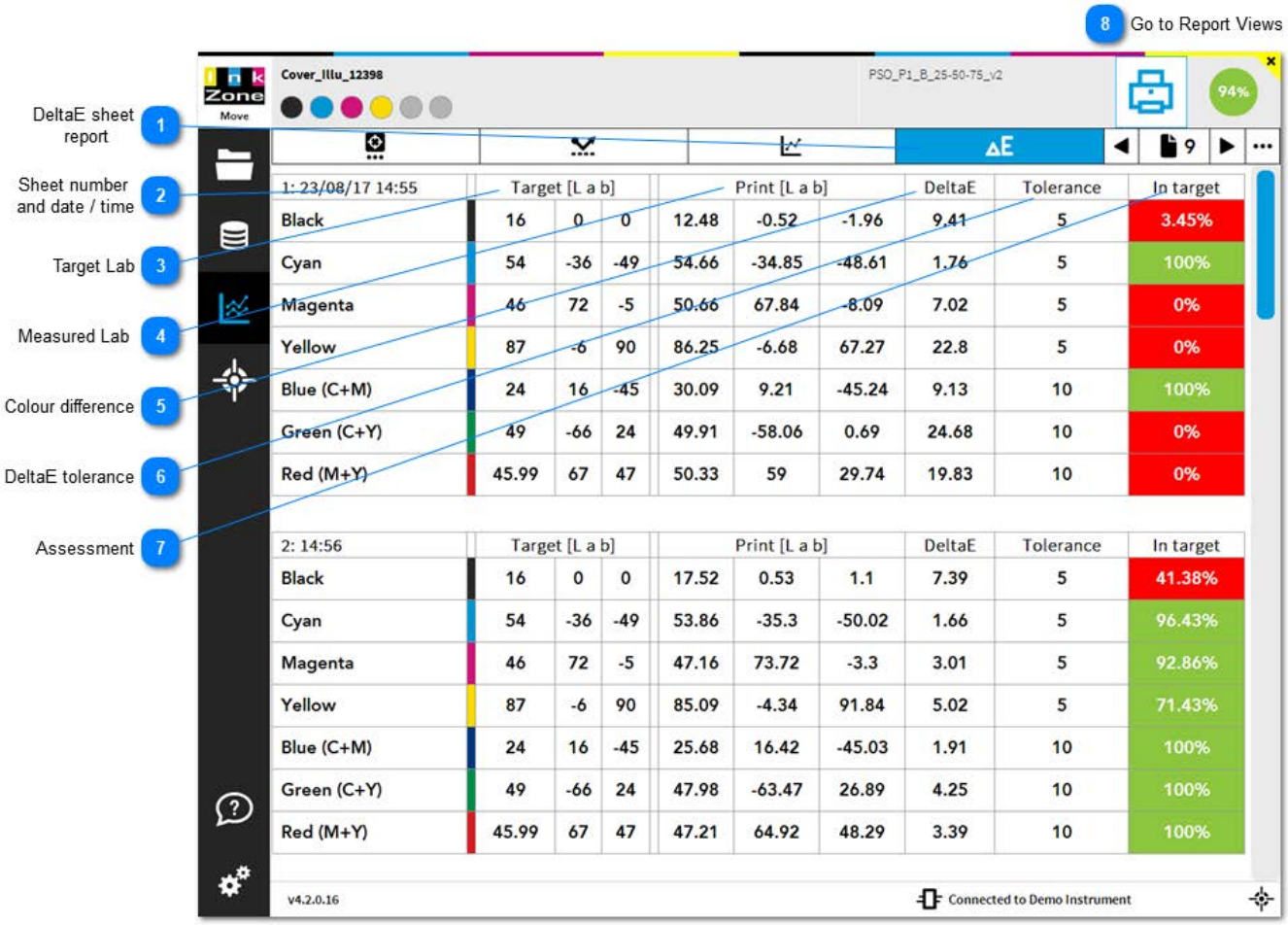
CMY mid-tone spread

7 Go to Report View

1.4.2. Views

1.4.2.7. Sheet Reports with Lab

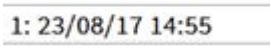
Report on every sheet with DeltaE on primary and secondary colours.



1 DeltaE sheet report

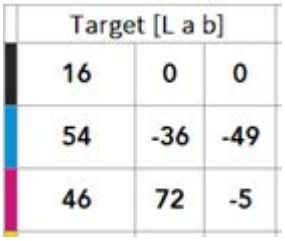
Opens DeltaE report for every measured sheet

2 Sheet number and date / time



Indicates sheet number and date and time

3 Target Lab



Target [L a b]		
16	0	0
54	-36	-49
46	72	-5

Target Lab for all printed colours

4 Measured Lab

Print [L a b]		
12.48	-0.52	-1.96
54.66	-34.85	-48.61
50.66	67.84	-8.09

Average Lab from all measured patches

5 Colour difference

DeltaE
9.41
1.76
7.02

DeltaE from target and measured patches

6 DeltaE tolerance

Tolerance
5
5
5

Tolerance for every colour, set in targetset

7 Assessment

In target
3.45%
100%
0%

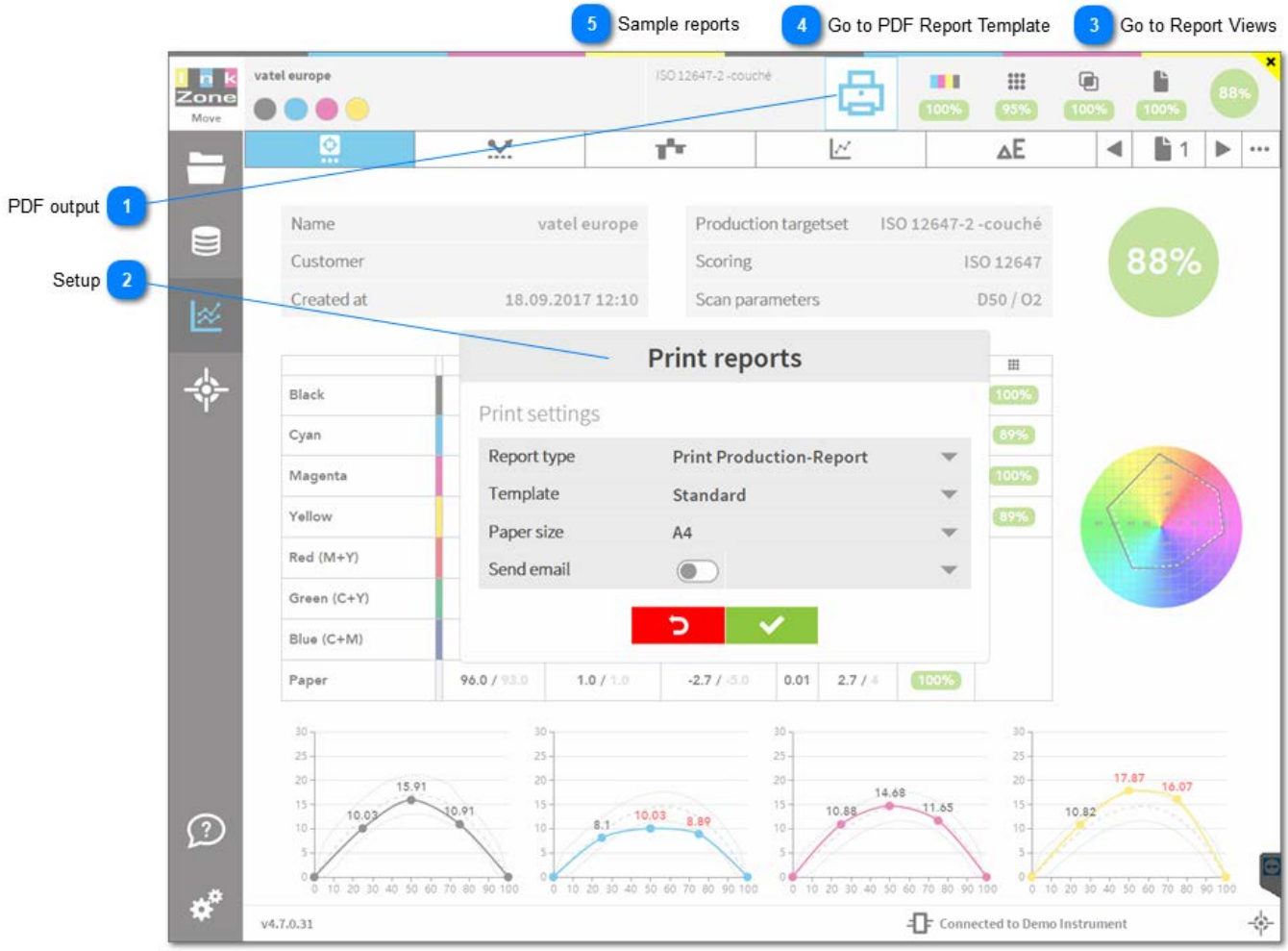
Displays number of patches in target [in percentage] with pass, fail indication

8 Go to Report Views

1.4.2. Views

1.4.2.8. PDF output

Print sheet or production report.



1 PDF output

Start here to create a PDF sheet or production report

2 Setup

Report Type

1) Production report
2) Single sheet report

Template

Select a PDF report template.
Setup a template here 1.2.8.8. PDF Report Template

Paper size
1) A4
2) Letter

Label print
On or off
Creates a narrow sized PDF to print on a label printer

3 Go to Report Views

1.4.2. Views

4 Go to PDF Report Template

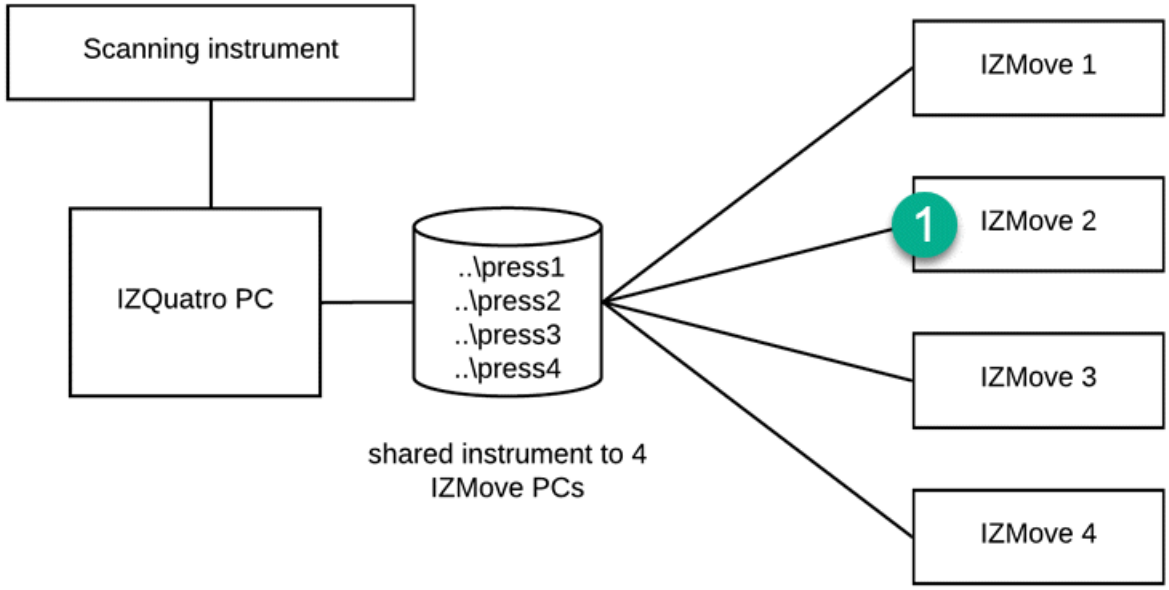
1.2.8.8. PDF report template

5 Sample reports

Sample

1.5. IZQuatro v3

InkZone Quatro shares a single scanning instrument between up to 4 press machines equipped with InkZoneMove.
The release v3 supports the instruments eXact AutoScan and SpectroDrive.



1.5.1. IZQuatro setup

1 **SpectroDriveNG**

Install the Techkon Device Service first. Then look up the SpectroDrive serial number at the device and set the serial number in the database. Open the database serial number setting with the link here: Set serial number in database

2 **eXact AutoScan**

Install the EAS driver and pair the eXact Bluetooth connection with the IZQuatro workstation. Bluetooth pairing, see here: 1.2.6.13.1. Connect by Bluetooth

3 **Device**

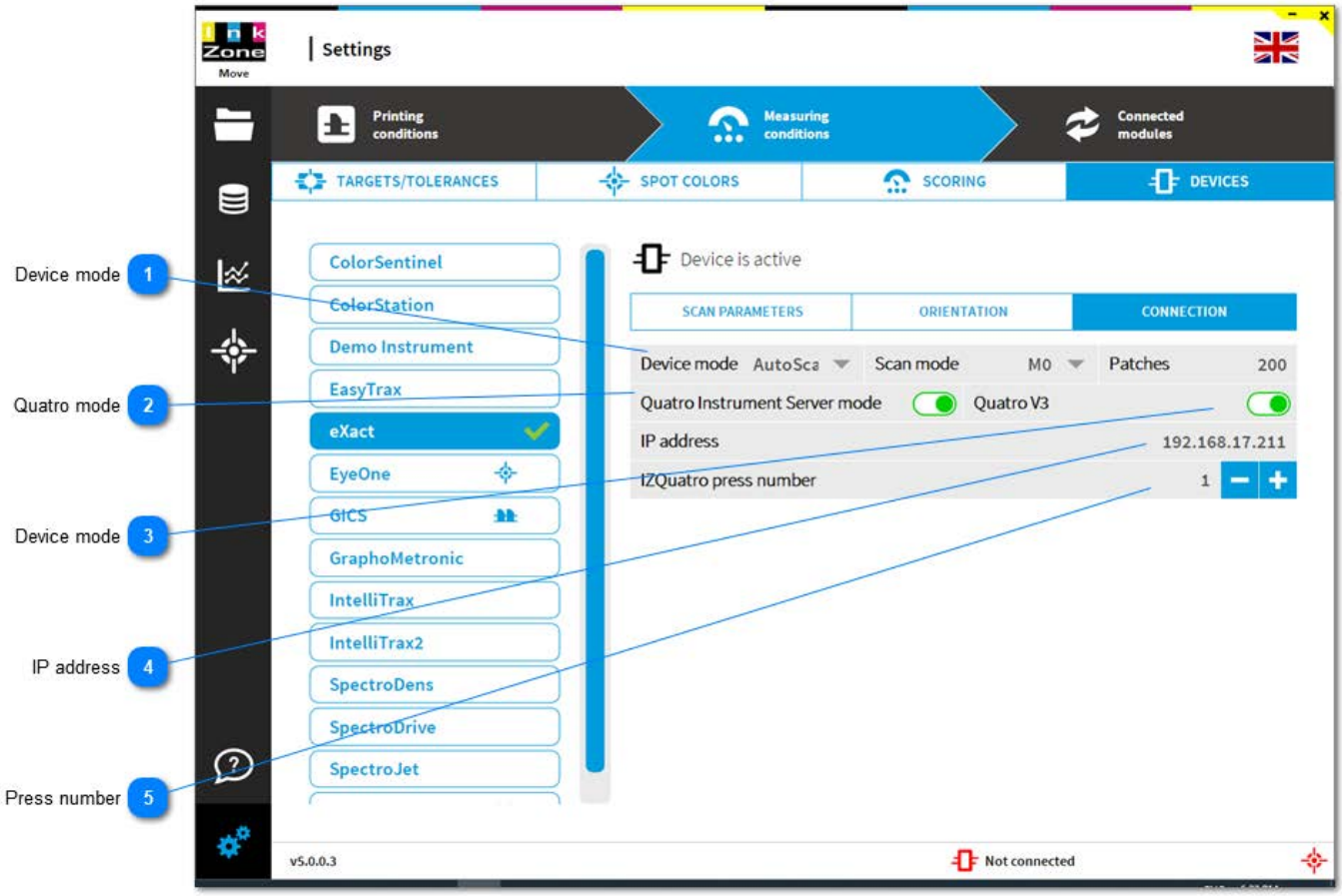
Device serial number

4 **Rescan**

Lookup all available instruments and select them from the list

1.5.2. eXact Setup at Workstation

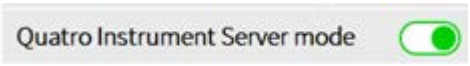
At the InZoneMove Workstation, go to "Devices" and enable "IZQuatro Instrument Server mode" and enable "Quatro V3" .



1 Device mode

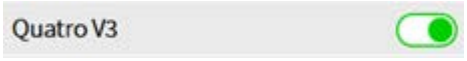
Select AutoScan for the eXact AutoScan system

2 Quatro mode



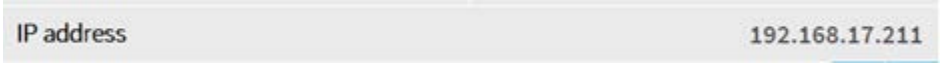
Activate the IZQuatro server mode

3 Device mode



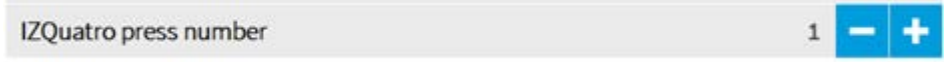
For eXact EAS and SpectroDrive NG select Quatro V3

4 IP address



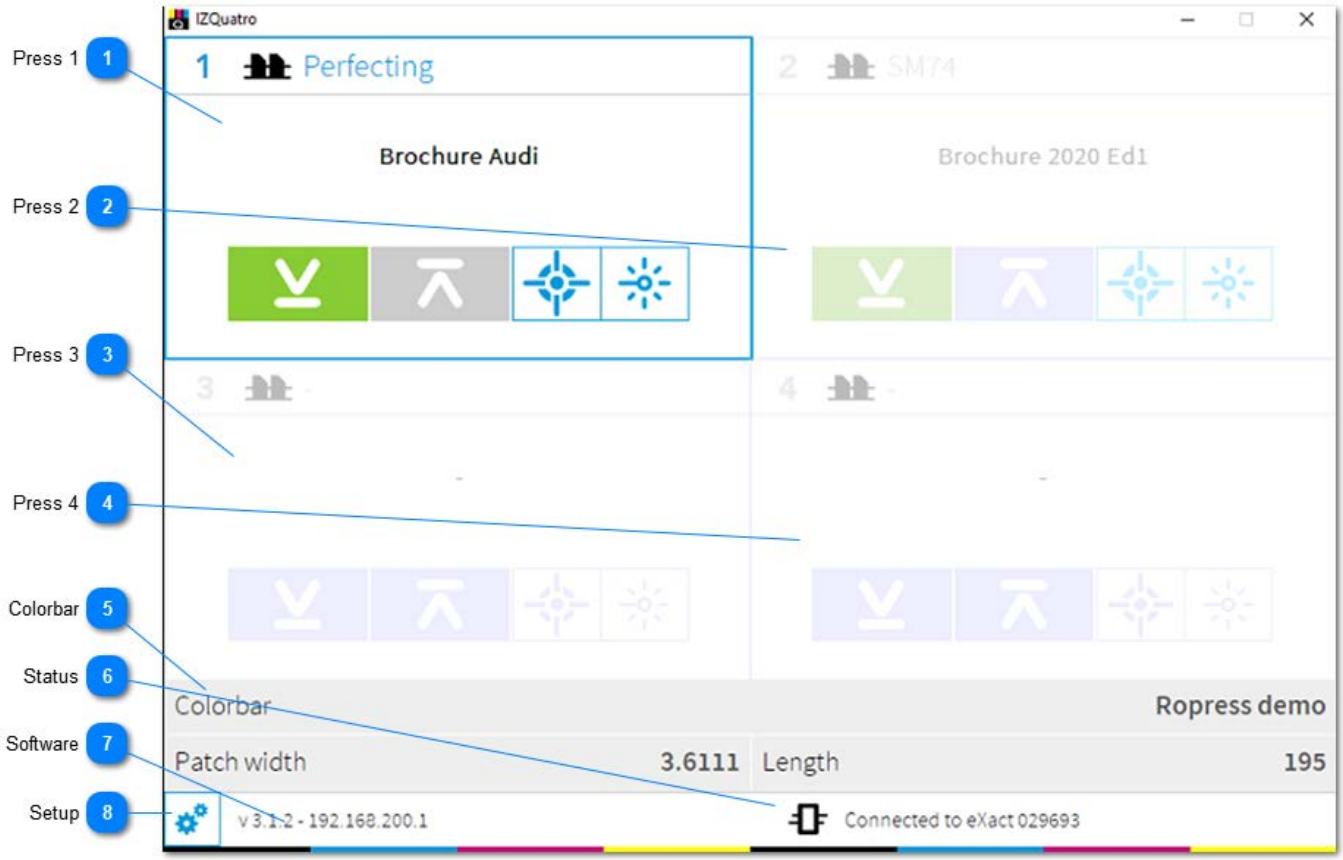
Enter the IP address of the IZQuatro PC here.
Important: the TCP port 5984 at IZQuatro PC's firewall needs to be open, see the firewall configuration here 1.2.7.1.2. Firewall Setup

5 Press number

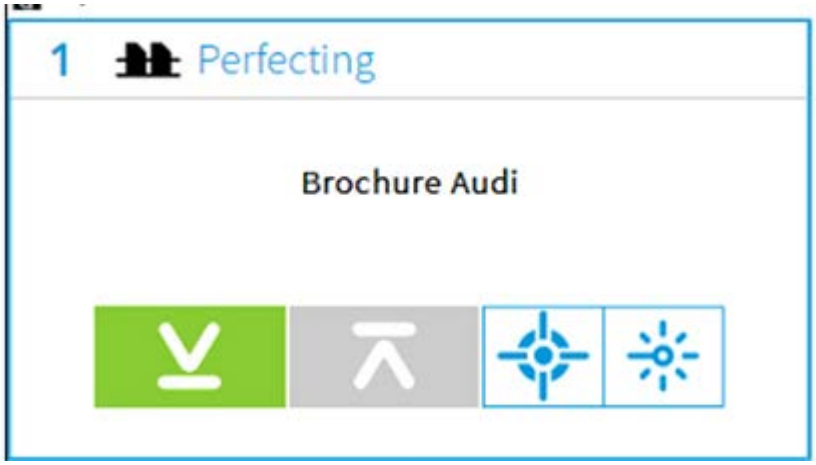


Assign for every IZMove workstation a printing press number which is then used as a reference on the IZQuatro UI.

1.5.3. User Interface



1 Press 1



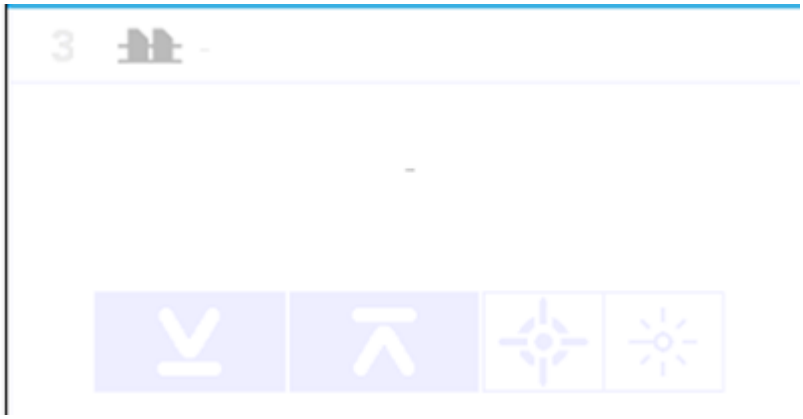
Settings for press 1 with press name on the top and job name in the center.

Scan button for upper side (on the left) and lower side (center). Spot measurement and laser on button to the right.

2 Press 2

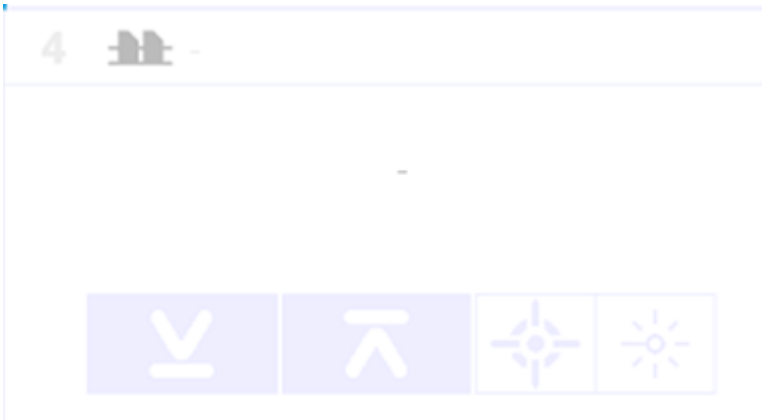
Press 2 scan and job area

3 **Press 3**



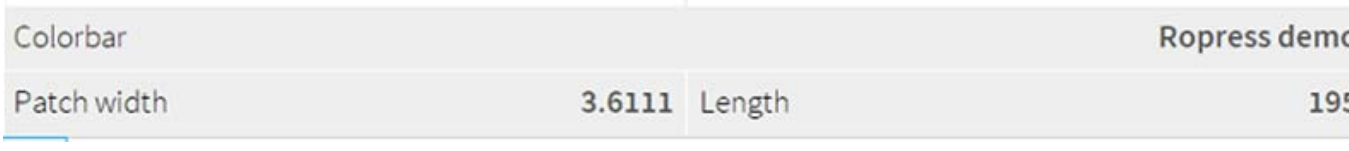
Press 3 scan and job area

4 **Press 4**



Press 4 scan and job area

5 **Colorbar**



Colorbar information from current selected press: colorbar name, patch width and length/patches

6 **Status**

Device status messages

7 **Software**

Software version and IP address of the IZQuatro Server.
Add this IP address at the InkZoneMove workstation. The IZQuatro PC, needs TCP port 5984 to be open in the Firewall.

8 **Setup**

Access software settings

FAQ section

Find here a collection of frequently asked questions.

Installation and Maintenance
Load license
Startup error MSVCR100.DLL
Computer with 2 monitors
How to migrate job database to a new hard disk

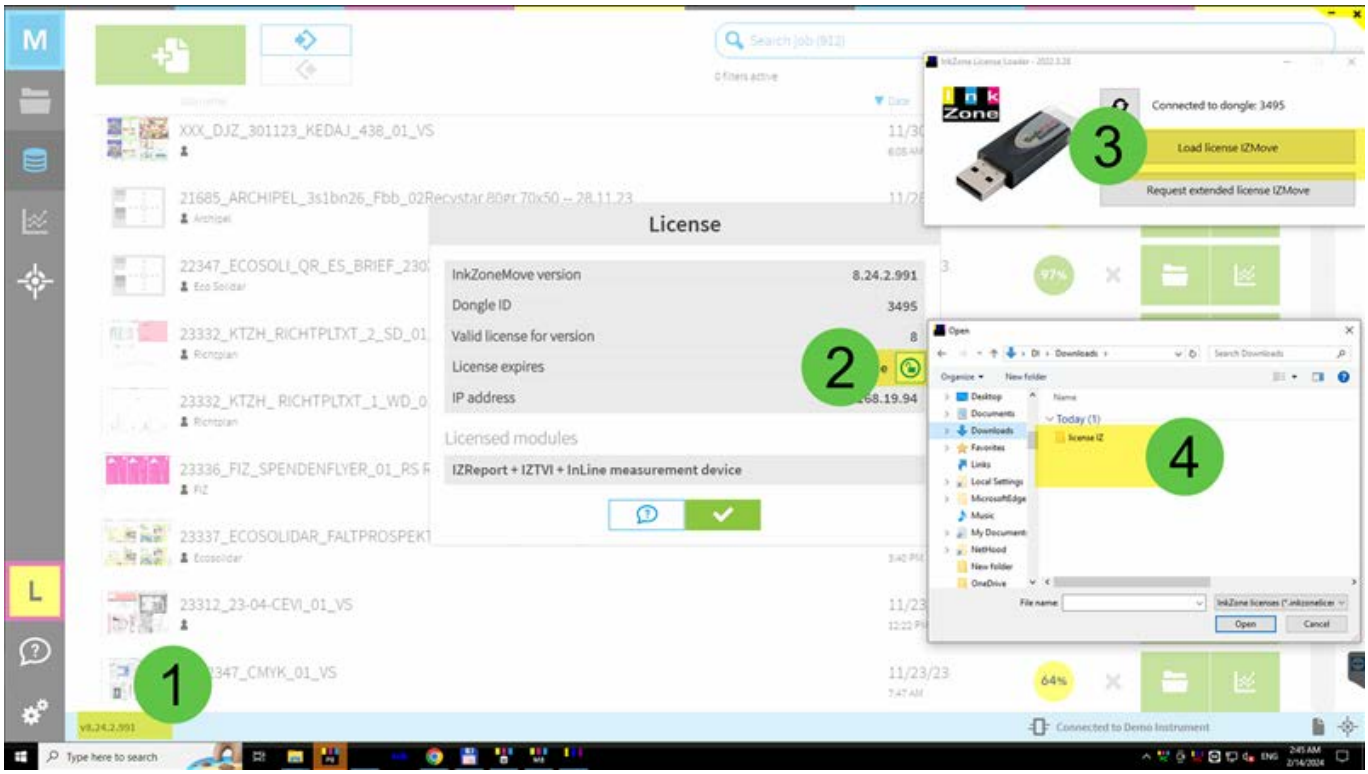
Setup
Send e-mail with Google Mail server
Shifted ink-key alignment
Prevent ink-key adjustment for invalid data by setting up density threshold parameter
Add a handheld device for as spot reading

Measurement
Colorbar reading, trigger exclusion for measurements before and after the sheet
Exclude paper white patches with Intellitrax
Exclude paper white patches IZTrack - SpectroJet

Instruments
SpectroJet encoder wheel adjustment

Load license

1. Select the dongle ID
2. Start the license loader
3. Load the license
4. Select the license from the local PC



Computer with 2 monitors

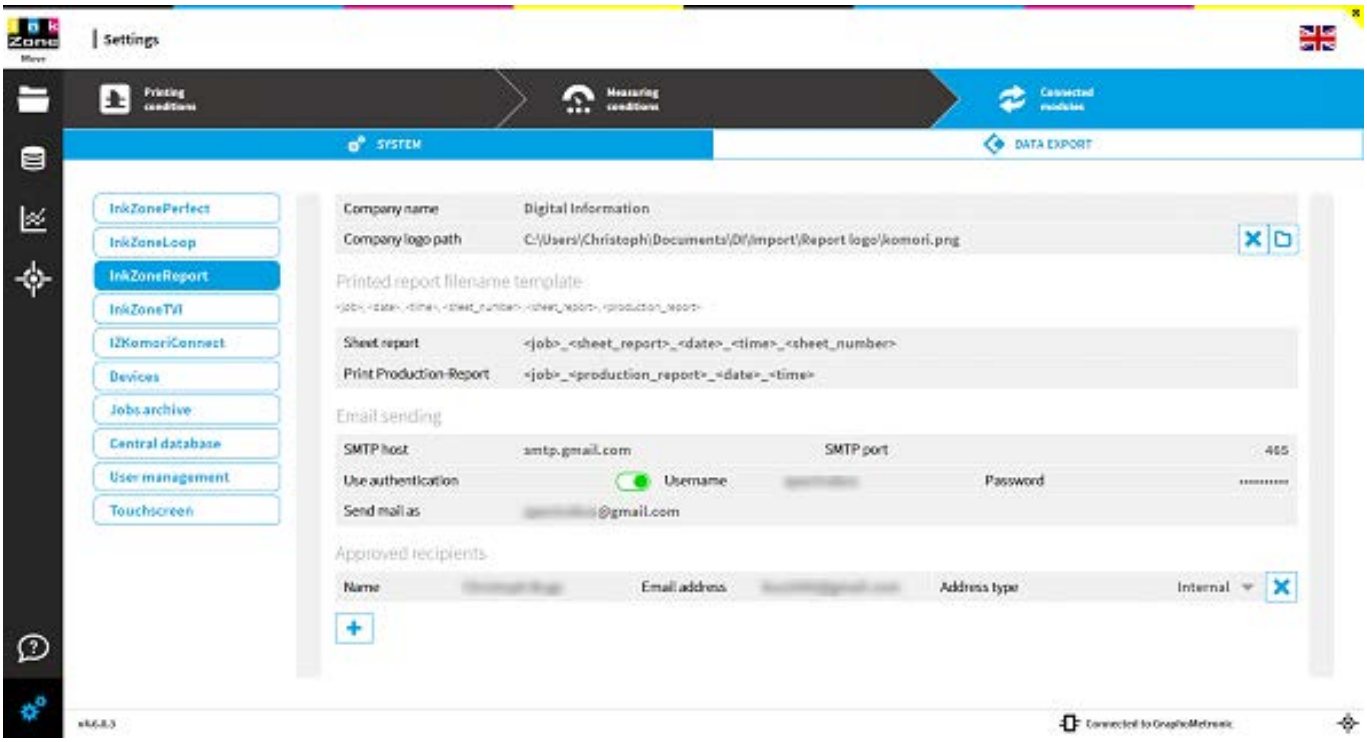
InkZoneMove should appear on the 2nd monitor. How to configure?
Press CTRL + ALT + 2 . Return to monitor 1 with CTRL + ALT + 1

Send e-mail with Google Mail server

a) Setup

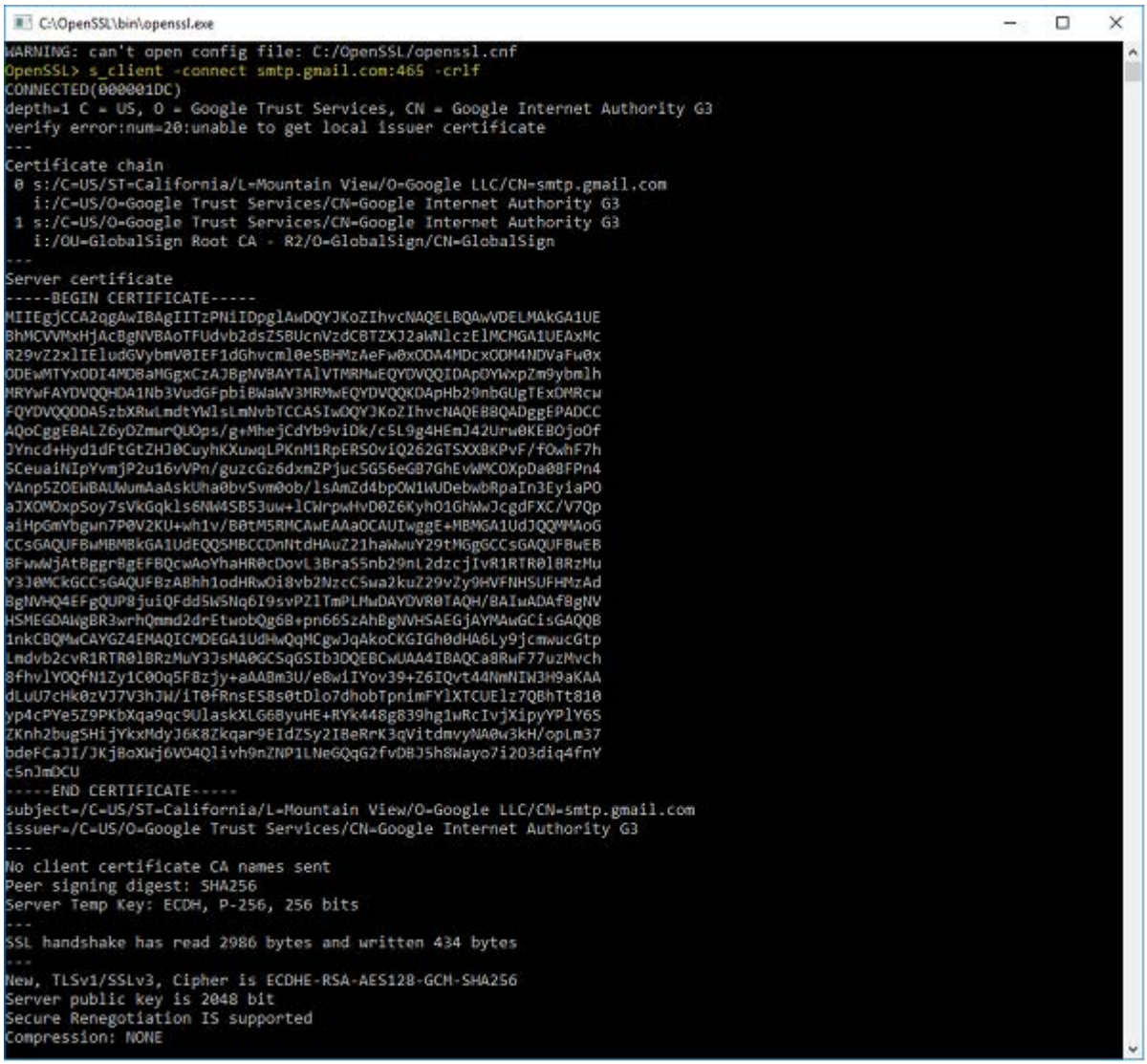
Gmail SMTP server address: smtp.gmail.com
Gmail SMTP username: Your Gmail address (e.g. example@gmail.com)
Gmail SMTP password: Your Gmail password
Gmail SMTP port (SSL): 465

If you can't send mail with your Gmail account for that reason, it's unlikely that you're entering the wrong SMTP settings. Instead, you'll get a message related to the security of the email client.
To solve this, log in to your Google account through a web browser and enable access through less secure apps through this link.
If that is not the reason Gmail isn't working in your email client, see How to Unlock Gmail for a New Email Program or Service.



b) Verify SSL connection with OpenSSL for Windows

1. Download OpenSSL for Windows from sourceforge: https://sourceforge.net/projects/openssl/
2.Copy folder OpenSSL to c:\OpenSSL
3.Start openssl.exe from C:\OpenSSL\bin
4.Connect to the smtp server:
OpenSSL> s_client -connect smtp.gmail.com:465 -crlf
The complete procedure is described here: https://taufanlubis.wordpress.com/2016/02/08/how-to-send-email-via-gmail-server-using-openssl/


C:\OpenSSL\bin\openssl.exe
WARNING: can't open config file: C:/OpenSSL/openssl.cnf
OpenSSL> s_client -connect smtp.gmail.com:465 -crlf
CONNECTED(000001DC)
depth=1 C = US, O = Google Trust Services, CN = Google Internet Authority G3
verify error:num=20:unable to get local issuer certificate

Certificate chain
0 s:/C=US/ST=California/L=Mountain View/O=Google LLC/CN=smtp.gmail.com
i:/C=US/O=Google Trust Services/CN=Google Internet Authority G3
1 s:/C=US/O=Google Trust Services/CN=Google Internet Authority G3
i:/OU=GlobalSign Root CA - R2/O=GlobalSign/CN=GlobalSign

Server certificate
-----BEGIN CERTIFICATE-----
MIIEgjCCA2qgAwIBAgIITzPNiIDpglAwDQYJKoZIhvcNAQELBQAwVDELMAkGA1UE
BhMCVVMxHjAcBgNVBAoTFUdvb2dsZSBUcnVzdCBTZXJ2aWNlczElMCMGA1UEAxMc
R29vZ2xlIEludGVybmV0IEF1dGhvcml0eSBHMzAeFw0xODA4MDcxODM4NDVaFw0x
ODEwMTYxODI4MDBaMGgxCzAJBgNVBAYTAlVTMRMwEQYDVQQIDApDYWxpZm9ybmlh
MRYwFAYDVQQHDA1Nb3VudGFpbiBWaWV3MRMwEQYDVQQKDApHb29nbGUgTExDMRcw
FQYDVQQDDA5zbXRwLmdtYWlsLmNvbTCCASIwDQYJKoZIhvcNAQEBBQADggEPADCC
AQoCggEBALZ6yDZmwrQUOps/g+MhejCdYb9viDk/c5L9g4HEmJ42Uru0KEBOjoOf
JYncd+Hyd1dFtGtZHJ0CuyhKXuwqLPKnM1RpERSOviQ262GTSXXBKPvF/fOwhF7h
5CeuaiNIpYvmjP2u16vVPn/guzcGz6dxmZPjucSGS6eG87GhEvWMCOXpDa08FPn4
YAnp5ZOEWBAUWumAaAskUha0bvSvm0ob/lsAmZd4bpOW1WUDebwbRpaIn3EyiaPO
aJXOMOxpSoy7sVkGqkls6NW4SB53uw+lCWrpwHvD0Z6KyhO1GhWwJcgdFXC/V7Qp
aiHpGmYbgwn7P0V2KU+wh1v/B0tM5RMCAwEAAaOCAUIwggE+MBMGA1UdJQQMMAoG
CCsGAQUFBwMBMBkGA1UdEQQSMBCCDnNtdHAuZ21haWwuY29tMGgGCCsGAQUFBwEB
BFwwWjAtBggrBgEFBQcwAoYhaHR0cDovL3Bra5Snb29nL2dzcjIvR1RTR0l8RzMu
Y3J0MCkGCCsGAQUFBzABhh1odHRwOi8vb2NzcC5wa2kuZ29vZy9HVFNHSUFHMzAd
BgNVHQ4EFgQUP8juiQFdd5W5Nq6I9svPZITmPLMwDAYDVR0TAQH/BAIwADAfBgNV
HSMEGDAWgBR3wrhQmmd2drEtwobQg68+pn66SzAhBgNVHSAEGjAYMAwGCisGAQQB
1nkCBQMwCAYGZ4EMAQICMDEGA1UdHwQqMCgwJqAkoCKGIGh0dHA6Ly9jcmwucGtp
Lmdvb2cvR1RTR0lBRzMuY3JsMA0GCSqGSIb3DQEBCwUAA4IBAQCa8RwF77uzMvch
8fhvlYOQfN1Zy1C0Oq5F8zjy+aAABm3U/eBwiIYov39+Z6IQvt44NmNIW3H9aKAA
dLuU7cHk0zVJ7V3hJW/iT0fRnsES8s0tDlo7dhobTpnimFYlXTCUElz7QBhTt810
yp4cPYe5Z9PKbXqa9qc9UlaskXLG6ByuHE+RYk448g839hg1wRcIvjXipyYPlY6S
ZKnh2bugSHijYkxMdyJ6K8Zkqar9EIdZSy2IBeRrK3qVitdmvyNA0w3kH/opLm37
bdeFCaJI/JKjBoXWj6VO4Qlivh9nZNP1LNeGQqG2fvD8J5h8Wayo7i2O3diq4fnY
c5nJmDCU
-----END CERTIFICATE-----
subject=/C=US/ST=California/L=Mountain View/O=Google LLC/CN=smtp.gmail.com
issuer=/C=US/O=Google Trust Services/CN=Google Internet Authority G3

No client certificate CA names sent
Peer signing digest: SHA256
Server Temp Key: ECDH, P-256, 256 bits

SSL handshake has read 2986 bytes and written 434 bytes

New, TLSv1/SSLv3, Cipher is ECDHE-RSA-AES128-GCM-SHA256
Server public key is 2048 bit
Secure Renegotiation IS supported
Compression: NONE

Exclude paper white patches with Intellitrax

Certain papers types can cause an incorrect reading of the leading paper white area on the sides of the colorbar.
The sample below shows a paper white patch at the end of the measured colorbar which should be excluded.

There is a **L threshold** setup to exclude such patches on both sides of the colorbar.
Open the database with this link:
http://localhost:5984/photon/_design/photon/index.html#inkzone-central/_view/config/instruments

Go to the entry and change:
First_bad_patches_L_min
First_bad_patches_L_max

Exclude paper white patches with IZTrack - SpectroJet and SpectroDens

Certain papers types can cause an incorrect reading of the leading paper white area on the sides of the colorbar. The sample below shows a paper white patch at the end of the measured colorbar which should be excluded.

Paper white patches on start and end of the scan are removed by the following logic:
1. The first scan measurement of a newly created job uses the L value from the selected targetset with double tolerance to detect and exclude the paper white on the side of the colorbar. The default tolerance is 2 for the initial scan it becomes 2 x 2 = 4.

2. The second measurement uses the measured paper white patch from the colorbar itself plus the default tolerance.

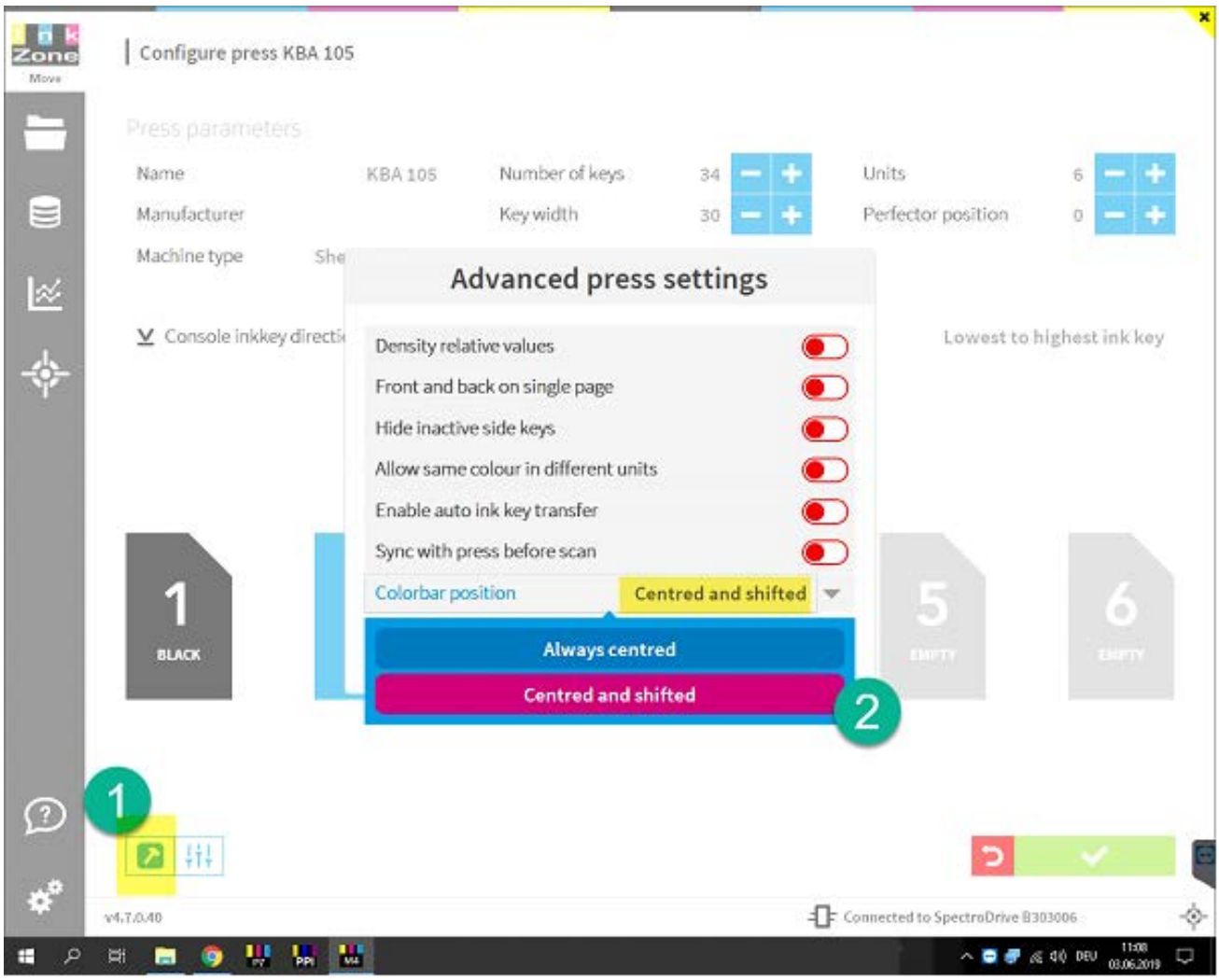
3. If paper white patches on the side are not detected as such then slightly increase the tolerance for the white paper detection in document. Open the database with this link:
http://localhost:5984/photon/_design/photon/index.html#inkzone-central/config-move

Go to the key called **max_L_tolerance .** Its by default on 2. A larger tolerance value excludes paper white patches with low L value on the side of the measurement.

Shifted ink-key alignment

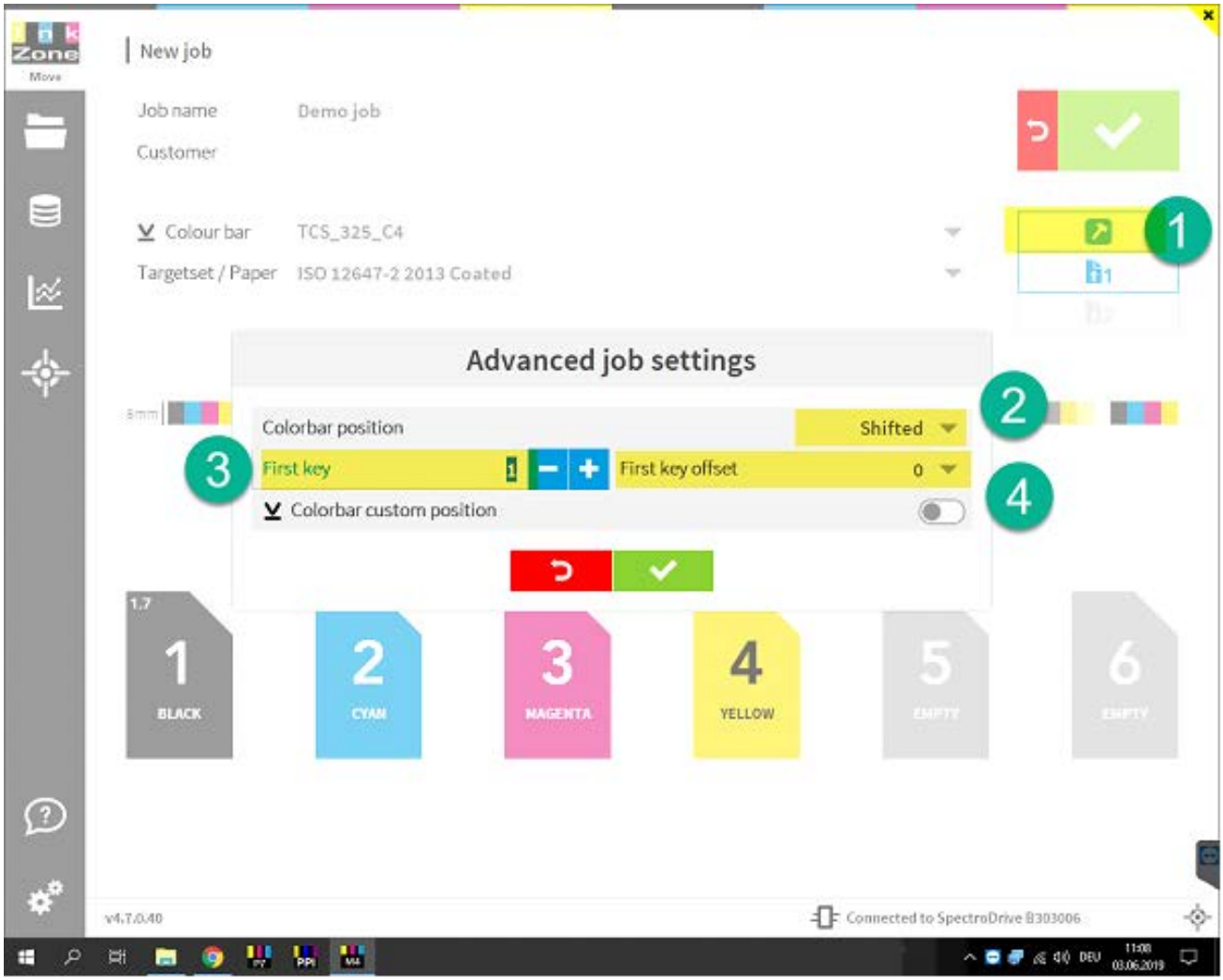
Use the following setup parameters when the colorbar is not printed centred over press machines ink-keys.

1) Setup press with “shifted” ink-key alignment



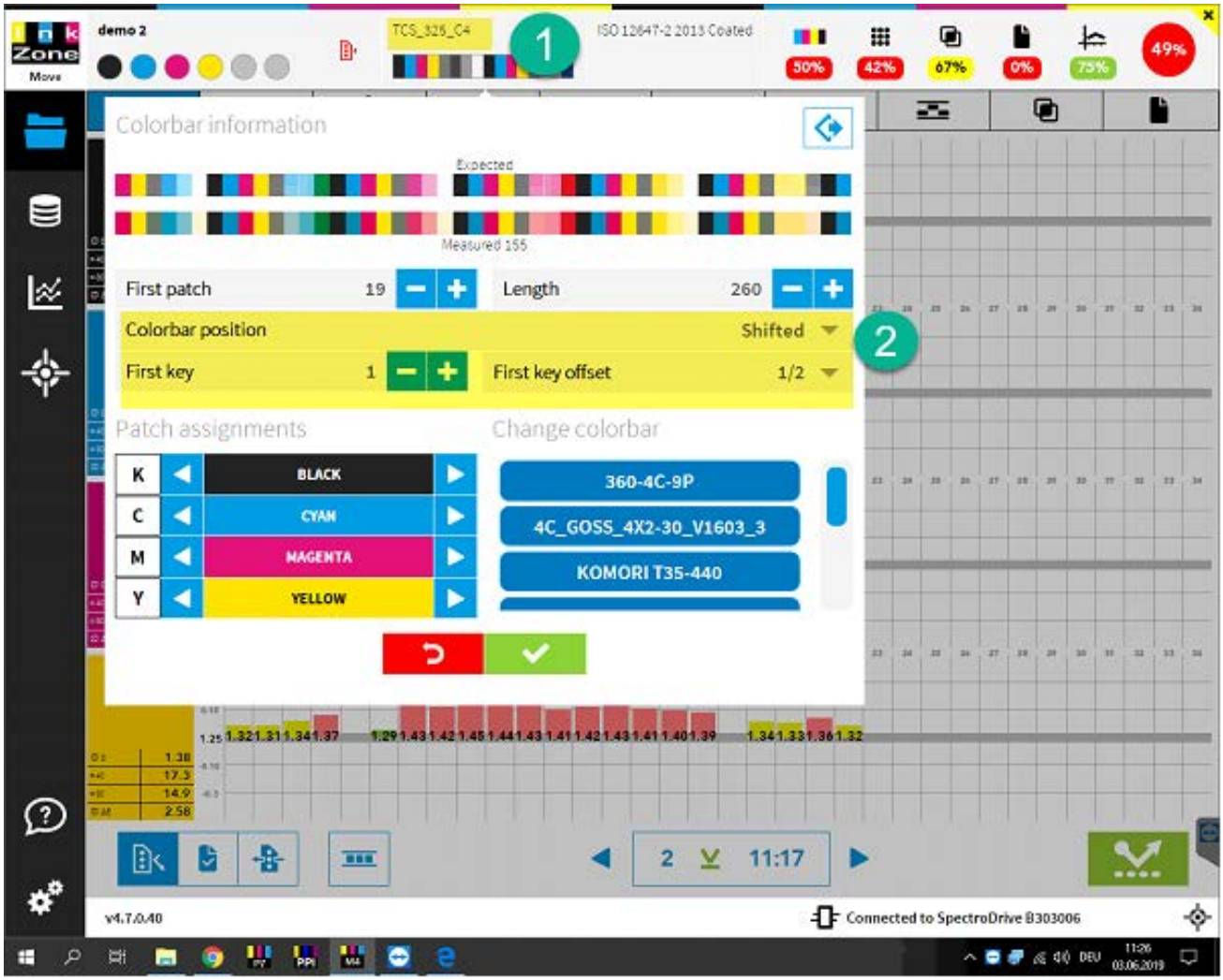
1) Advanced press settings
2) Choose centred and shifted

2) Job setup



1) During job setup, choose extended job setting.
2) Select shifted
3) Select the ink-key number where the color bar starts
4) Select an offset of 0 or ¼ or ½ or ¾ within the selected ink-key (selected at 3)

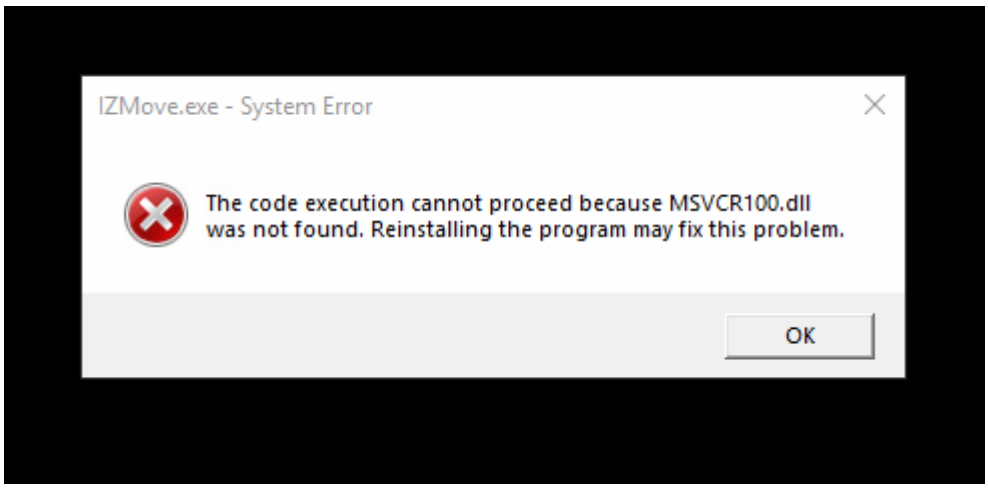
3) Change colorbar parameter during print



1) Select colorbar menu
2) Set-up the colorbar positioning parameter

Startup error MSVCR100.DLL

The X-Rite eXact DLL requires a DLL from the Microsoft Visual C++ 2010 Service Pack 1.
If the DLL is missing, InkZoneMove throws an error during startup:



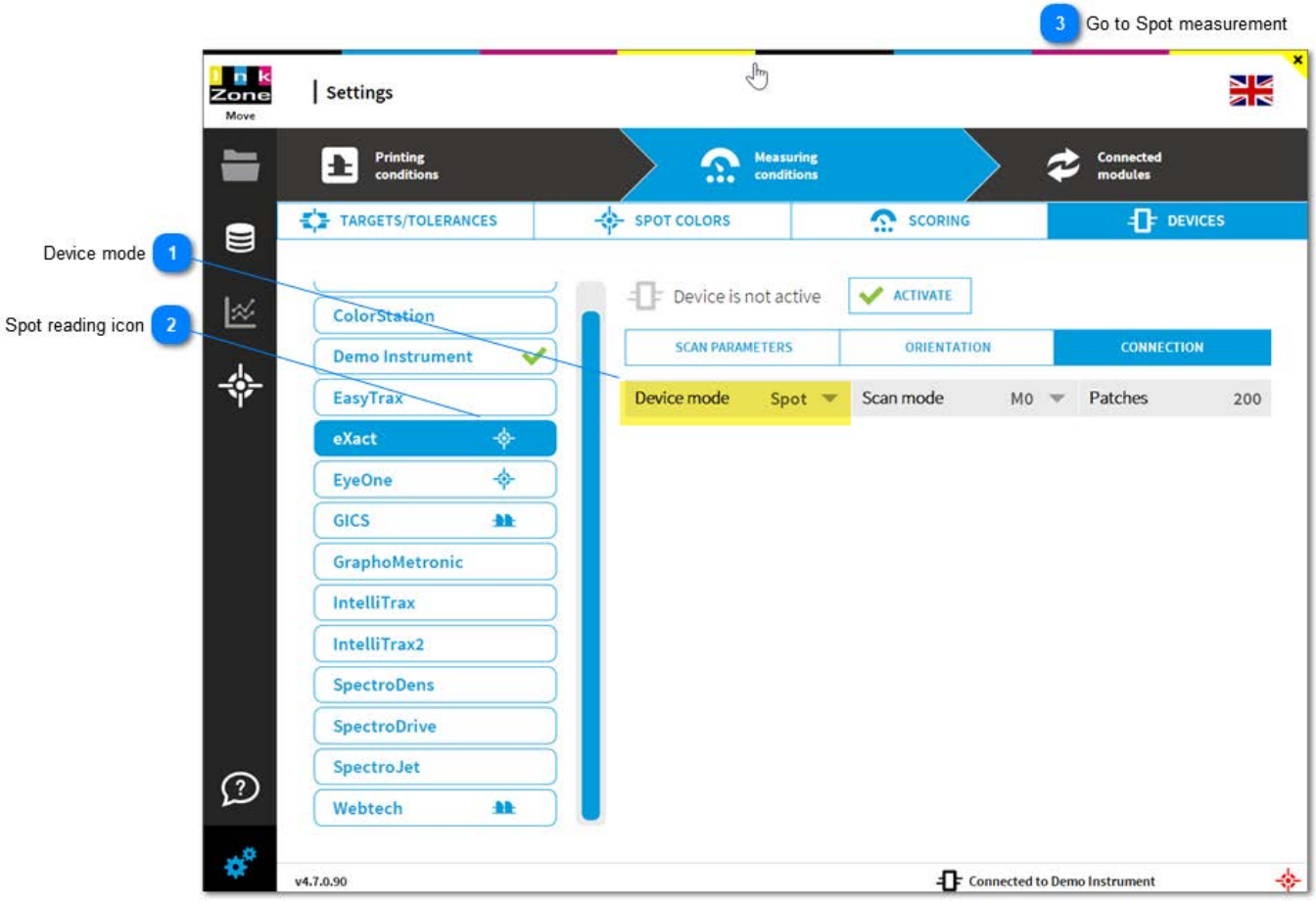
Update or install the DLL from the Microsoft website or from here: link to vcredist_x86.exe

Prevent ink-key adjustment for invalid data by setting up density threshold parameter

Go to the InkZoneLoop setting in the system setup: 1.2.7. System Setup

Add a handheld device for spot reading

The X-Rite i1 or X-Rite eXact device can be used for spot reading when IntelliTrax or others.
Go to the instrument device page and activate the spot reading device, see 1.2.6.13. eXact
Note: install the X-Rite driver eXact driver: https://download.digiinfo.com/#x-rite-exact-autoscan-driver-v3-0-0



1 Device mode

Select the option "Spot" when using the instrument for spot measurement.

2 Spot reading icon

For an instrument in spot reading mode an icon appears next to the instrument name.

3 Go to Spot measurement

1.1.16. Spot Measurement

eXact - White Base Calibration

Start a white base calibration from the instrument when you experience problems during connecting to the device.

See here: 1.2.6.13.4. White Base Calibration

How to migrate job database to a new disk

When disk space is getting low on the disk where CouchDB is installed, then it is advisable to move the database to another disk with enough disk space.

1. Start **Services** on the InkZone computer
2. **Stop** the service **Apache CouchDB**
3. On the new disk, create a **new folder**, e.g. E:\CouchDB

4. **Copy** the folder **C:\couchDB\data** to folder **E:\CouchDB**
5. **Edit** the file **C:\couchDB\etc\local.ini** and **add** in the section [CouchDB] the lines:

[couchdb]
...
database_dir=E:\CouchDB\data
view_index_dir=E:\CouchDB\data
...

6. **Start** the service **Apache CouchDB**
7. Finish

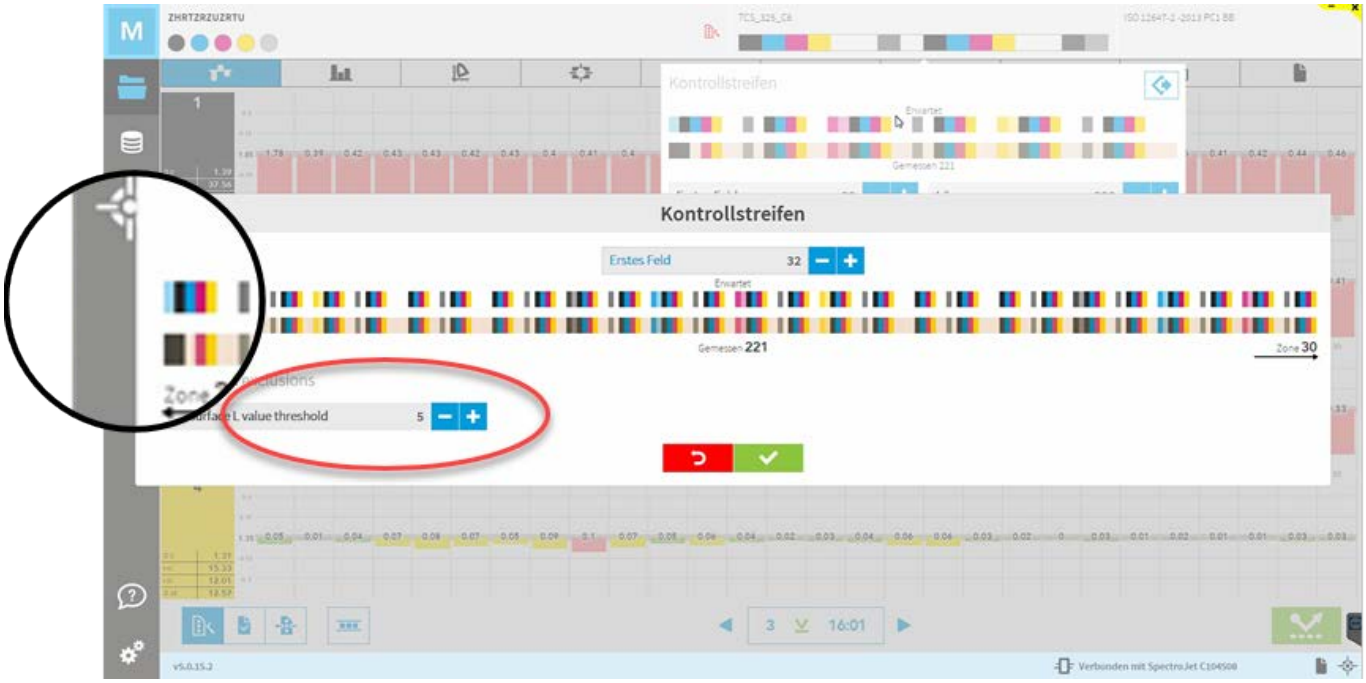
Colorbar reading, trigger exclusion for measurements before and after the sheet

The scanning instrument scans the colorbar and may return to the data of the real colorbar the data for the area left and right of the sheet. These patches are invalid and need to be removed automatically.

Dark area (black surface)
Light area (paper)

Dark area

When the surface of the instrument reading area is black and after scanning several dark patches are visible on the right / left then you need to adjust the Black surface L threshold value.
The example below shows the extended colorbar view where the L threshold is 5. All patches on the sides with a L value between 0 and 5 are excluded from the reading. The L=5 value is too low and needs adjustment. In the extended colorbar view, click on the dark patches on the side and review the L value. Then adjust the Black surface L threshold value for the exclusion.

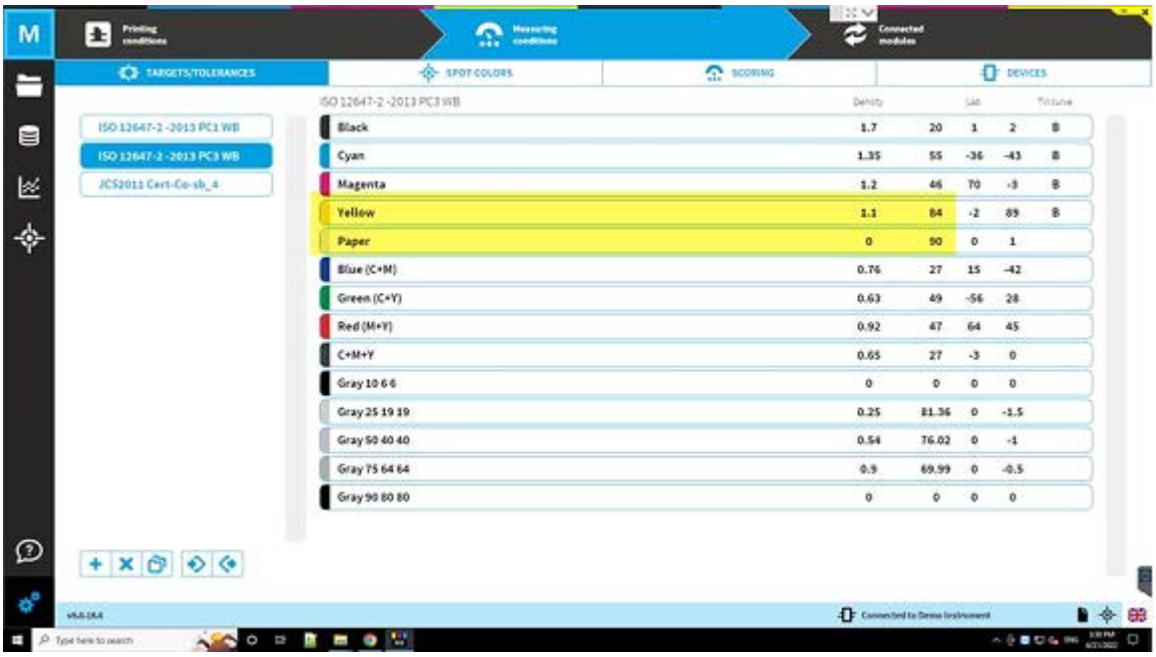


Light area (paper)
When patches on the left and right are missing due to their weak contrast to the paper surface, the L value of such patches are very close to the L value of the paper, they will get removed automatically.

InkZoneMove excludes patches where the L value indicates a paper. Depending on the paper itself (coated, uncoated etc), the L is somewhere between e.g. 90 and 95. The critical L for a yellow patch are somewhere between e.g. 84 to 89.

Coated

Uncoated



InkZoneMove detects the paper L value by looking at:
1. Paper white patch from scan
2. Paper white from paper white calibration
3. Paper white from targetset

Ideally, it finds a paper patch in the colobar (item 1). If there is no such patch, it takes the L value from the paper white calibration (item 2). If neither available, it looks at the paper definition in the targetset (item 3).

If you find that the patches are removed on the side, check carefully:
- is a paper white patch available in the colorbar?
- was the paper white calibration done before measuring?
- is the targetset correctly chosen for the paper?

The database setting max_L_tolerance in inkzone-central/config-move can be adjusted to a higher value when light patches were incorrectly excluded.

Video tutorial

Find here a collection of video tutorial for InkZoneMove.

Job setup

Load an archived job and setup a new print sequence