

# **InkZoneMove User Guide**

Find more information about the product on our website:

<http://www.digiinfo.com>

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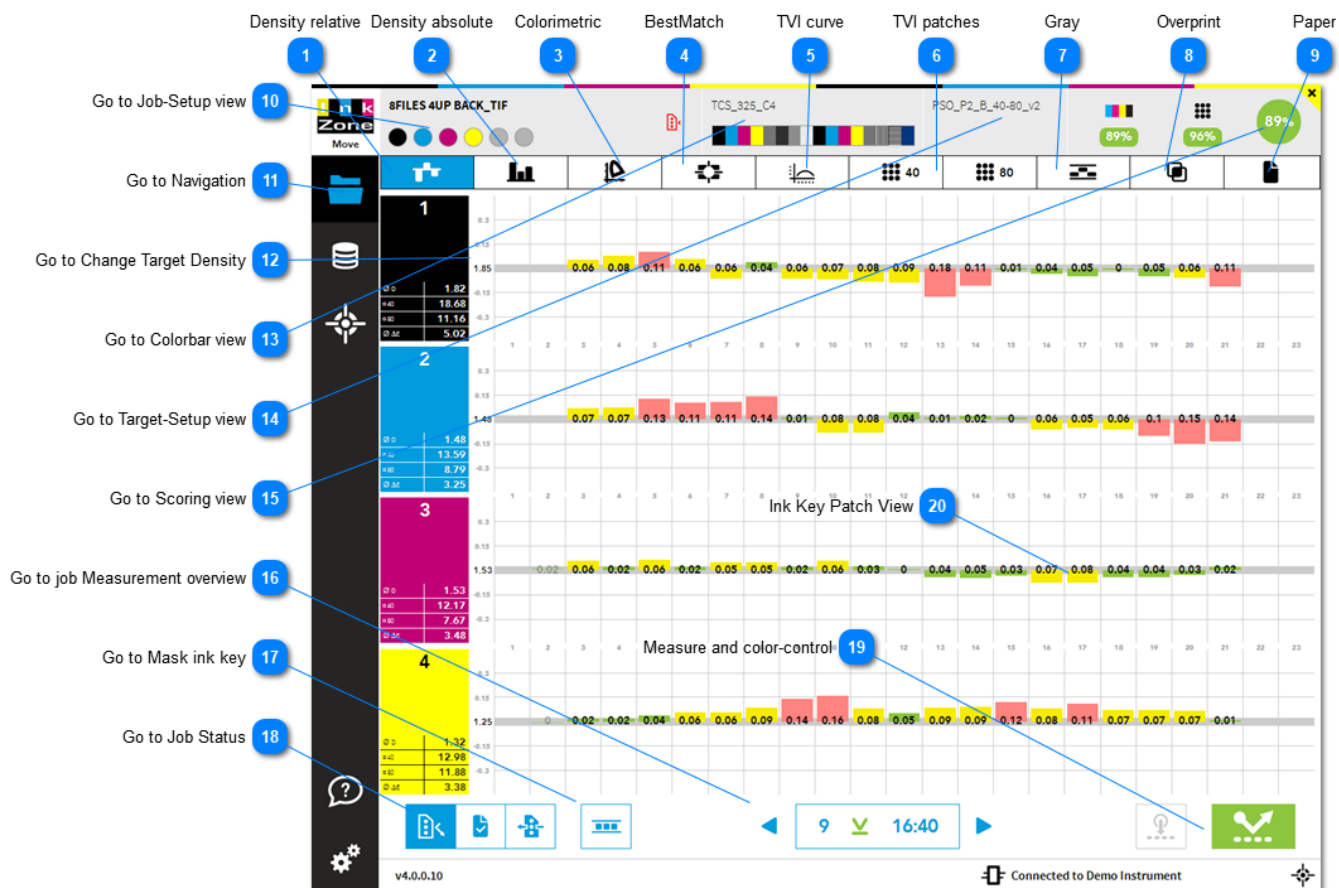
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## 1. Screens Online Manual

### 1.1. Measurement View



#### 1 Density relative



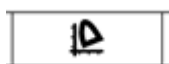
See chapter [1.1.2 Density Relative View](#)

#### 2 Density absolute



See chapter [1.1.3 Density Absolute View](#)

#### 3 Colorimetric



See chapter [1.1.4 ColoriMetric View](#)

#### 4 BestMatch



See chapter [1.1.5 BestMatch View](#)

5

**TVI curve**

See chapter [1.1.6 Dotgain Curve View](#)

6

**TVI patches**

See chapter [1.1.6. Dotgain View](#)

7

**Gray**

See chapter [1.1.7. Gray View](#)

8

**Overprint**

See chapter [1.1.8. Overprint View](#)

9

**Paper**

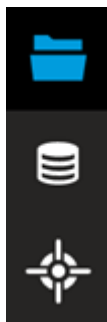
See chapter [1.1.9. Paper View](#)

10

**Go to Job-Setup view**

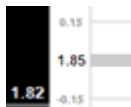
See chapter [1.1.2. Job-Setup view](#)

11

**Go to Navigation**

Navigate from here to the job setup, reporting etc. pages  
See chapter [1.1.1. Navigation area](#)

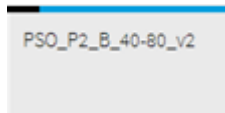
12

**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**

See chapter [1.1.4. Target-Setup view](#)

**15 Go to Scoring view**

See chapter [1.1.5. Scoring view](#)

**16 Go to job Measurement overview**

See chapter [1.1.13. Job Measurement Overview](#)

**17 Go to Mask ink key**

See chapter [1.1.11. Mask ink key / unit](#)

**18 Go to Job Status**

See chapter [1.1.12. Job Status](#)

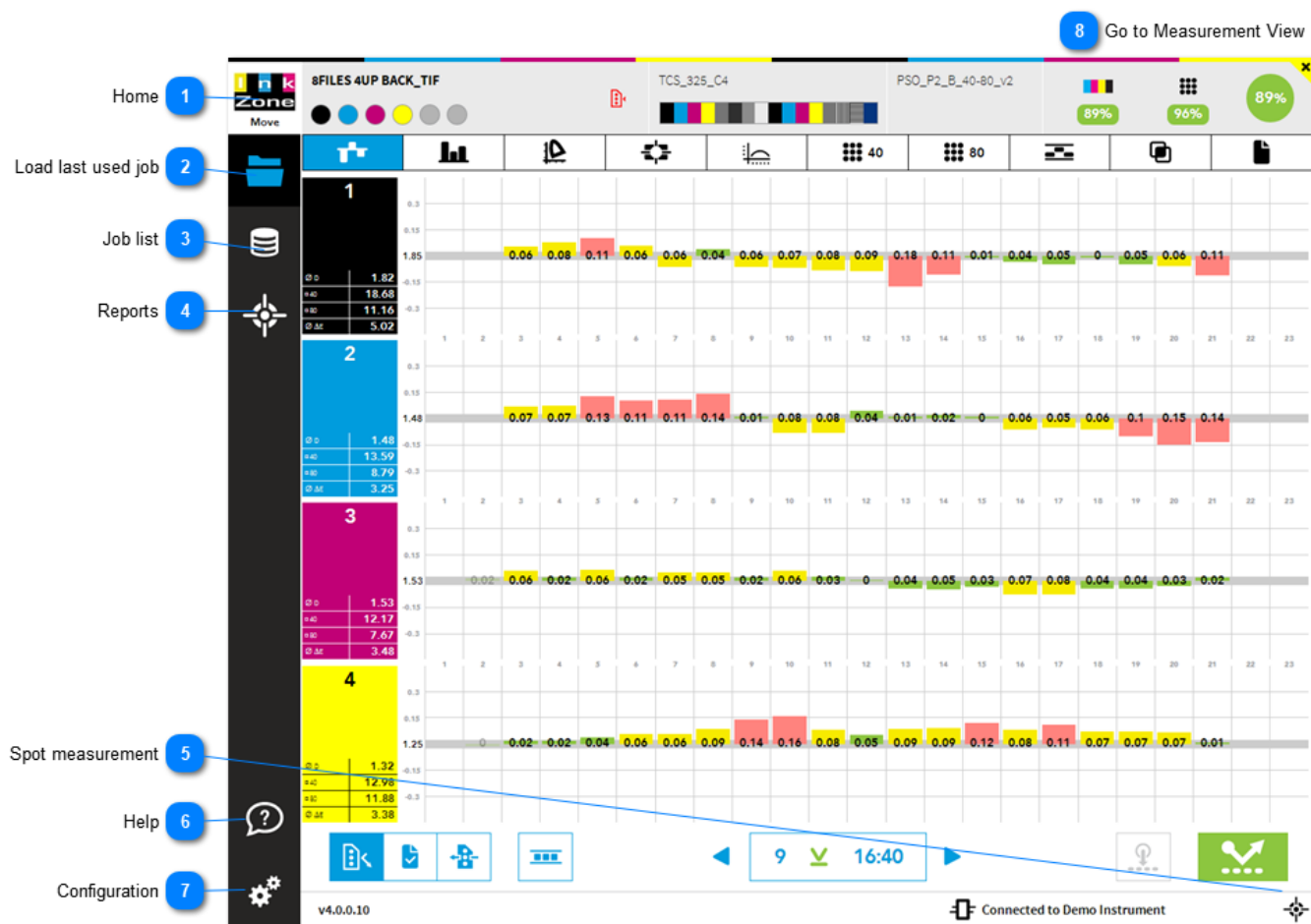
**19 Measure and color-control**

See chapter [1.1.15. Measure and Transfer Button](#)

**20 Ink Key Patch View**

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**

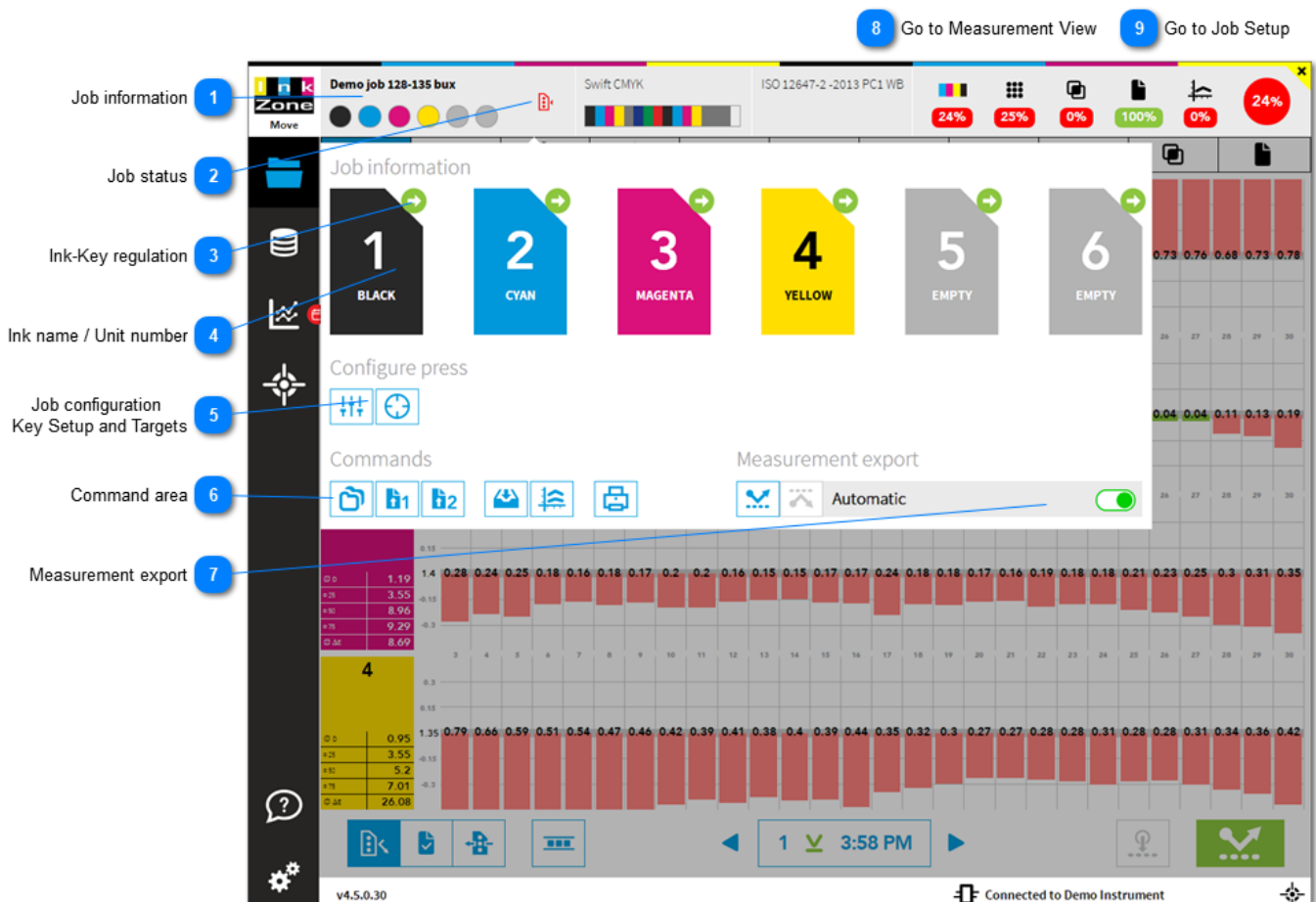
Opens up the software configuration page.

8

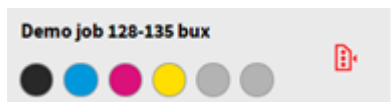
**Go to Measurement View**

[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.

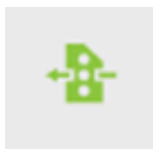
#### 2 Job status



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

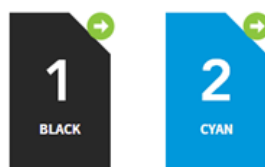
### Ink-Key regulation



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



## Commands



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

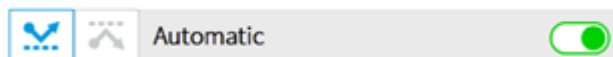


Creates an ink-preset linearization job in  
InkZonePerfect

7

### Measurement export

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

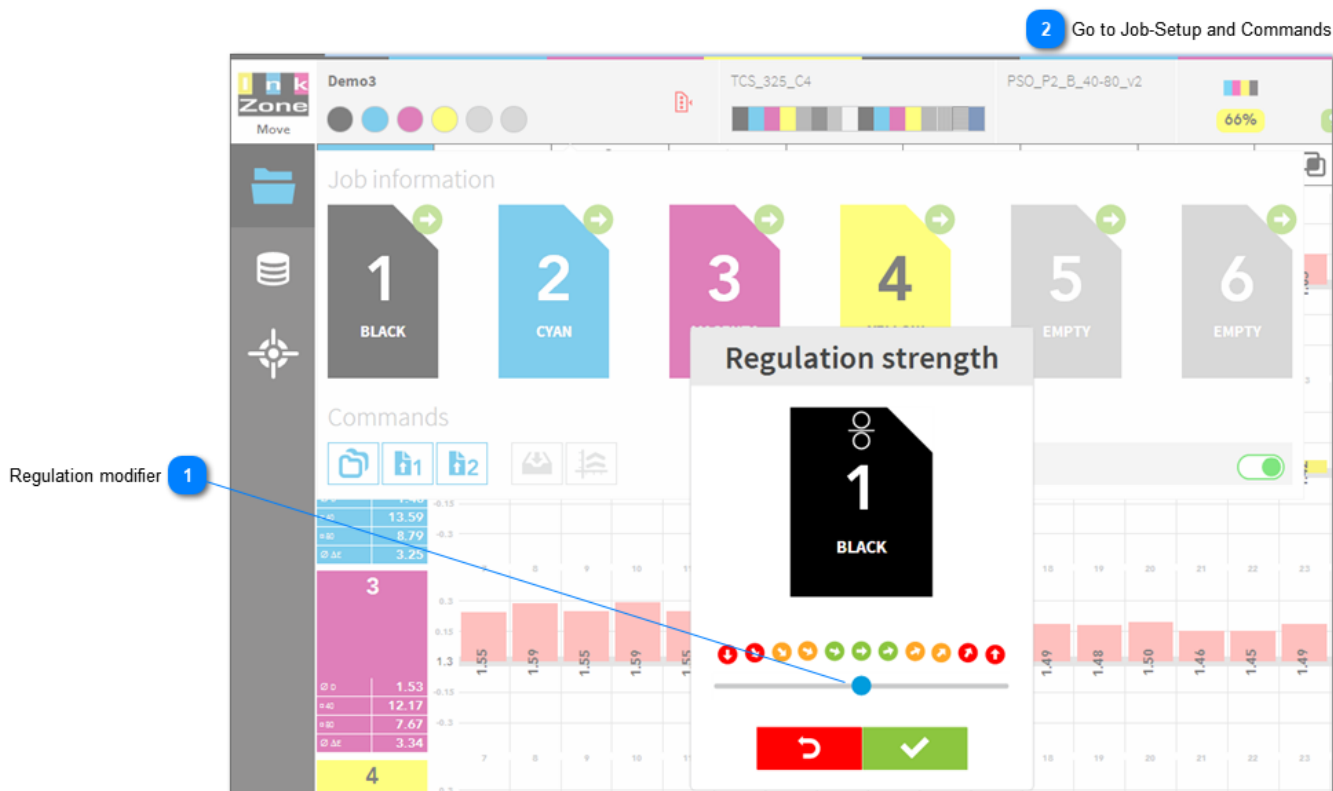
[1.1. Measurement view](#)



Go to Job Setup

[1.3.2. New Job](#)

## 1.1.1.1.1. Ink-key Regulation Modifier



1

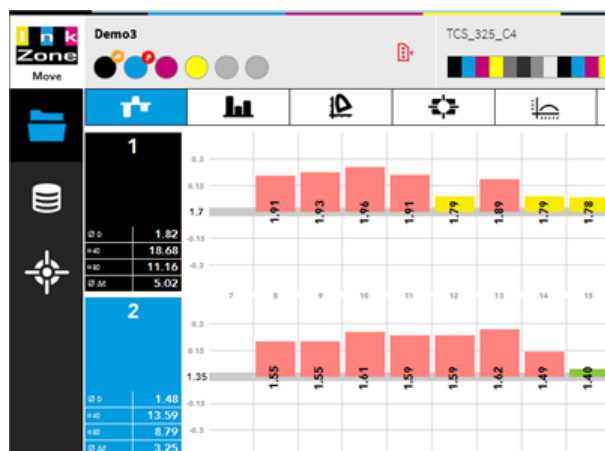
## Regulation modifier



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

8 Go to Job Setup and Commands

Select targets from existing job

va

vatel europe

1/12/18 4:22 PM

1

2

3

4

5

6

7

vatel europe

1

2

3

4

5

6

BLACK

CYAN

MAGENTA

YELLOW

EMPTY

EMPTY

Target 1.8

Target 1.4

Target 1.4

Target 1.3

Target 0

Target 0

New 1.7

New 1.4

New 1.3

New 1.2

N/A

N/A

N/A

N/A

1

Search job

va

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

2

Job list

vatel europe

1/12/18 4:22 PM

Job list with all matching jobs to the search criteria

3

Select job

1/12/18 4:22 PM

Select the job with the green button

4

**Current setting**

Target	1.8
--------	-----

Current target density

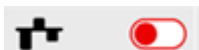
5

**From selected job**

New	1.7
-----	-----

Target density from selected job

6

**Target density**

Enable new target density for this unit

7

**Ink-key mask**

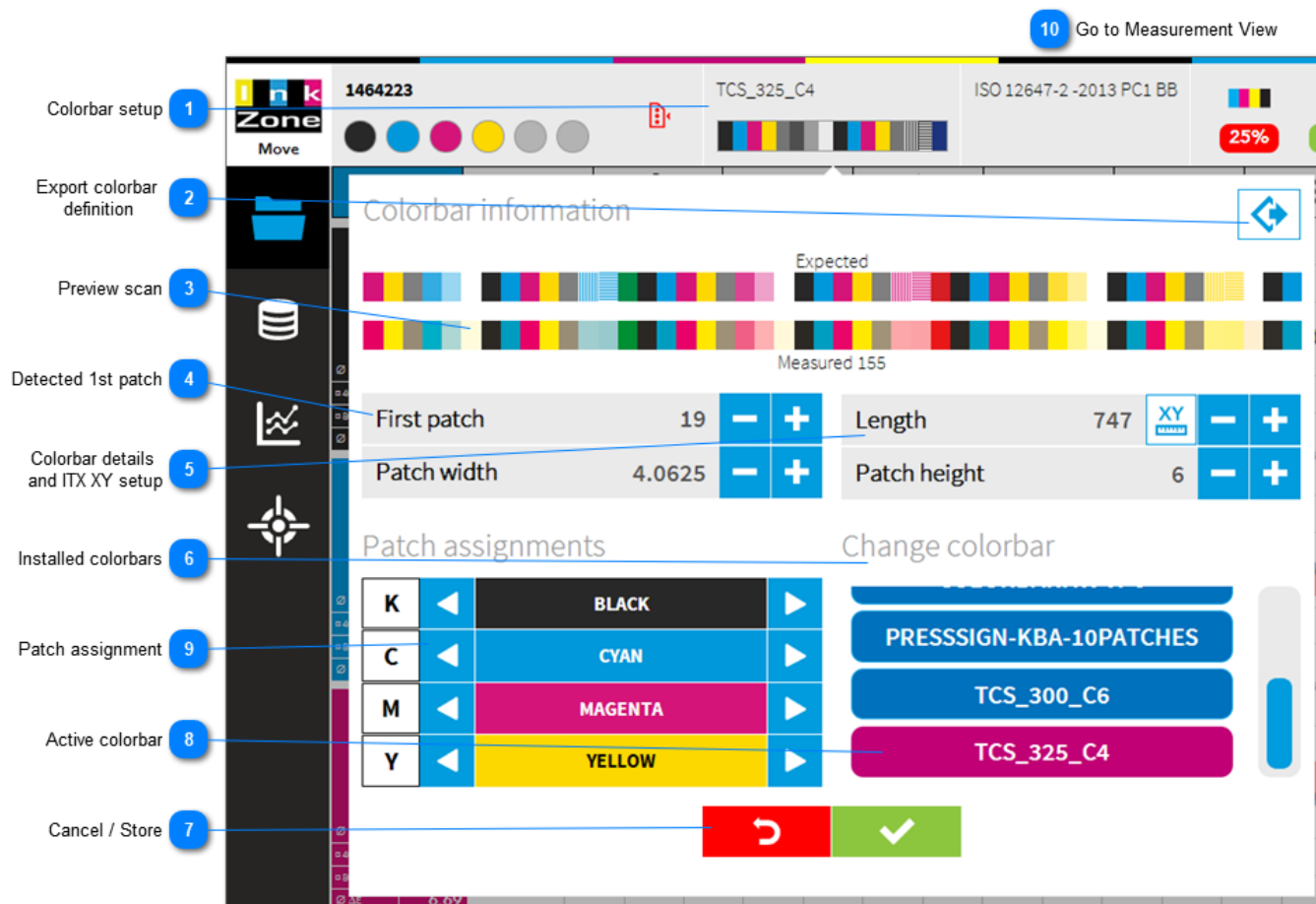
Enable ink-key mask for this unit

8

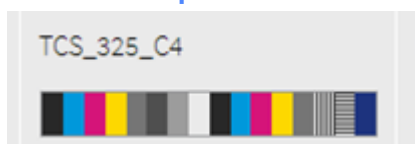
**Go to Job Setup and Commands**

[1.1.1.1. Job Setup Information](#)

## 1.1.1.2. Colorbar View



## 1 Colorbar setup



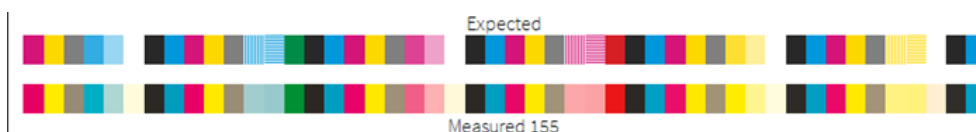
Click in the colorbar area for detailed information on the measured colorbar and to change the setup.

## 2 Export colorbar definition



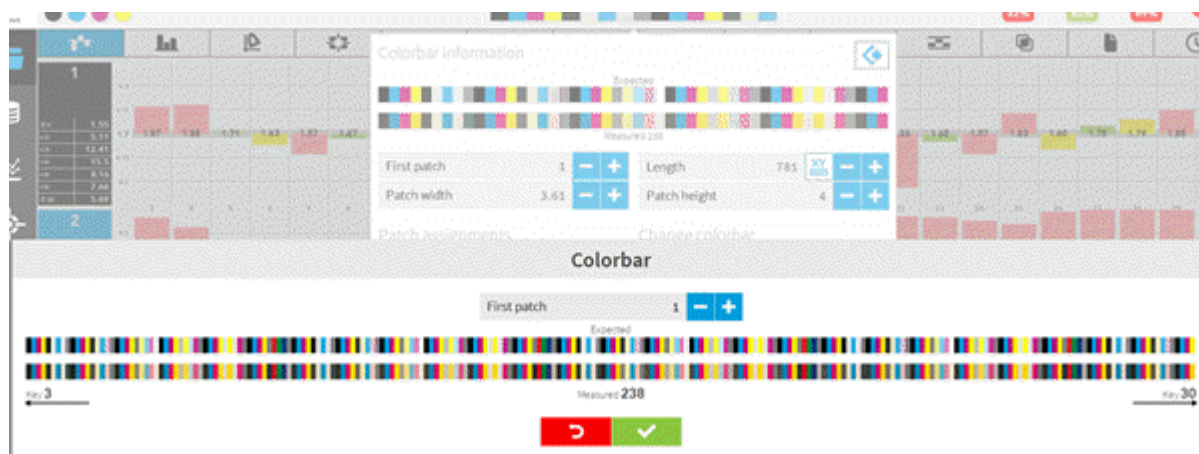
Export the current selected colorbar as a colorbar definition file CBF.

## 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**

First patch 19 - +

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**

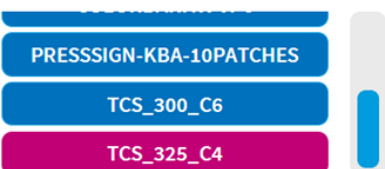
Length 747 XY - +

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**

Change colorbar



Shows all colorbars within InkZoneMove

7

**Cancel / Store**

Accept or discard changes

8

**Active colorbar**

TCS\_325\_C4

Currently selected colorbar

9

**Patch assignment**

## Patch assignments

K	◀	BLACK	▶
C	◀	CYAN	▶
M	◀	MAGENTA	▶
Y	◀	YELLOW	▶

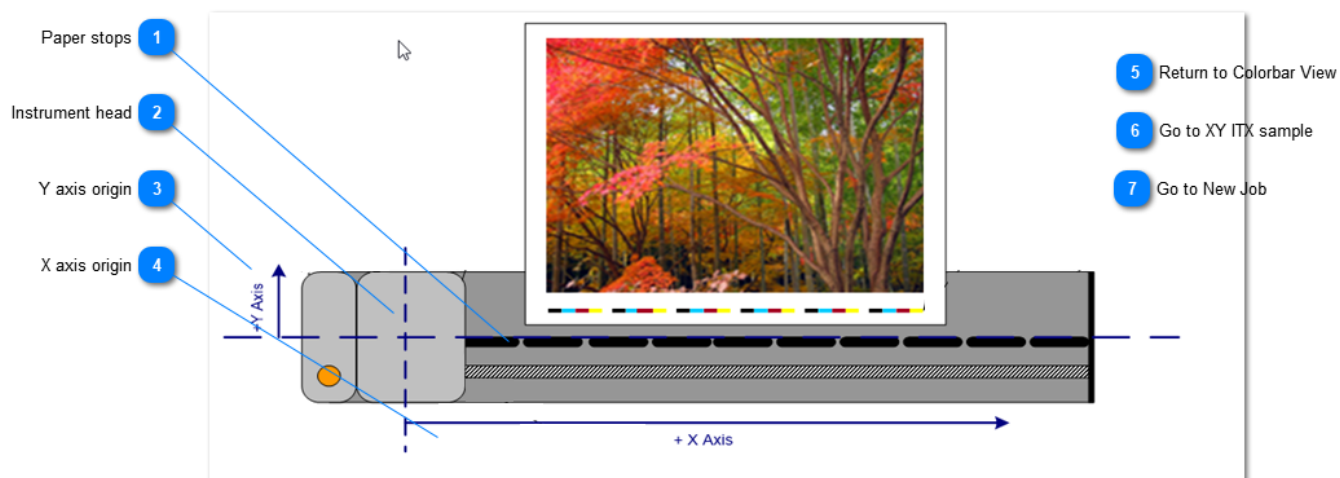
Printed color to colorbar patch assignment. Change with left and right arrow.

10

**Go to Measurement View**[1.1. Measurement View](#)



### 1.1.1.2.1. IntelliTrax XY coordinates



1

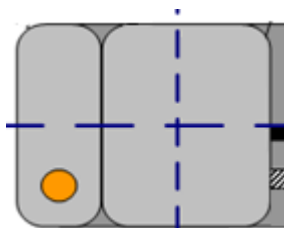
#### Paper stops



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

2

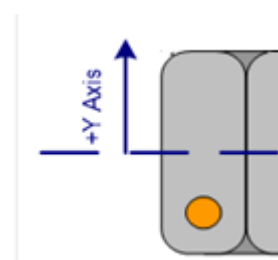
#### Instrument head



IntelliTrax head in idle position.

3

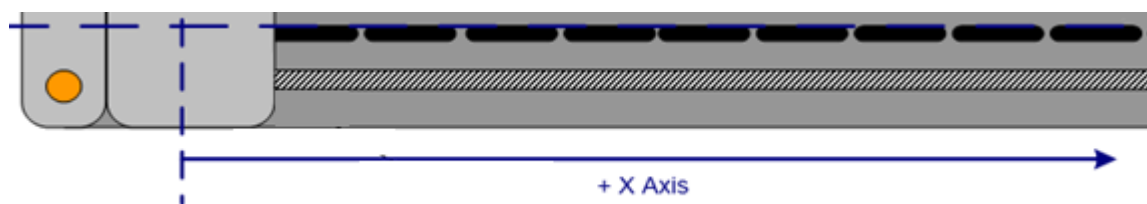
#### Y axis origin



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**

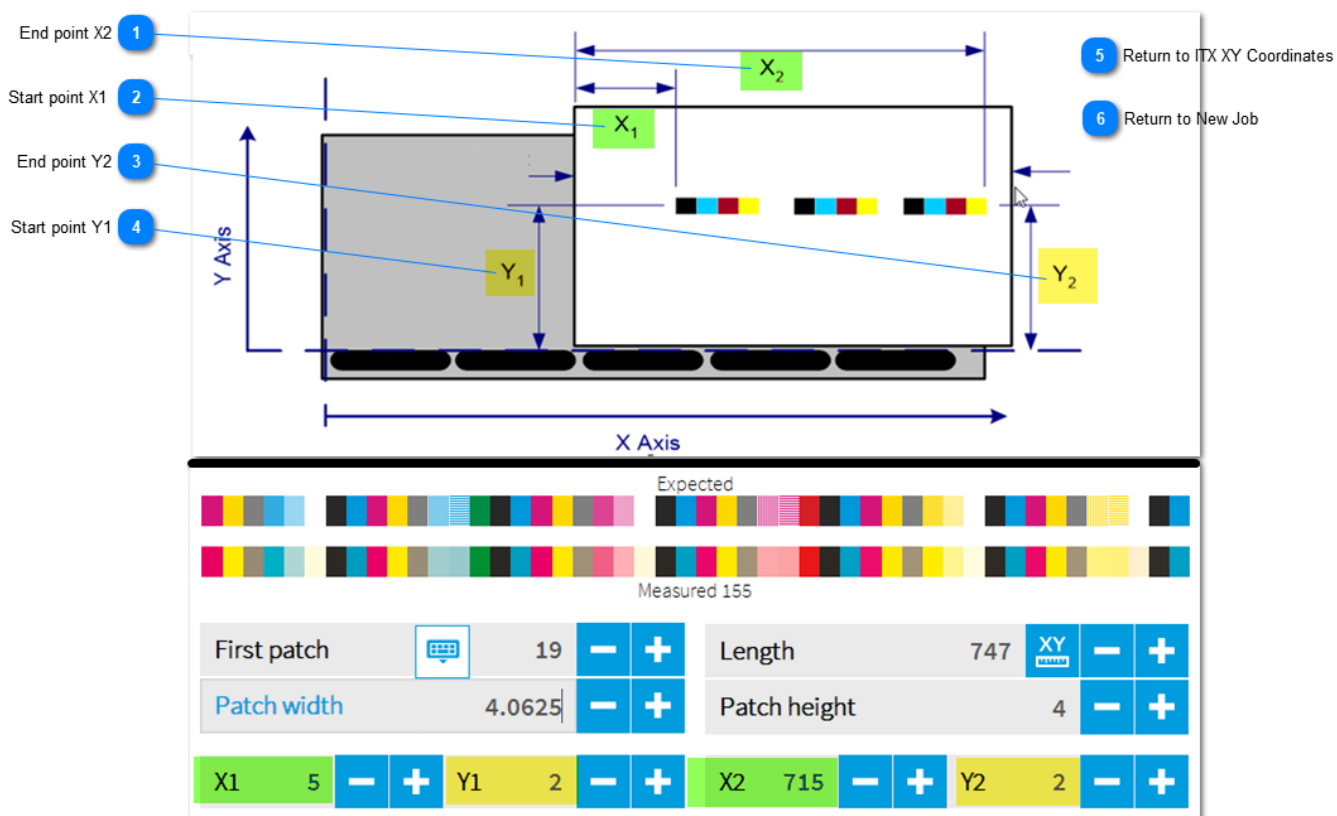
[1.1.1.2.2. IntelliTrax XY sample](#)

7

**Go to New Job**

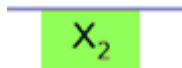
[1.3.2. New Job](#)

### 1.1.1.2.2. IntelliTrax XY sample



1

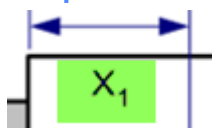
End point X2



$X_2$  is the distance from the near sheet edge to the **end** of the color patch.

2

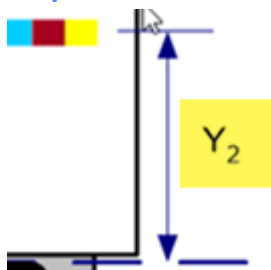
Start point X1



$X_1$  is the distance from the near sheet edge to the **beginning** of the color bar.

3

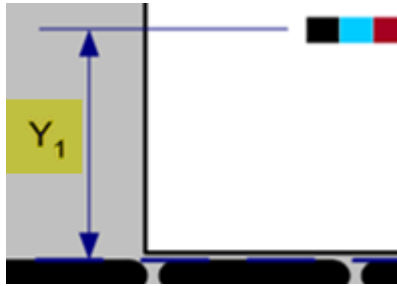
End point Y2



$Y_2$  is the distance from the paper stop to the **center** of the last color patch.

4

Start point Y1



$Y_1$  is the distance from the paper stop to the **center** of the color bar.

5

#### Return to ITX XY Coordinates

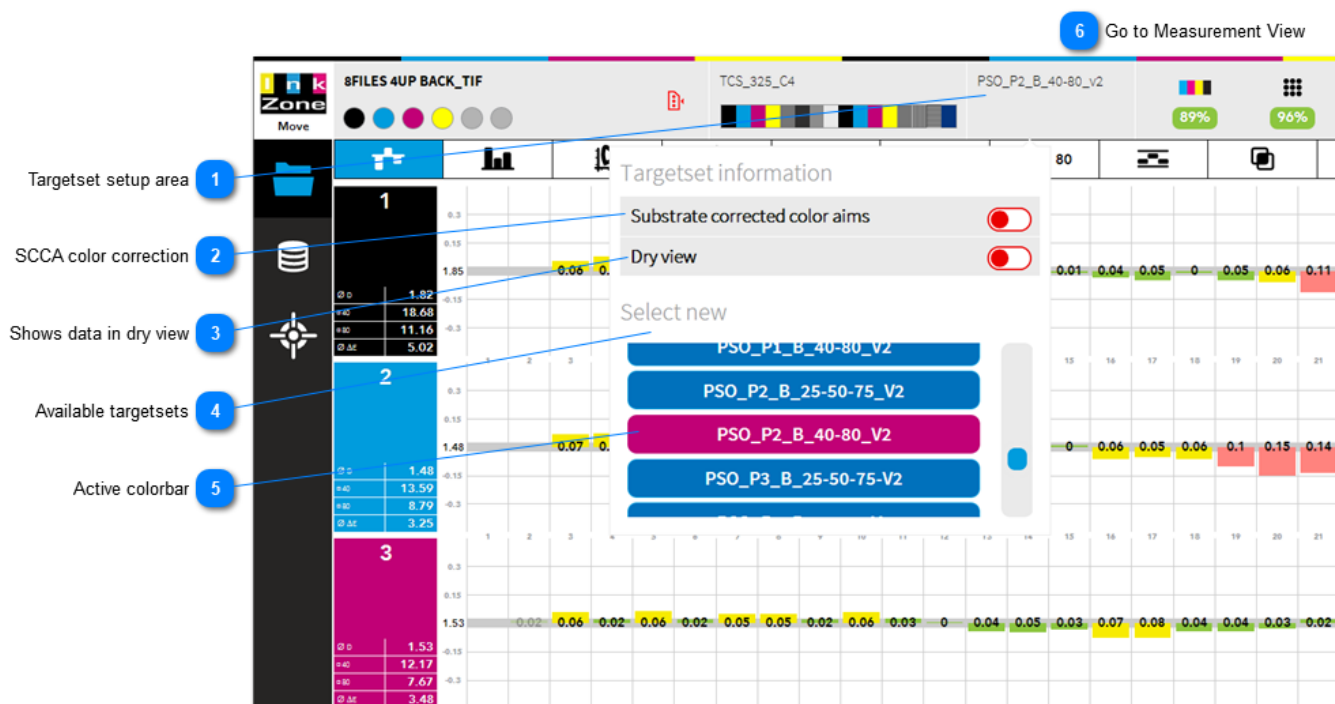
[1.1.1.2.1. IntelliTrax XY coordinates](#)

6

#### Return to New Job

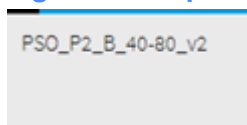
[1.3.2. New Job](#)

## 1.1.1.3. Target-Setup View



1

## Targetset setup area



Currently selected targetset

2

## SCCA color correction



Activate SCCA, **Substrate Corrected Colorimetric Aims**. 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

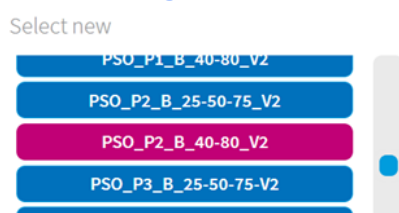
## Shows data in dry view



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

PSO\_P2\_B\_40-80\_V2

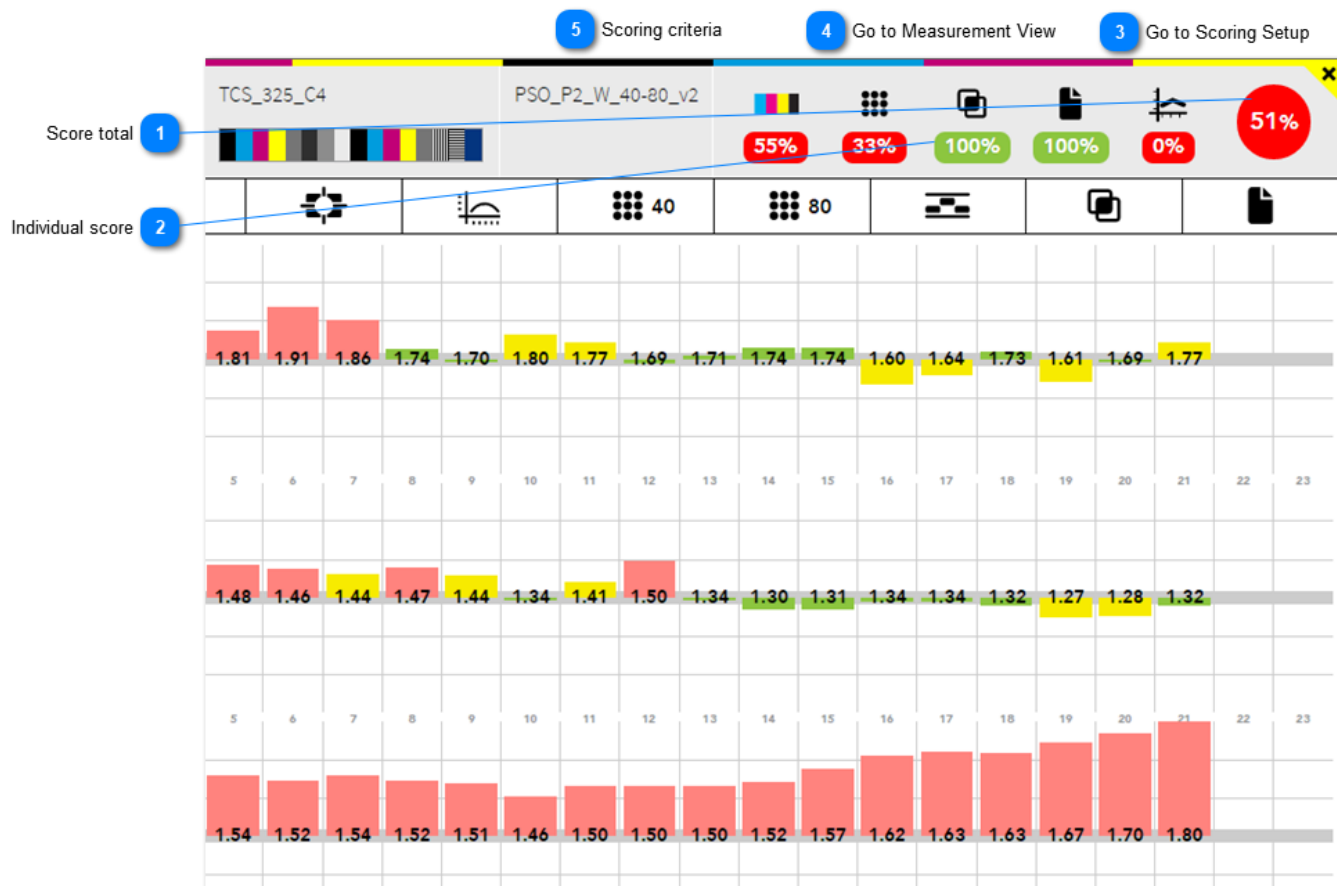
Currently selected targetset.

6

Go to Measurement View

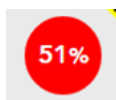
[1.1. Measurement View](#)

## 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](#)

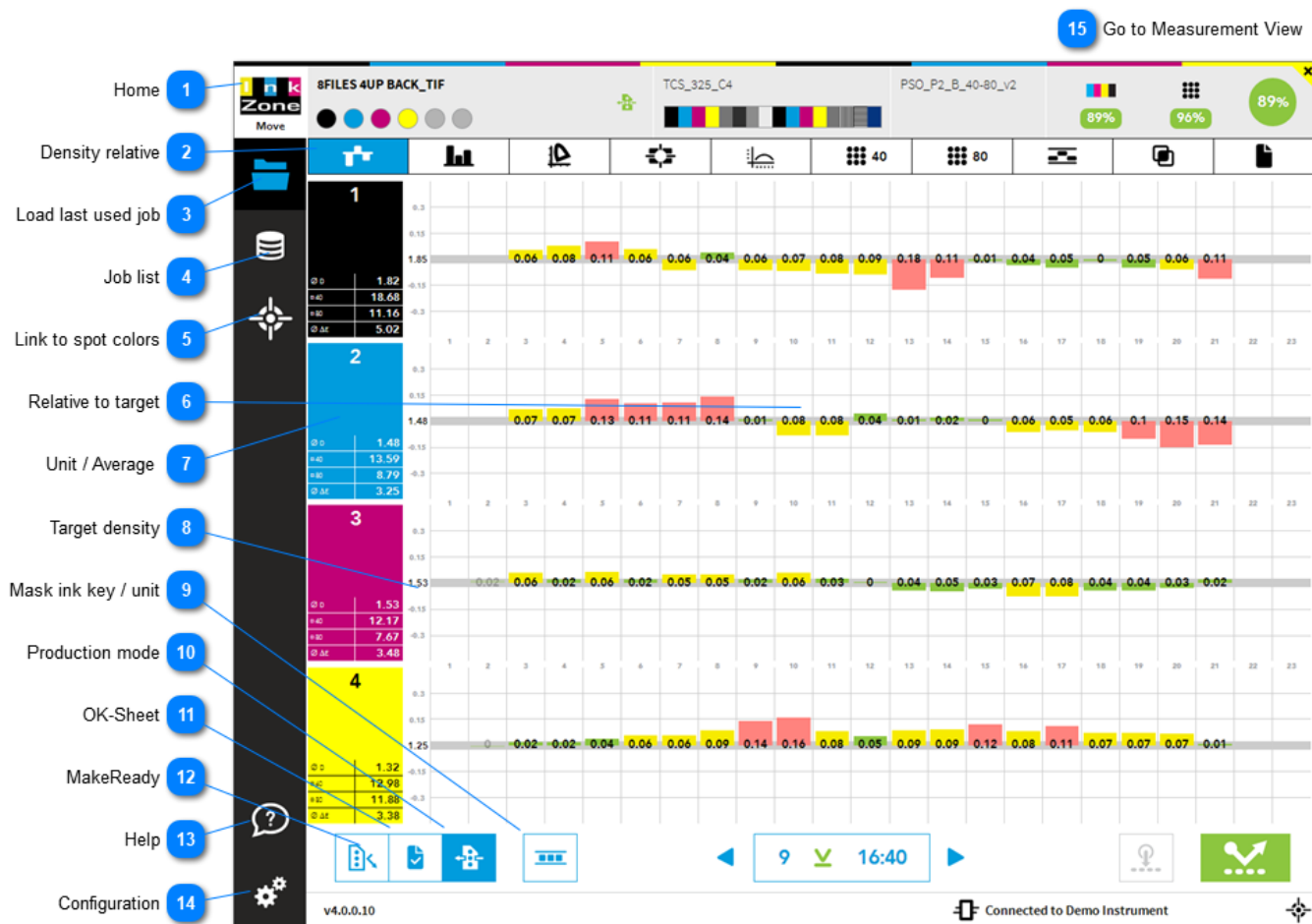


## Scoring criteria

[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



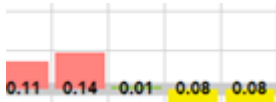
Loads the job list

## 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



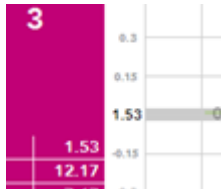
Shows average values.



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**

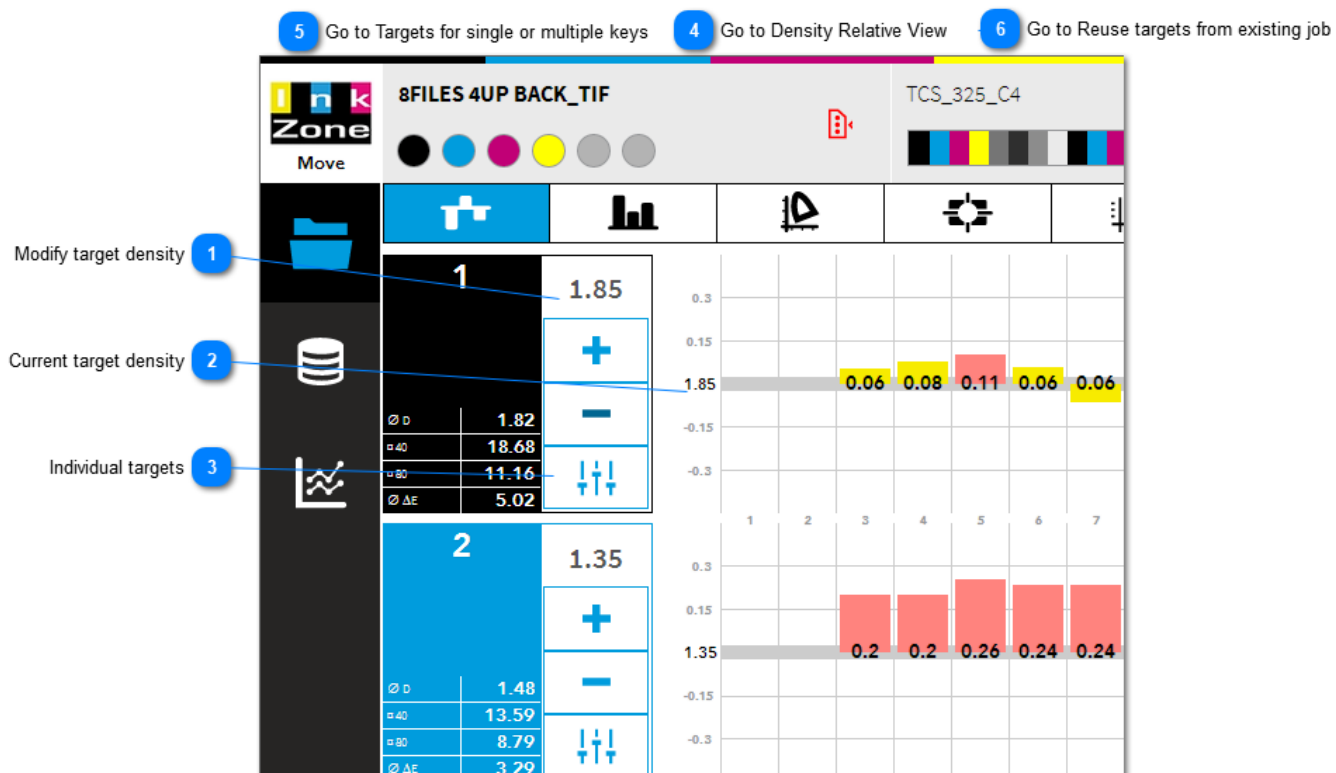
Open up the software configuration page

15

**Go to Measurement View**

[1.1.1. Measurement view](#)

## 1.1.2.1. Target Density



1

## Modify target density

1.85

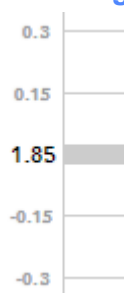
+

-

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

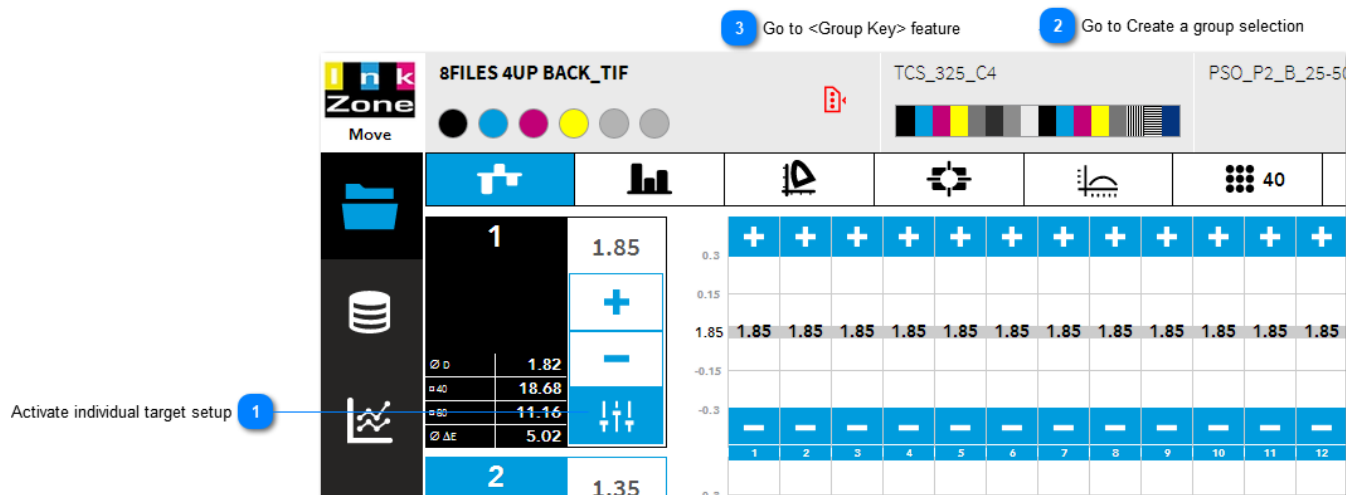
[1.1.2.2. Change Target Density for Single or Grouped Keys](#)

6

Go to Reuse targets from existing job

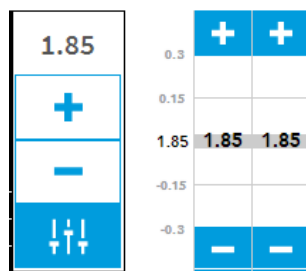
[1.1.1.1.2. Reuse targets from existing Job](#)

### 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

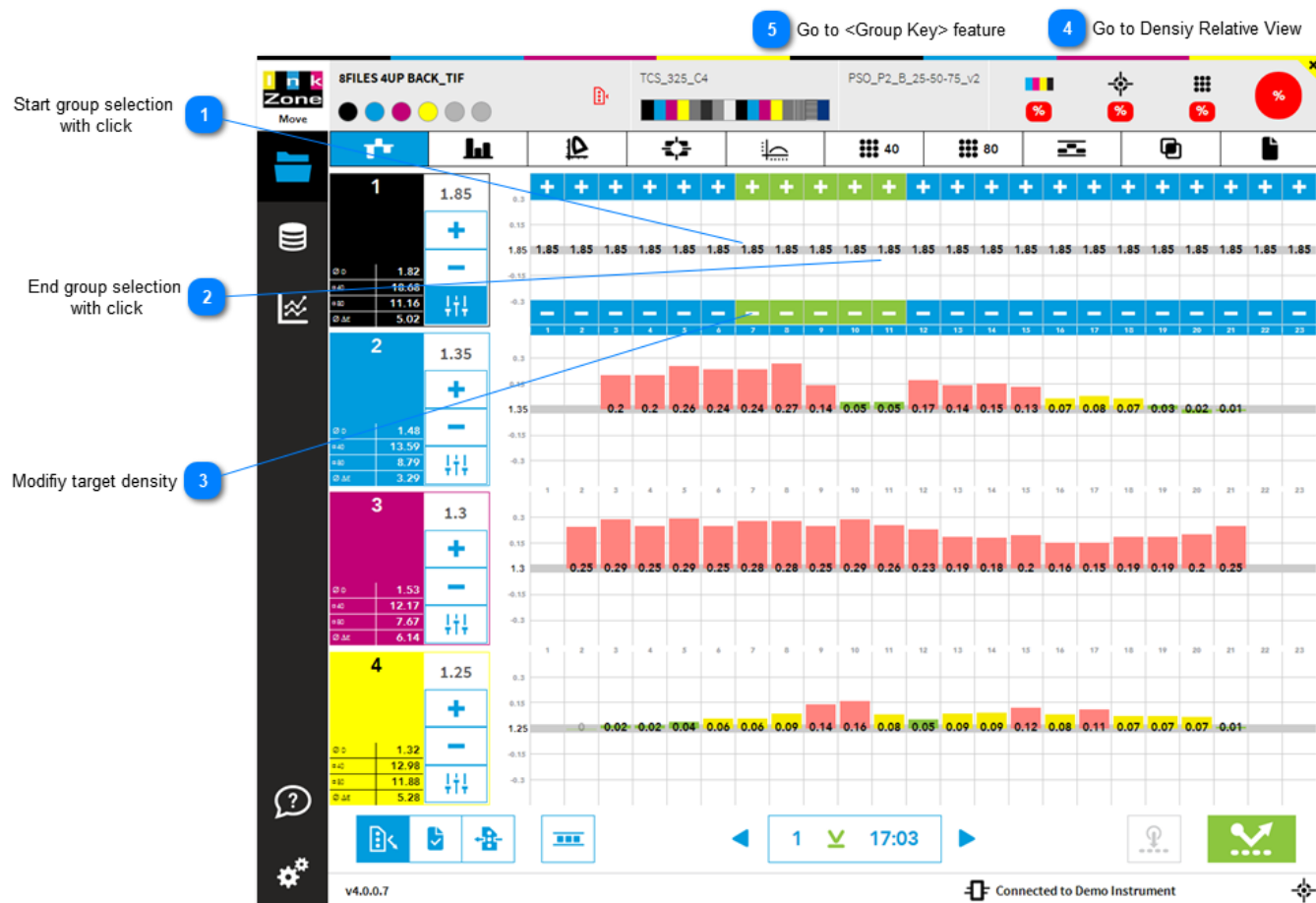
[1.1.2.3. Group Selection](#)

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

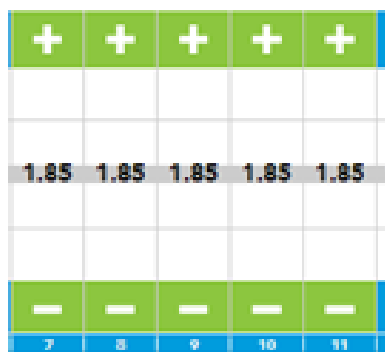


#### 1 Start group selection with click



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

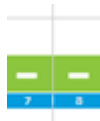
#### 2 End group selection with click



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

### Modify target density



Change the target density with the plus and minus button

4

### Go to Density Relative View

[1.1.1. Density Relative View](#)

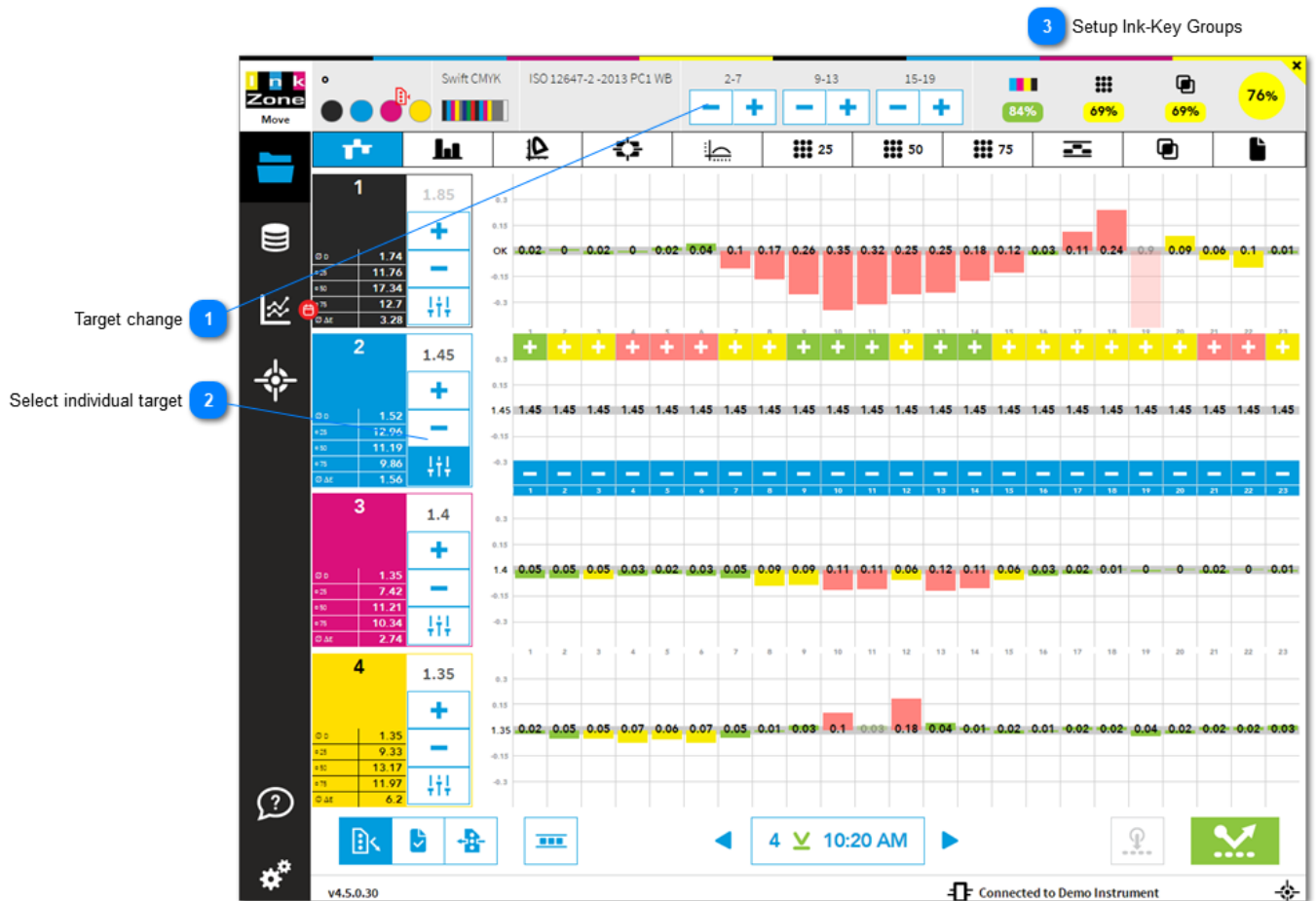
5

### 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



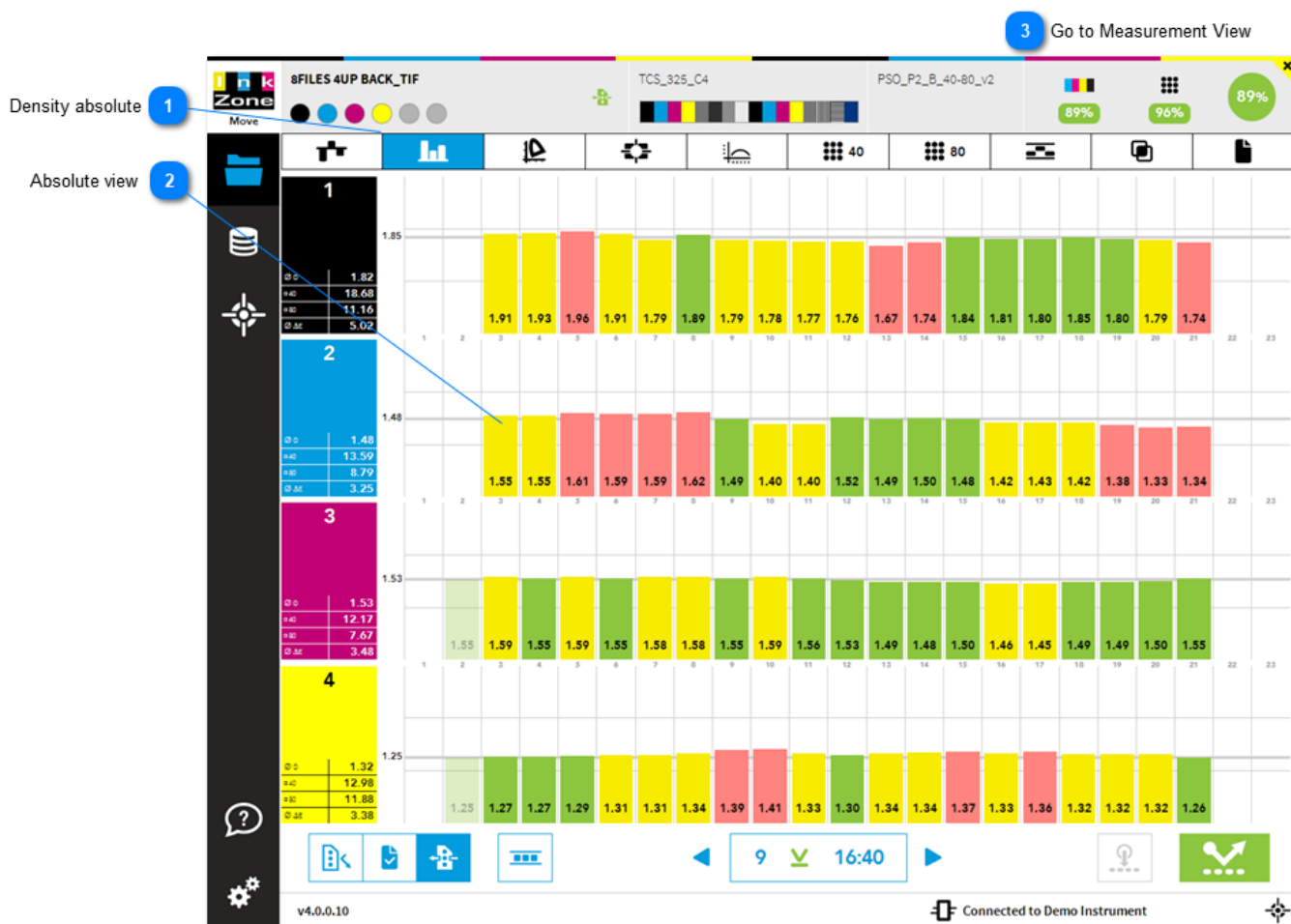
Select the icon individual density target and apply target density changes to a range of keys through the +/- buttons from (1)

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

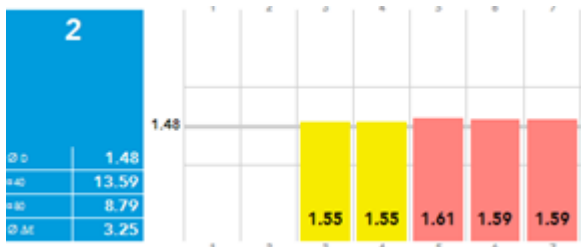
#### Density absolute



Displays the density relative view

2

#### Absolute view



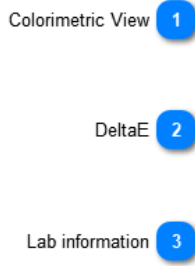
Shows measured density in absolute numbers

3

#### Go to Measurement View

[1.1. Measurement view](#)

4 Go to Measurement View



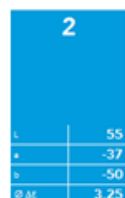
## 1



2



3



Shows Lab target and average DeltaE

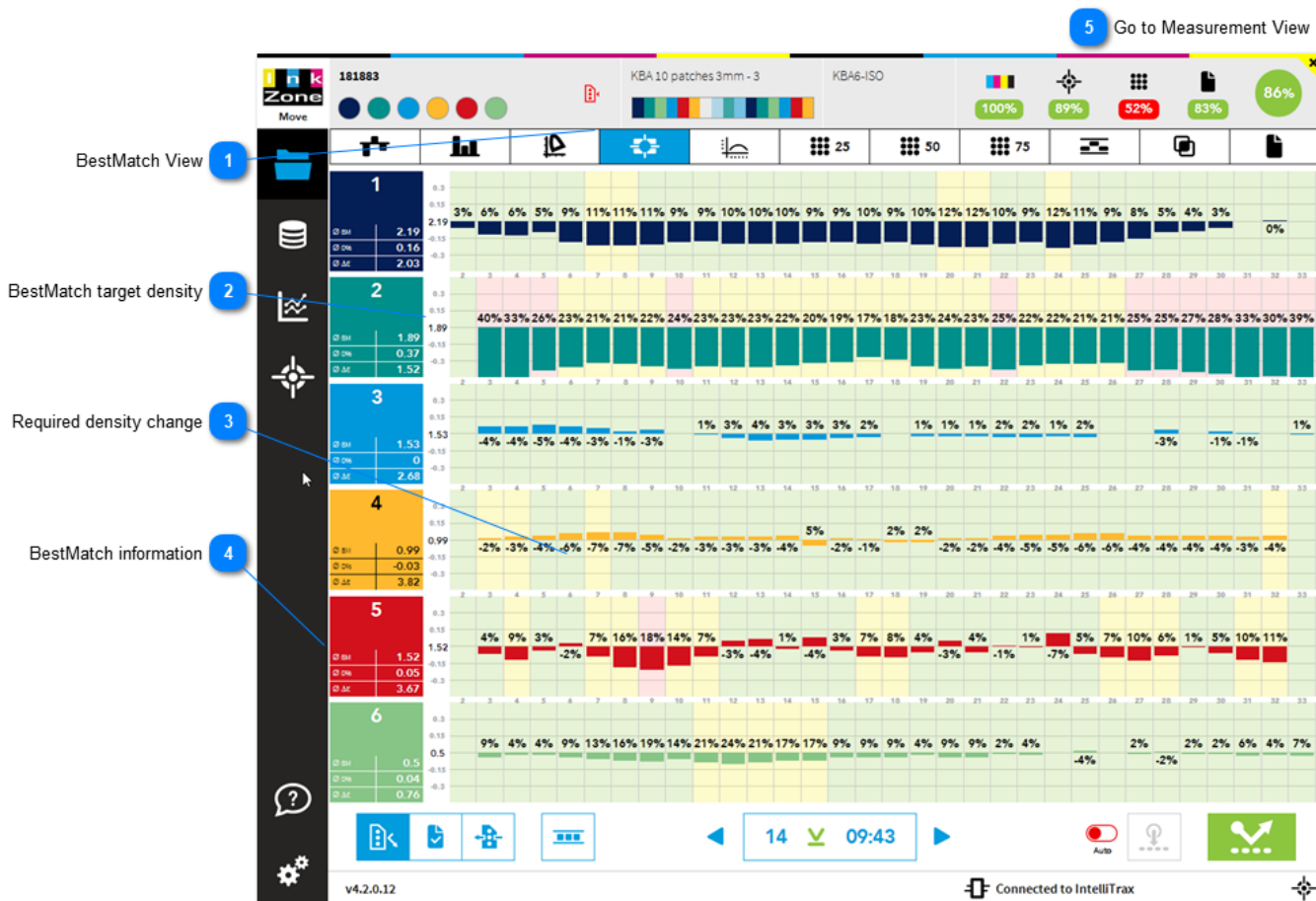


**Go to Measurement View**

[1.1. Measurement view](#)

### 1.1.5. BestMatch View

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



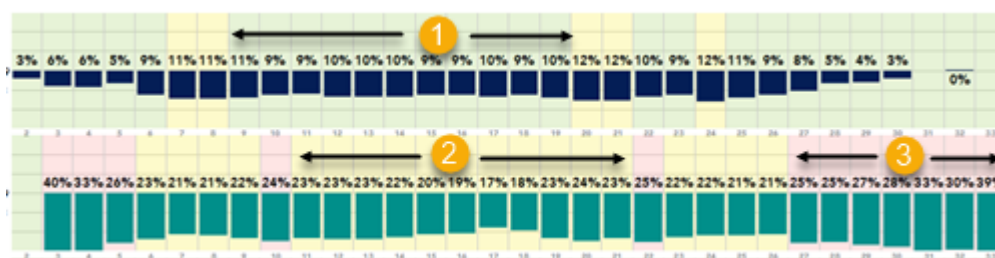
## BestMatch View



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

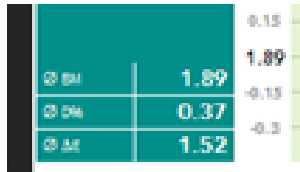
Background indicator:

- 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

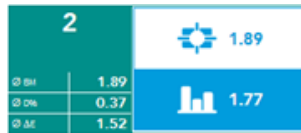


## 2

### BestMatch target density

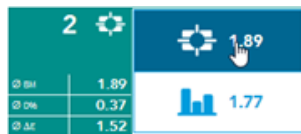


Shows current BestMatch target. In this sample 1.89.



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

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

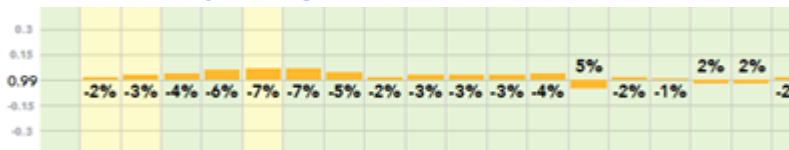


BestMatch **enabled** (=blue background and BM icon next to unit number shows up) and 1.89 is the BestMatch target

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

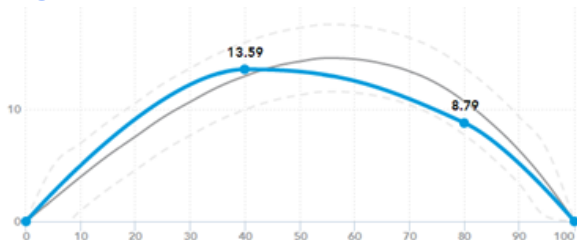
#### View Dotgain Curve



Displays dot gain curves

2

#### Dotgain curve



Dotgain curves:

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

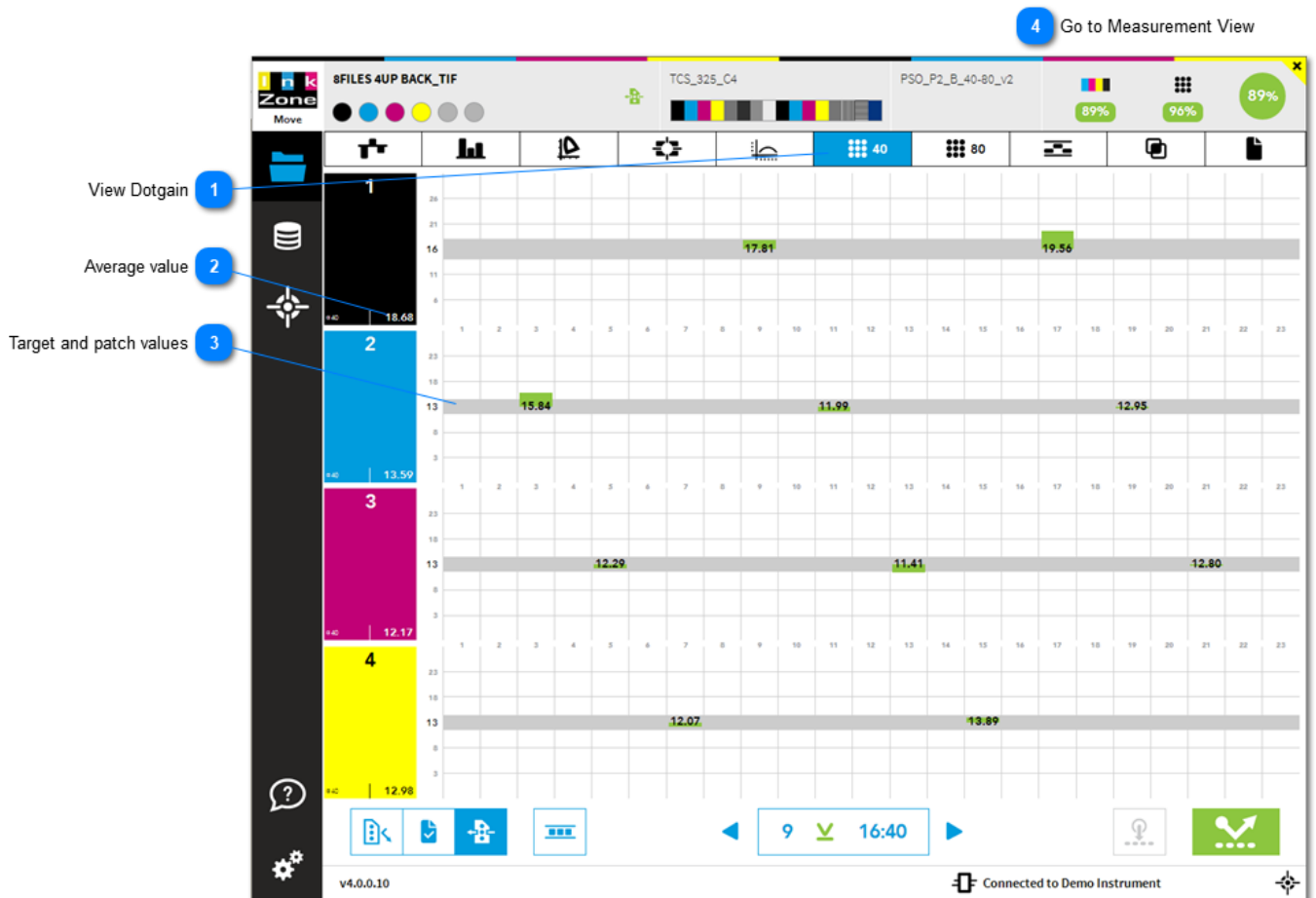


Go to Measurement View

[1.1. Measurement view](#)



### 1.1.7. Dotgain View



#### 1 View Dotgain

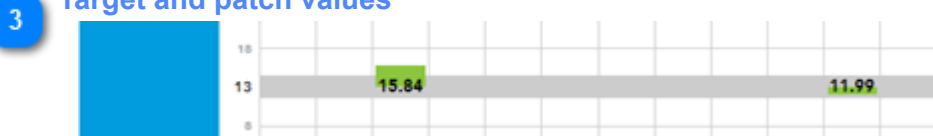


Displays dot gain on measured patches

#### 2 Average value



#### 3 Target and patch values





Go to Measurement View

[1.1. Measurement view](#)

### 1.1.8. Gray View



1

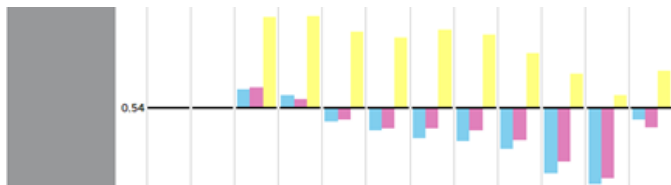
#### Grey view



Displays grey tone information

2

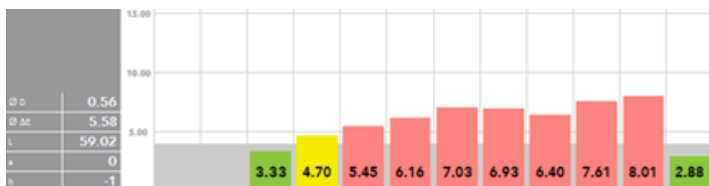
#### CMY Densities



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

$\Delta D$	0.56
$\Delta E$	5.58
L	59.02
a	0
b	-1

Average density

Average DeltaE

Target Lab

$\Delta D$	0.56
$\Delta E$	5.58
L	59.02
a	0
b	-1

5

### Density for CMY

CMY 50	0.84	0.59	0.58	0.56	0.55	0.55	0.55	0.53	0.51	0.49	0.54
--------	------	------	------	------	------	------	------	------	------	------	------

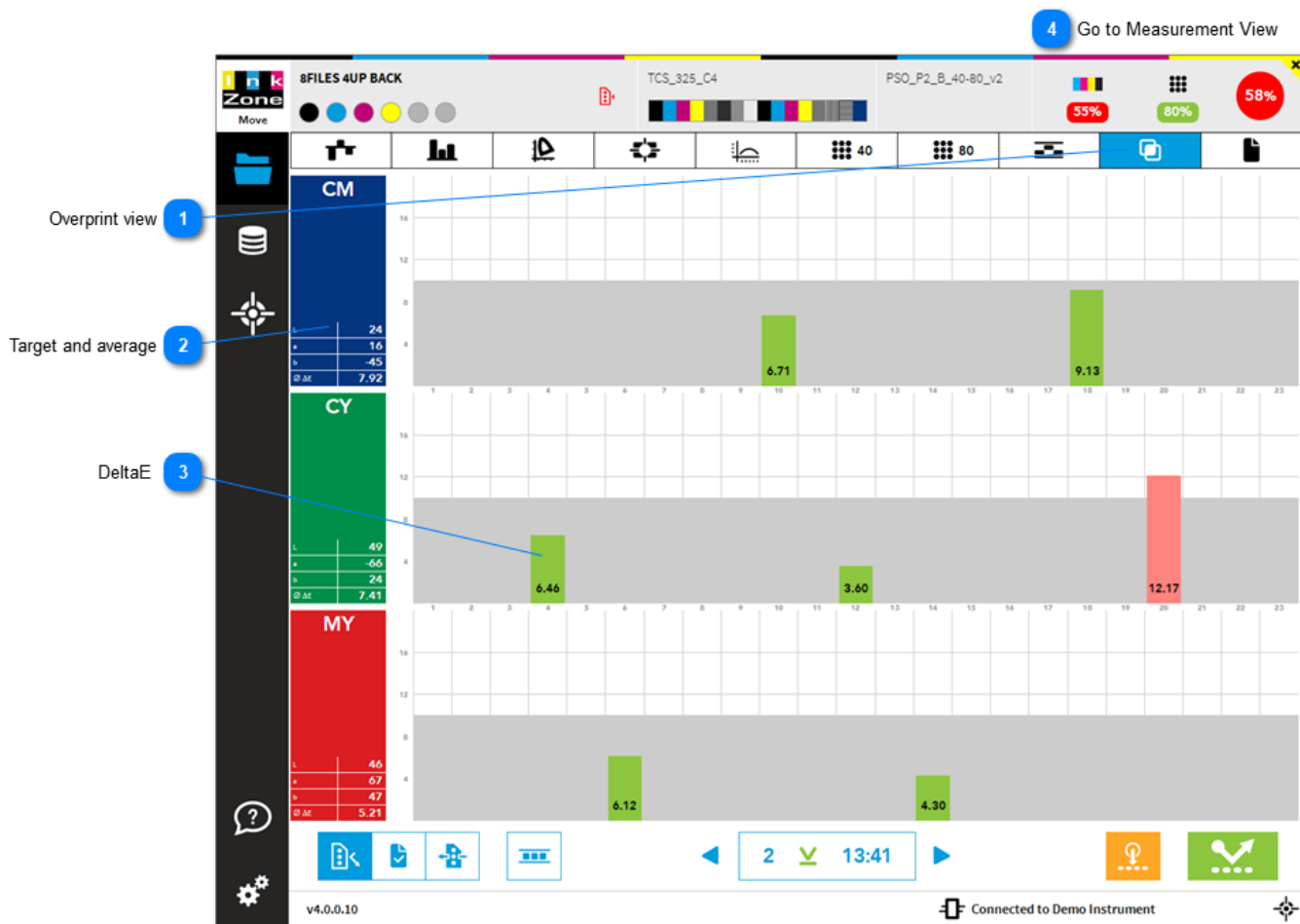
Averaged CMY density on each ink key

6

### Go to Measurement View

[1.1. Measurement view](#)

### 1.1.9. Overprint View



1

#### Overprint view



Displays overprint information

2

#### Target and average

L	24
a	16
b	-45
ΔE	7.92

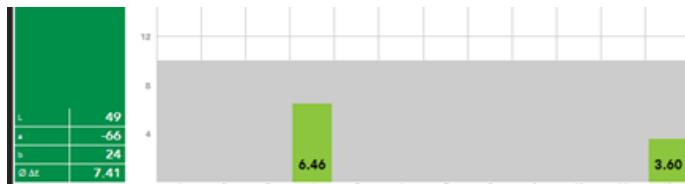
Target Lab

Average DeltaE

L	24
a	16
b	-45
ΔE	7.92

3

## DeltaE



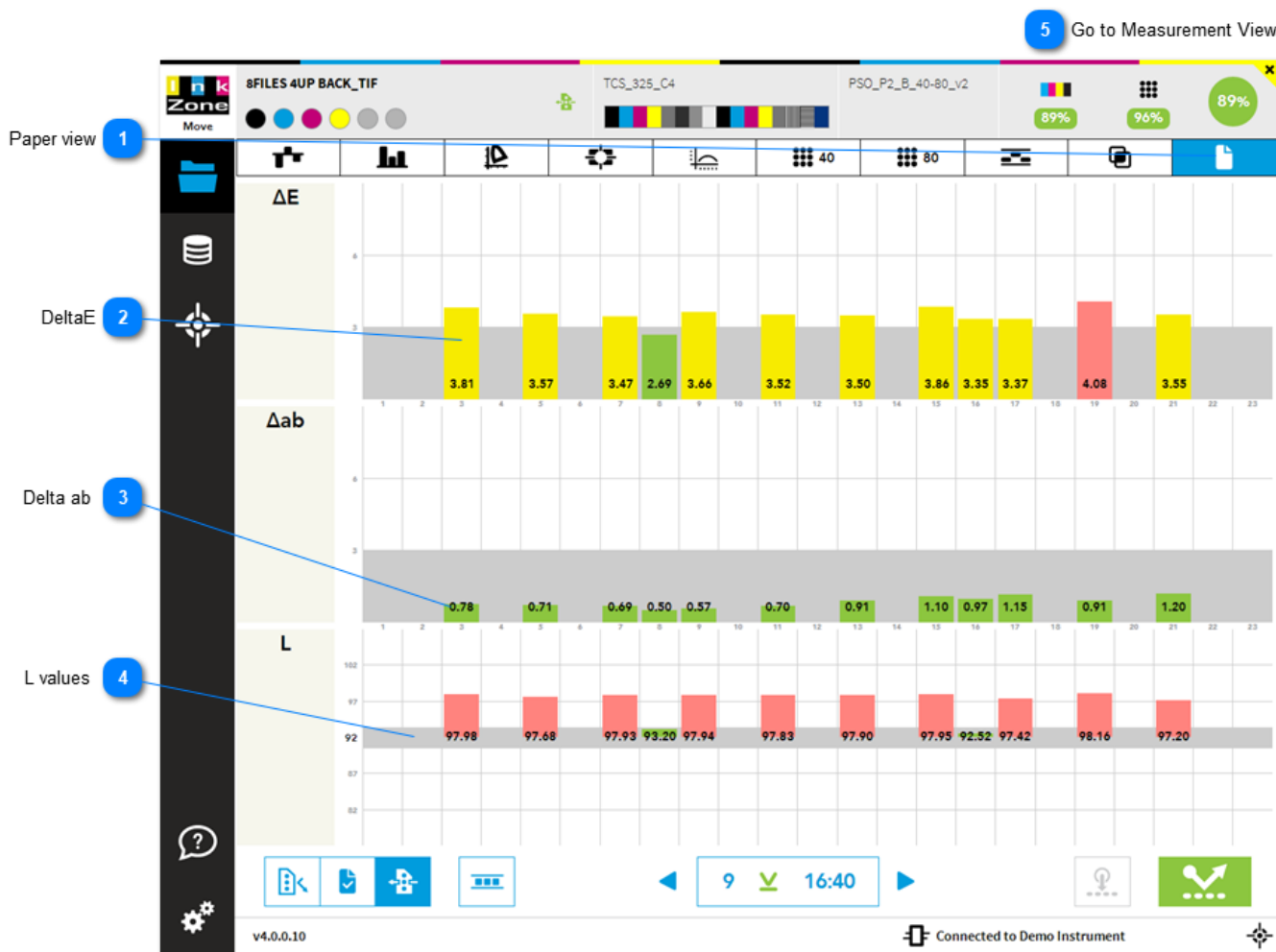
Shows DeltaE on the overprint patches

4

## Go to Measurement View

[1.1. Measurement view](#)

### 1.1.10. Paper View



1

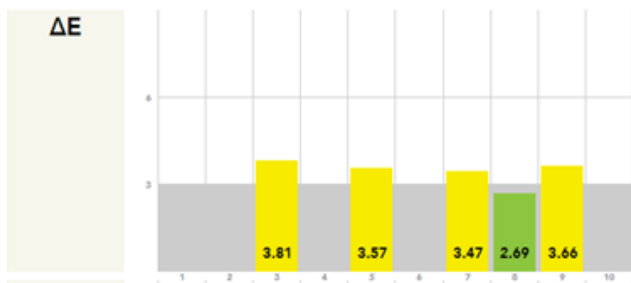
#### Paper view



Displays information on paper measurement

2

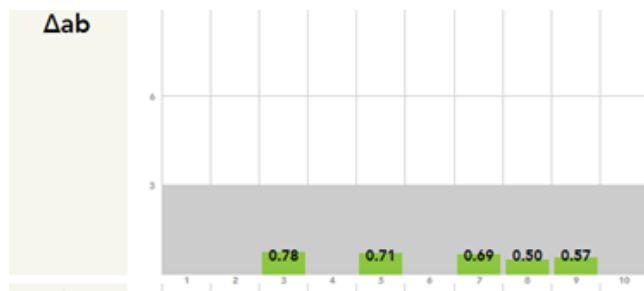
#### DeltaE



DeltaE values for paper patches

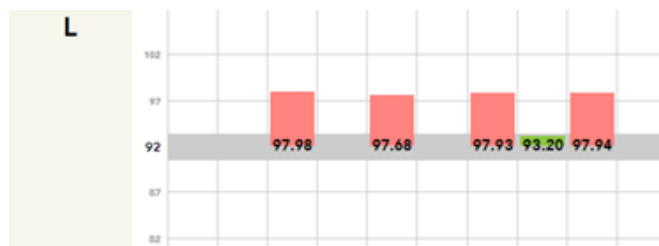
3

#### Delta ab



Delta ab values for paper patches

#### 4 L values



L value for paper patches

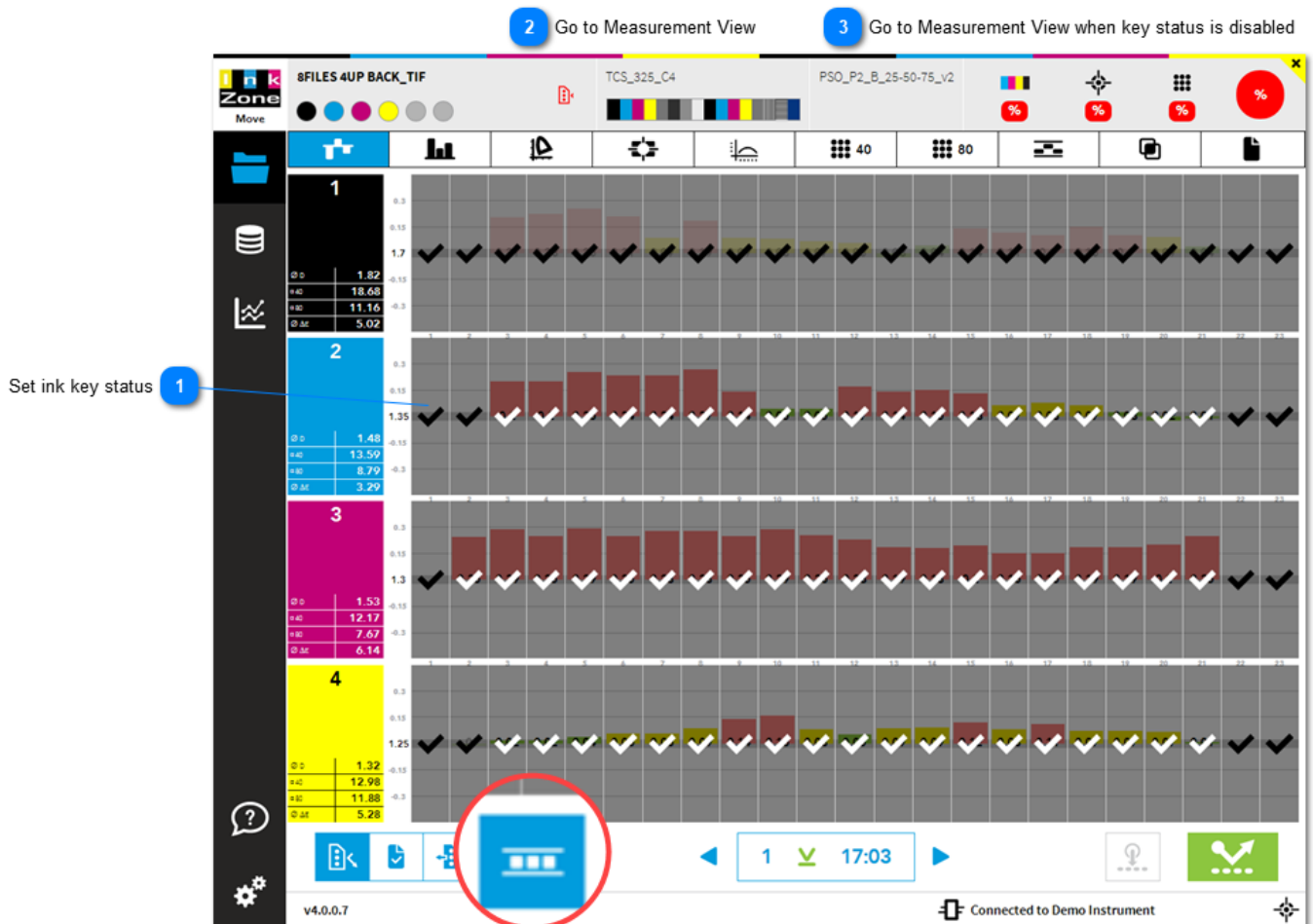
#### 5 Go to Measurement View

[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

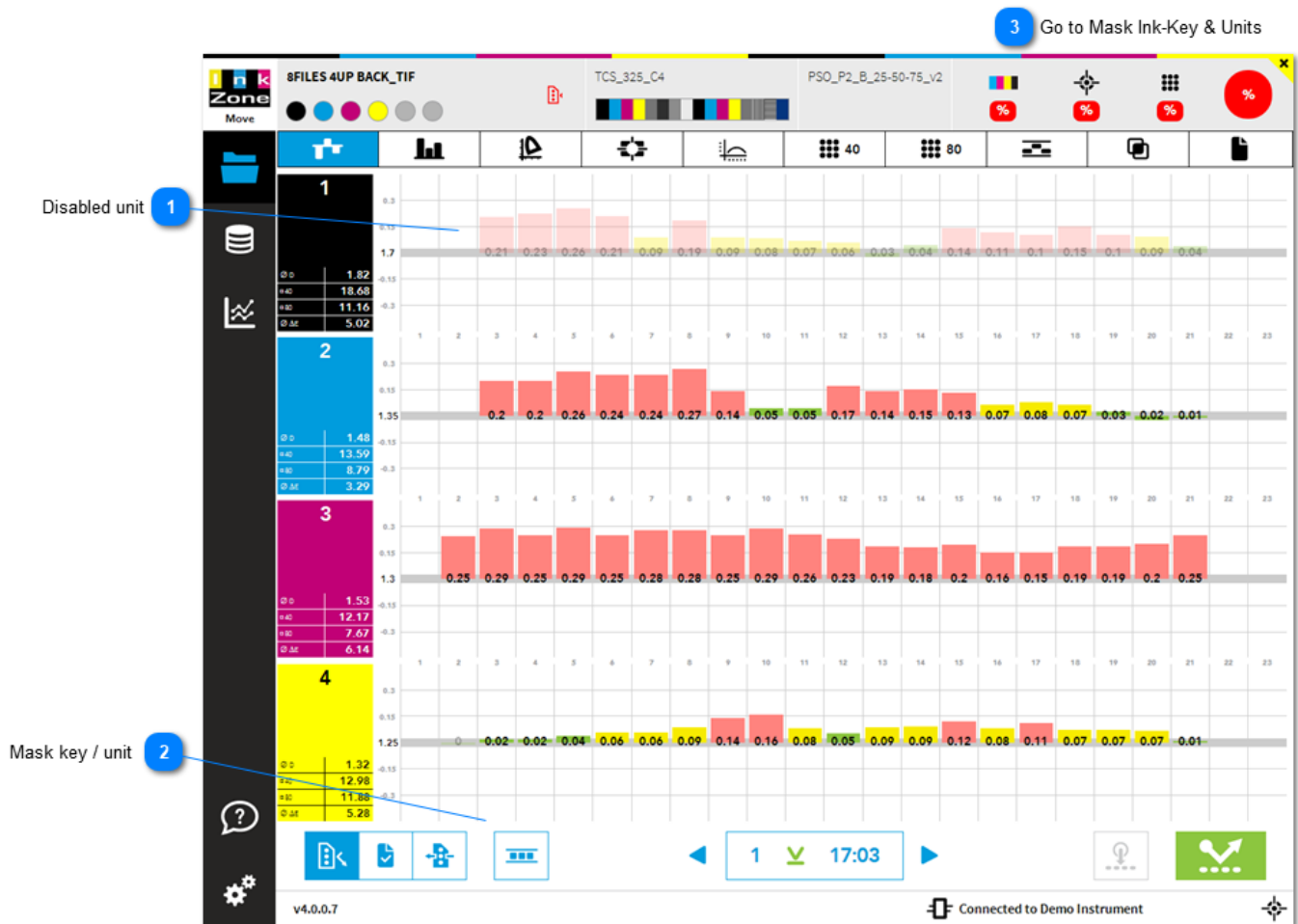
[1.1. Measurement view](#)

3

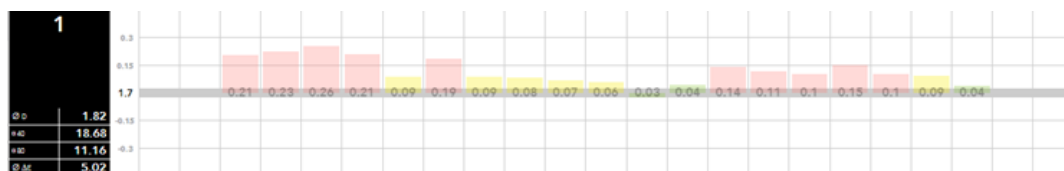
#### Go to Measurement View when key status is disabled

[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

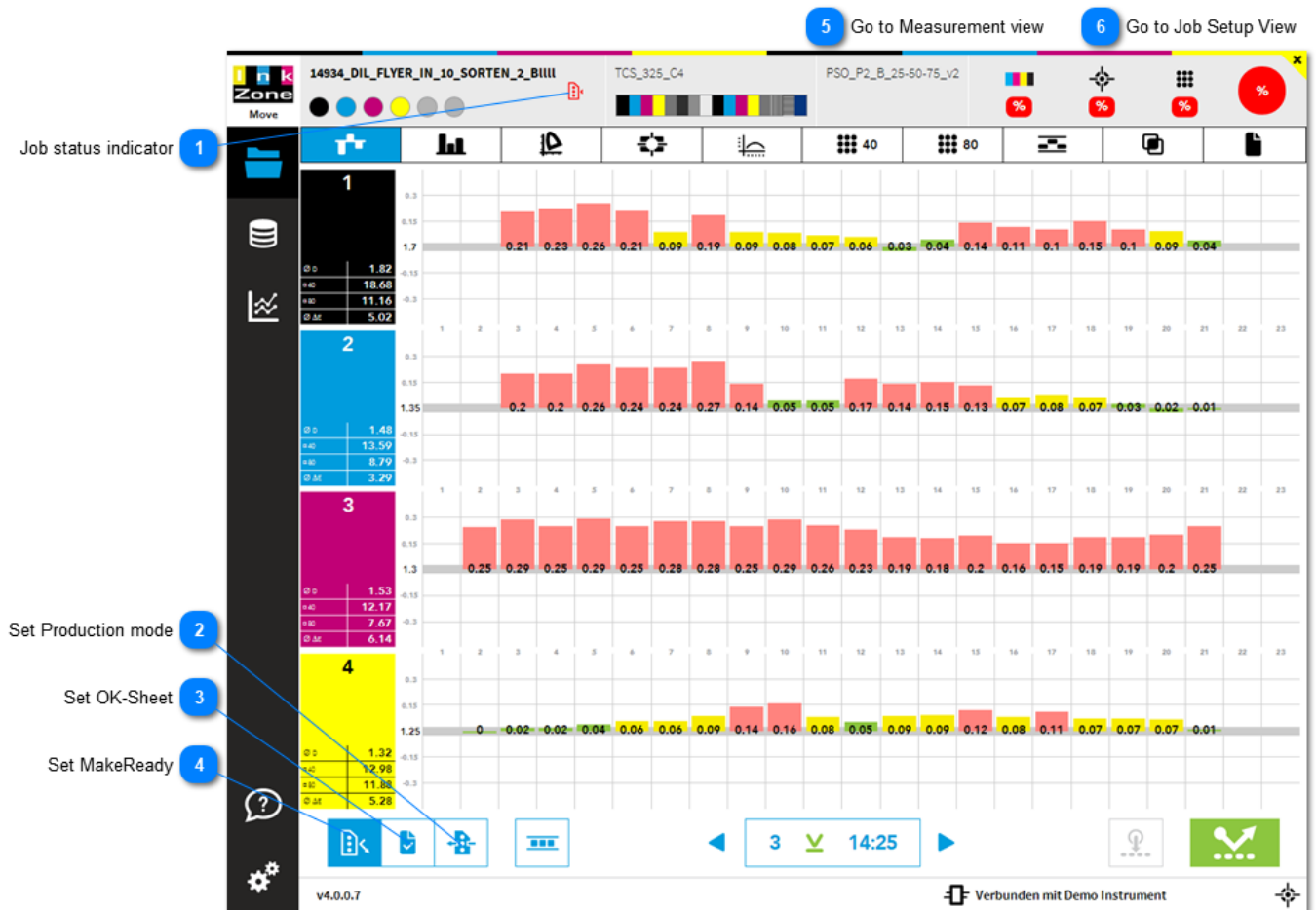


Mask from here key/s and unit/s  
See here [1.1.10. Mask ink key / unit](#)

#### 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

4



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

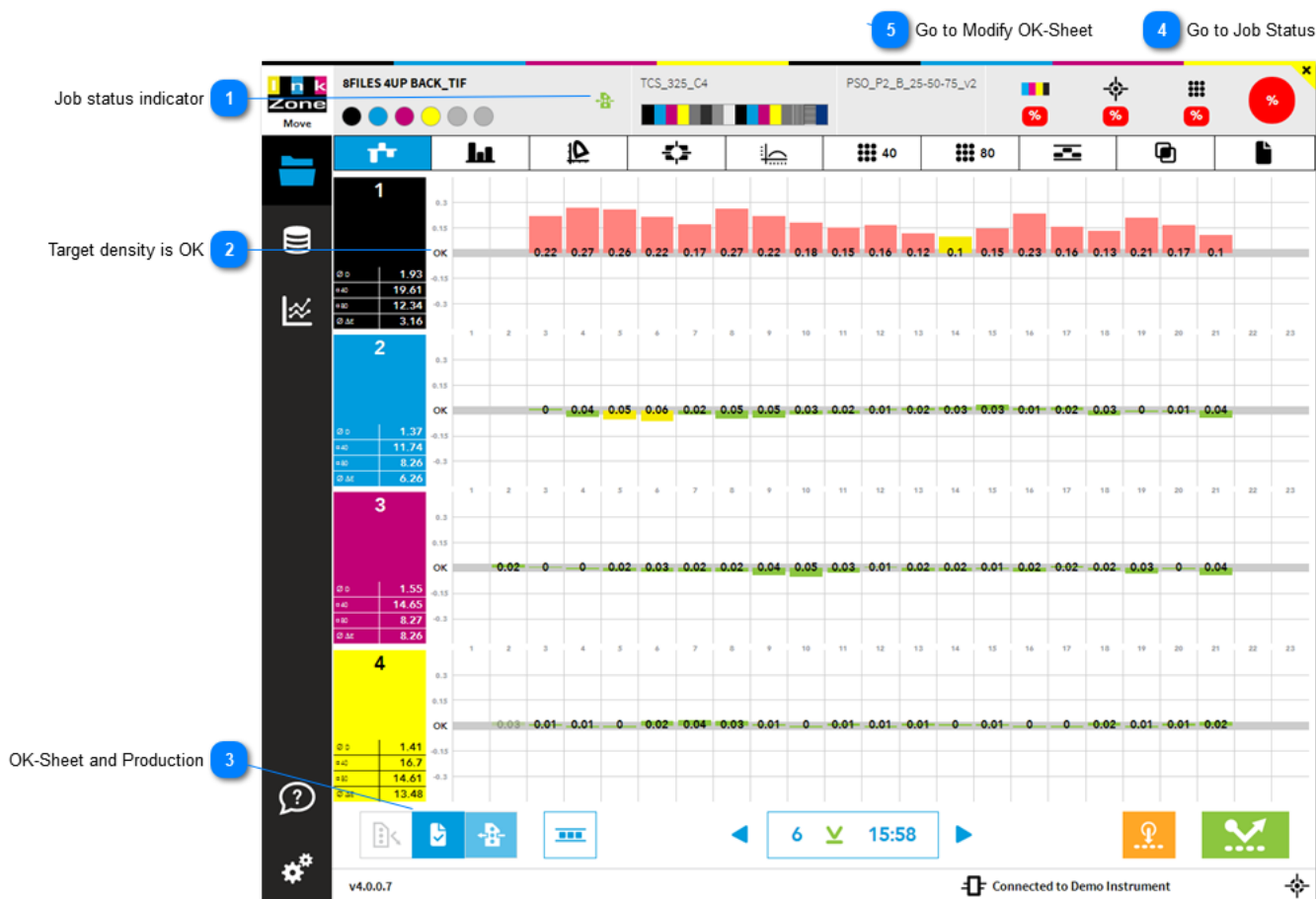
5

**Go to Measurement view**[1.1. Measurement view](#)

6

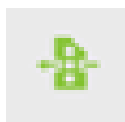
**Go to Job Setup View**[1.1.1.1. Job-Setup View](#)

### 1.1.12.1. OK-Sheet



1

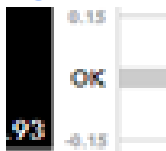
Job status indicator



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

5 Go to Job Status

Change to OK-Sheet 1

Set new OK-Sheet 2

Delete OK-Sheet 3

Modify OK-Sheet 4

OKSheet already set

Open current 5

Set new 6

Clear

Cancel

v4.0.0.7

Connected to Demo Instrument

1

## Change to OK-Sheet

Open current



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

2

## Set new OK-Sheet

Set new



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

3

## Delete OK-Sheet

Clear



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

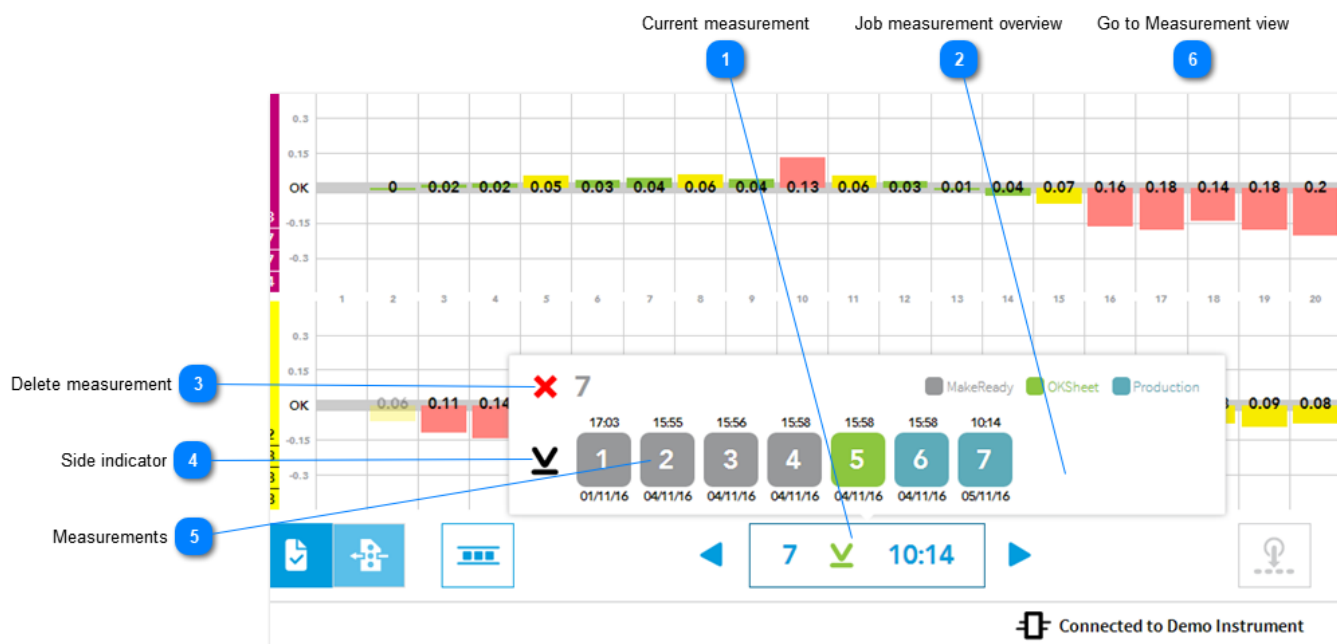
5

**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

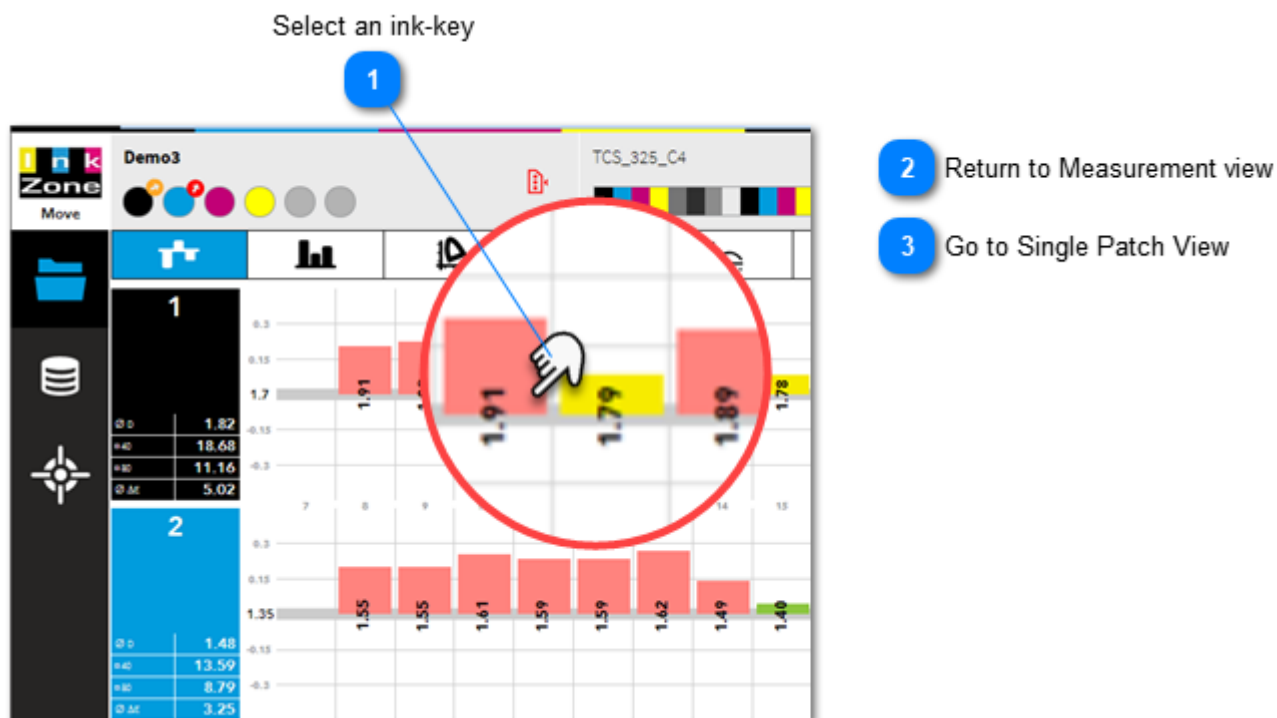
6

**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



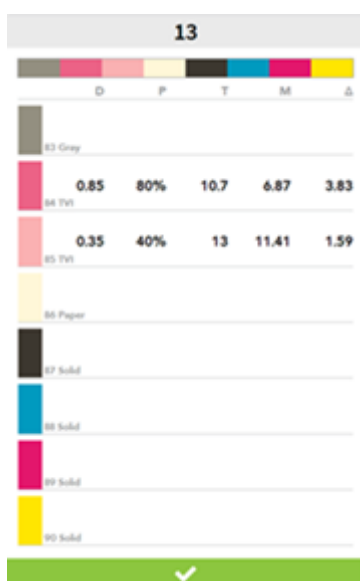
Click on a single measurement to displays density, colorimetric and TVI information for all patches in the selected ink-key. The displayed data depends on the program's selected view.

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

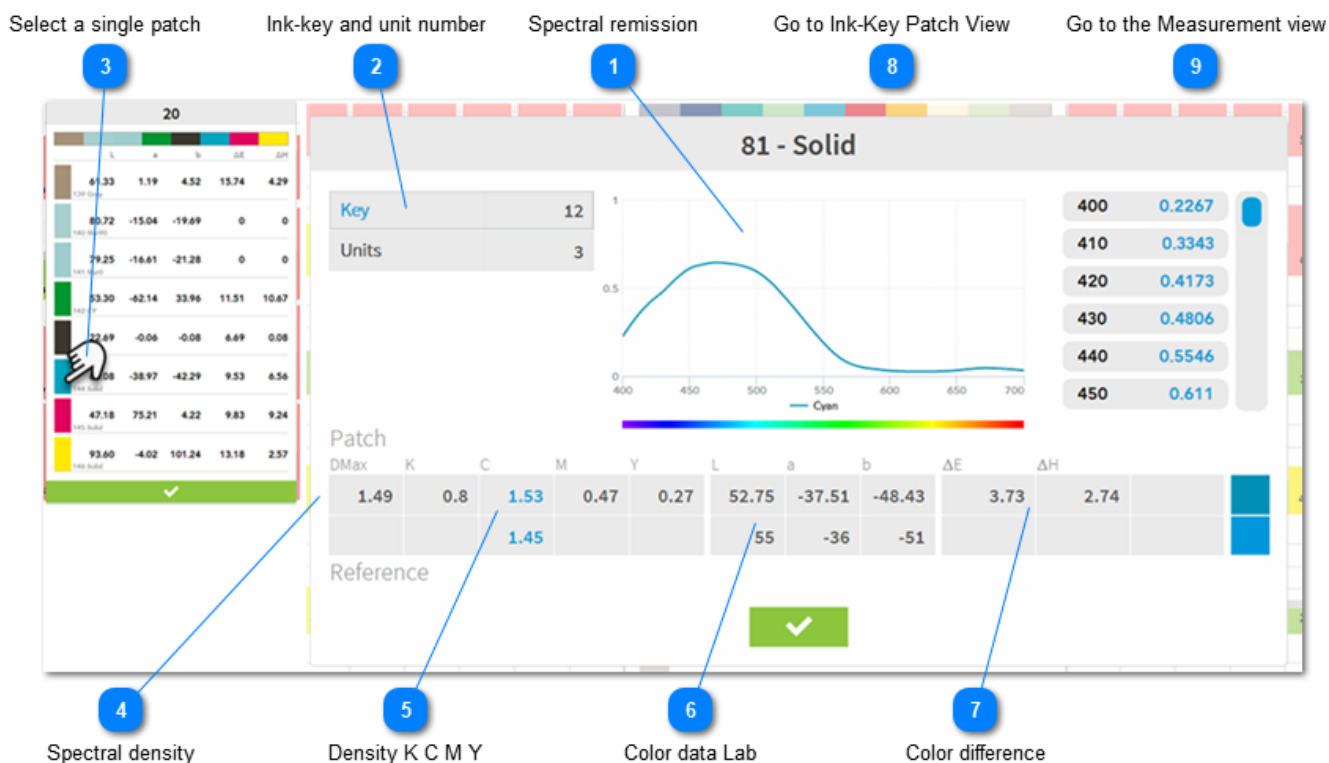
[1.1. Measurement View](#)

## 3 Go to Single Patch View

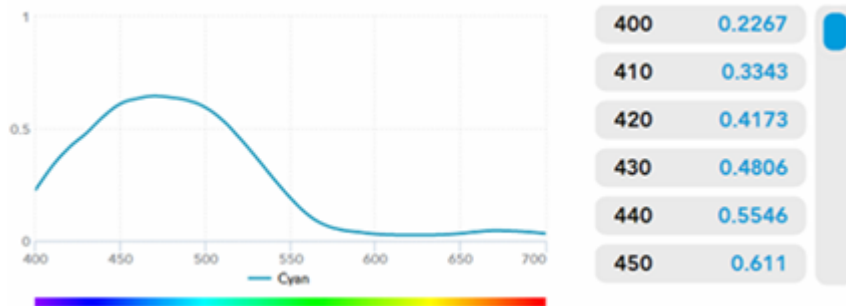
[1.1.14.1. Single Patch View](#)

### 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



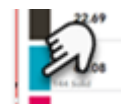
Spectral remission in graph and table view.

#### 2 Ink-key and unit number

Key	12
Units	3

Indicates ink-key number and print unit.

#### 3 Select a single patch



Clicking on a patch opens the single patch view.

4

**Spectral density**

DMax
1.49

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**

$\Delta E$	$\Delta H$
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

Transfer button turns orange after successfully scanning the press sheet. Ink key correction for color control is available.



Progress bar indicates ink-key correction is being transferred to press console



Ink-key correction for color-control is successfully transferred



#### Scan button

Progress bar indicates instrument is in scan mode



Progress bar indicates instrument finished scan and scan data is displayed



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.

7 Go to Navigation Bar

**Measure spot**

Sample Reference

Start measurement sample 1

Assign to print unit 2

Paper white calibration 3

Start measurement reference 5

Select from Targaset 4

Measurement data 6

400 0.126781

410 0.121439

420 0.109048

430 0.097192

440 0.089161

450 0.088024

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

✓

1

#### Start measurement sample



Place the spectrophotometer over the sample and start measurement.

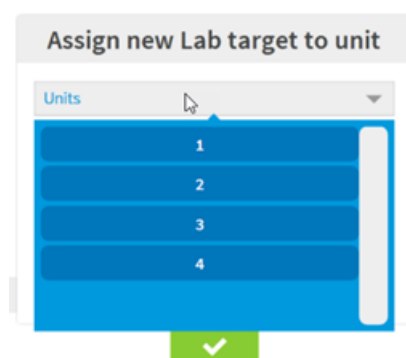
2

#### 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 Targetset



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	$\Delta E$ 76	$\Delta E$ 2000	$\Delta H$	
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

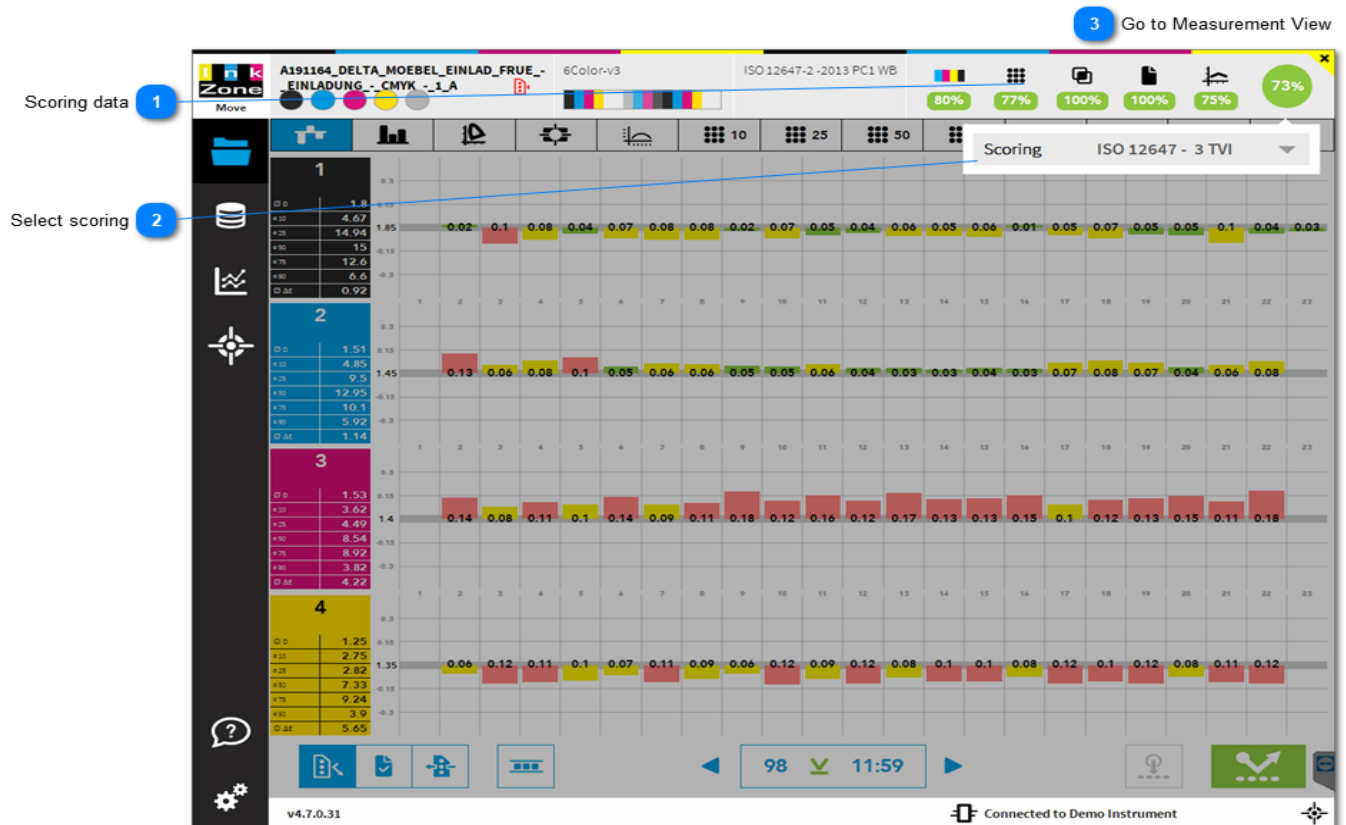
7

#### 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.

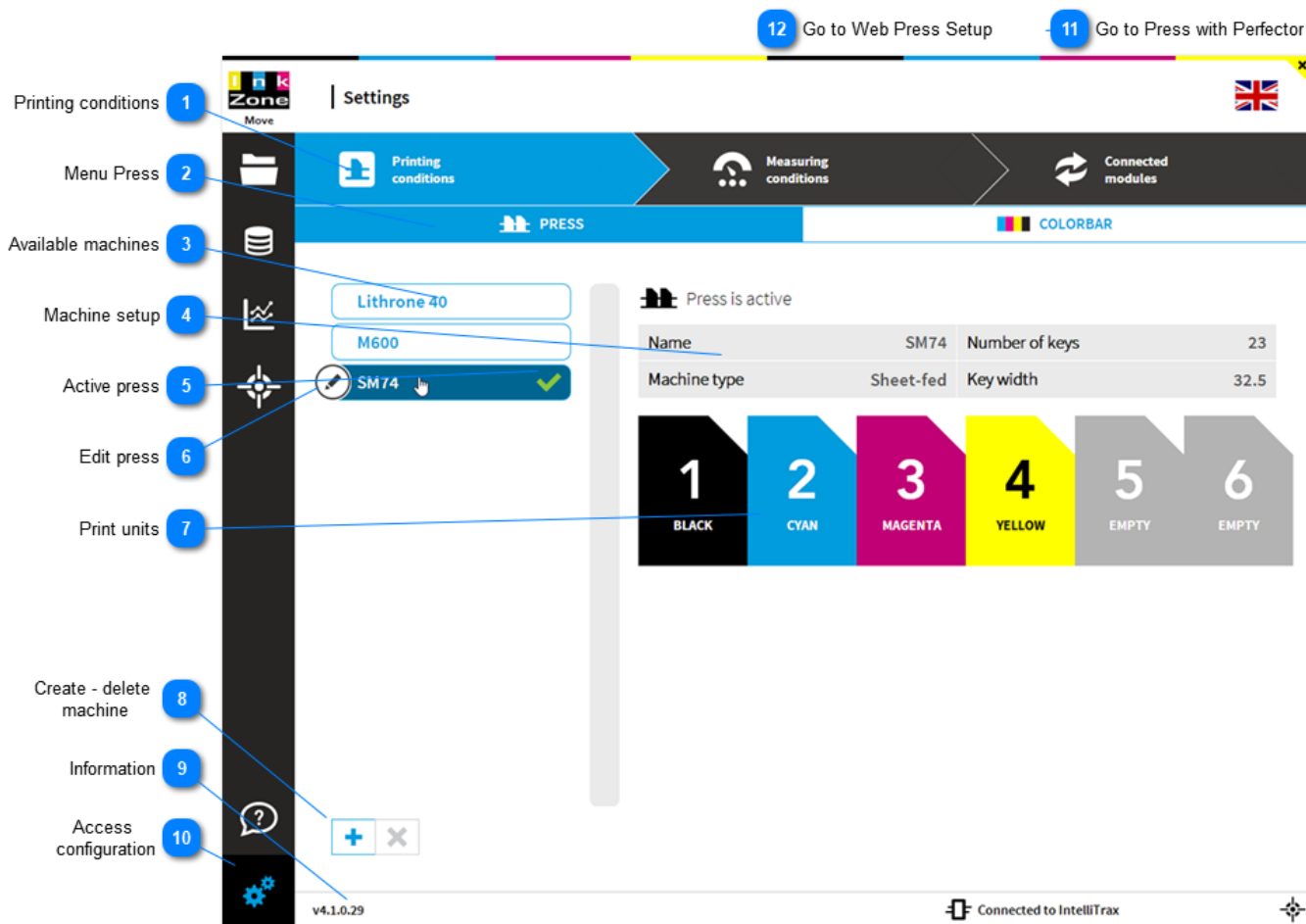
Scoring setup, see here: [1.2.5. Scoring Setup](#)

#### 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

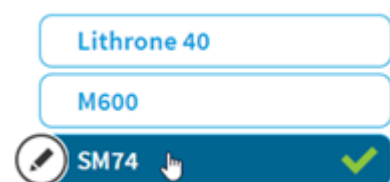
#### Menu Press



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**

**v4.1.0.29**

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

10 Go to Web Press Setup      9 Go to Press with Perfector

**Configure press SM102**

**General information** 1

**Machine type** 2

**Ink key parameter** 3

**Units and perfector** 4

**Console ink-key setup** 5

**Print units** 6

**Ink-Key Groups** 7

**Advanced press settings** 8

**Press parameters**

Name	SM102	Number of keys	32	Units	6
Manufacturer	Heidelberg	Key width	32.5	Perfector position	0
Machine type	Sheet-fed				

Console inkkey direction: Lowest to highest ink key

Print units: 1 BLACK, 2 CYAN, 3 MAGENTA, 4 YELLOW, 5 EMPTY, 6 EMPTY

Connected to Demo Instrument

1

**General information**

Name	SM102
Manufacturer	Heidelberg

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**

Machine type	Sheet-fed
--------------	-----------

Select either sheet-fed or web press

Machine type	sheet-fed
<div>sheet-fed</div> <div>web</div>	

## 3 Ink key parameter

Number of keys	32	-	+
Key width	32.5	-	+

Set the number of keys and their width

## 4 Units and perfector

Units	6	-	+
Perfector position	0	-	+

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

▼ Console inkkey direction

Lowest to highest ink key

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

10 [Return to System Setup](#)

Relative view 1

Perfecting Press Setup 2

Compact view 3

Same color 4

Auto transfer 5

Sync command 6

Color bar position 7

Scan error detection 8

Regulation strength 9

### Advanced press settings

Density relative values
☒

Front and back on single page
☒

Hide inactive side keys
☒

Allow same colour in different units
☐

Enable auto ink key transfer
☒

Sync with press before scan
☒

Colorbar position
Always centred ▼

Regulation strength

⬇⬇↪↪↪↪↪↪↪↪⬆⬆

9

↶
✓

1

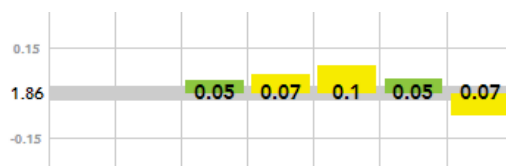
#### Relative view

##### Density relative values

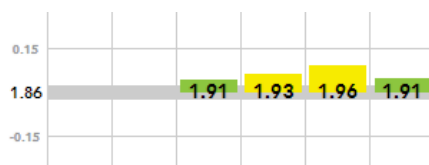
Applies to the density relative measurement view.

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

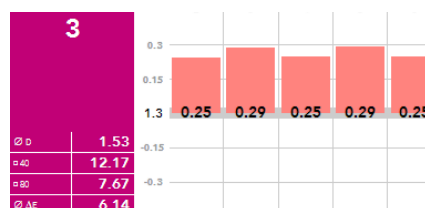
## Compact view

### Hide inactive side keys

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

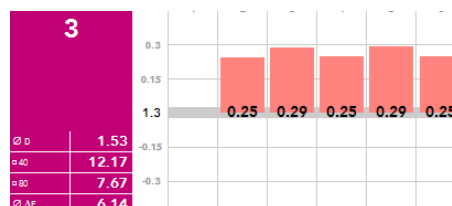
#### Hide active

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

Enable auto ink key transfer

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

6

## Sync command

Sync with press before scan

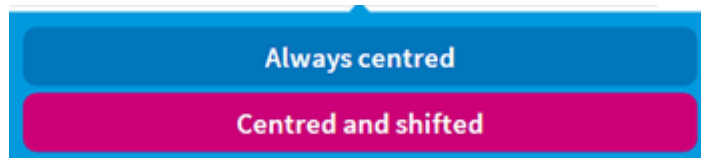
Activate when InkZoneLoop is used. During the scan operation InkZoneLoop synchronizes its ink key position with the press.

7

## Color bar position

Colorbar position

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



When selecting **always centred**, the color bar 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

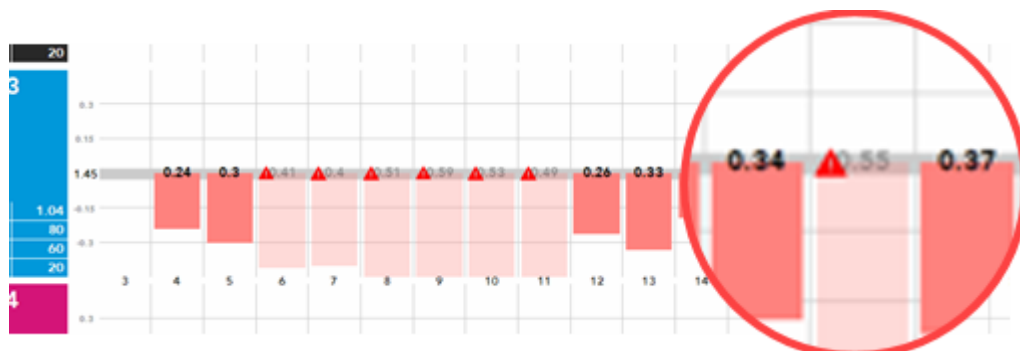
Measurement = 0.3

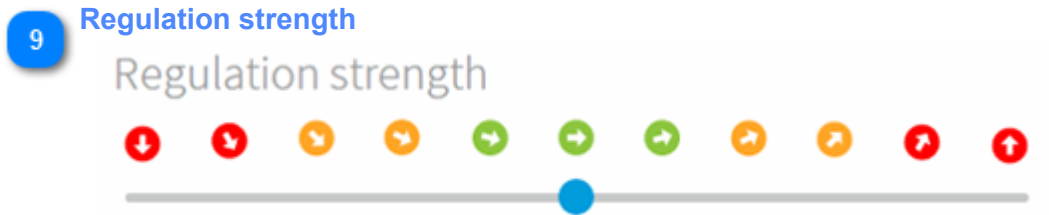
Setup "disable key for out of range density" = 0.85

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.





A general regulation change for all units.

## 10 Return to System Setup

[1.2.7. System Setup](#)

1.2.1.3. Press with Perfector

4

Go to Press Setup

Zone

Move

Settings

Printing conditions

Measuring conditions

Connected modules

Move

Press

Colorbar

M600

SM74

Press is active

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

1

2

3

4

5

6

7

8

BLACK

CYAN

MAGENTA

YELLOW

BLACK

CYAN

MAGENTA

YELLOW

Units before perfector

1

Perfector position

2

Units after perfector

3

+

×

v4.0.0.8

Connected to Demo Instrument

1

Units before perfector

1

2

3

4

BLACK

CYAN

MAGENTA

YELLOW

Print units with color sequence for units before the perfector

2

Perfector position

Perfector indicator and position in the press

3

Units after perfector

5

6

7

8

BLACK

CYAN

MAGENTA

YELLOW

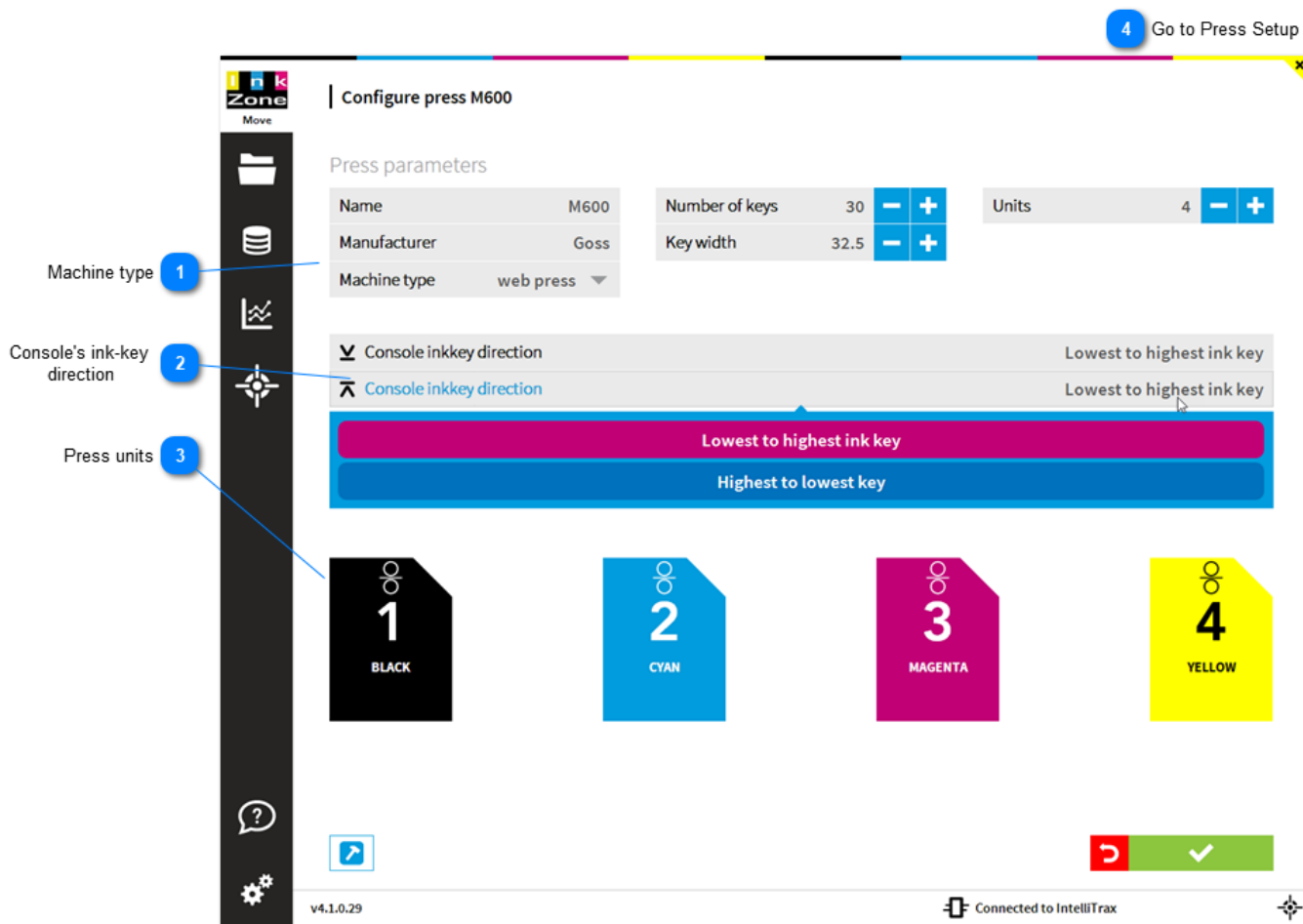
Print units with color sequence for units after the perfector



**Go to Press Setup**

[1.2.1. Press Setup](#)

## 1.2.1.4. Web Press Setup



1

## Machine type

Machine type web press ▼

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

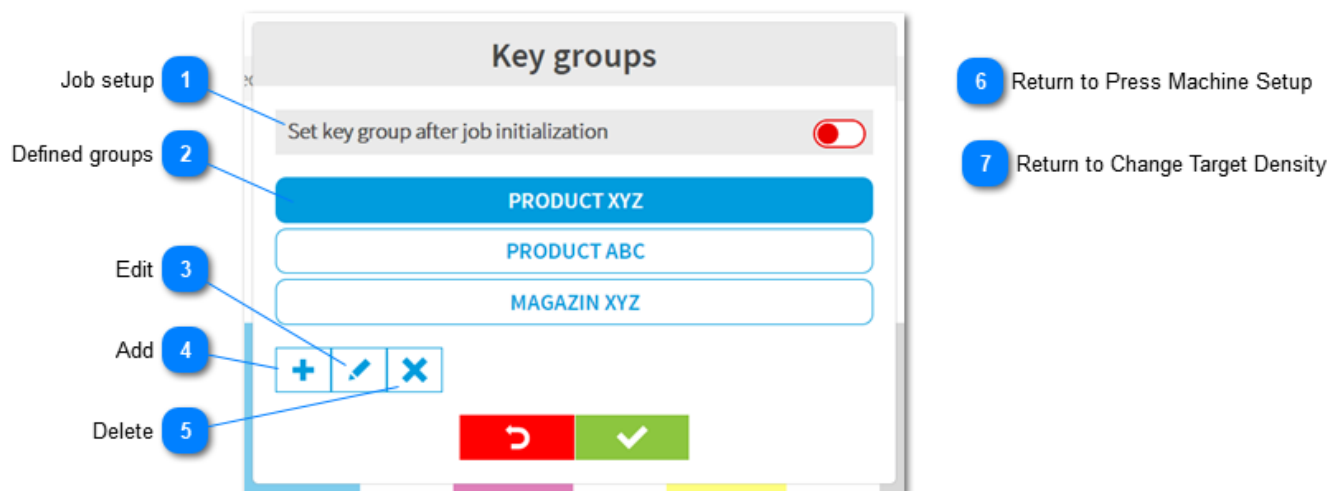
**Go to Press Setup**

[1.2.1.4. Web Press Setup](#)



### 1.2.1.5. Ink-Key Groups

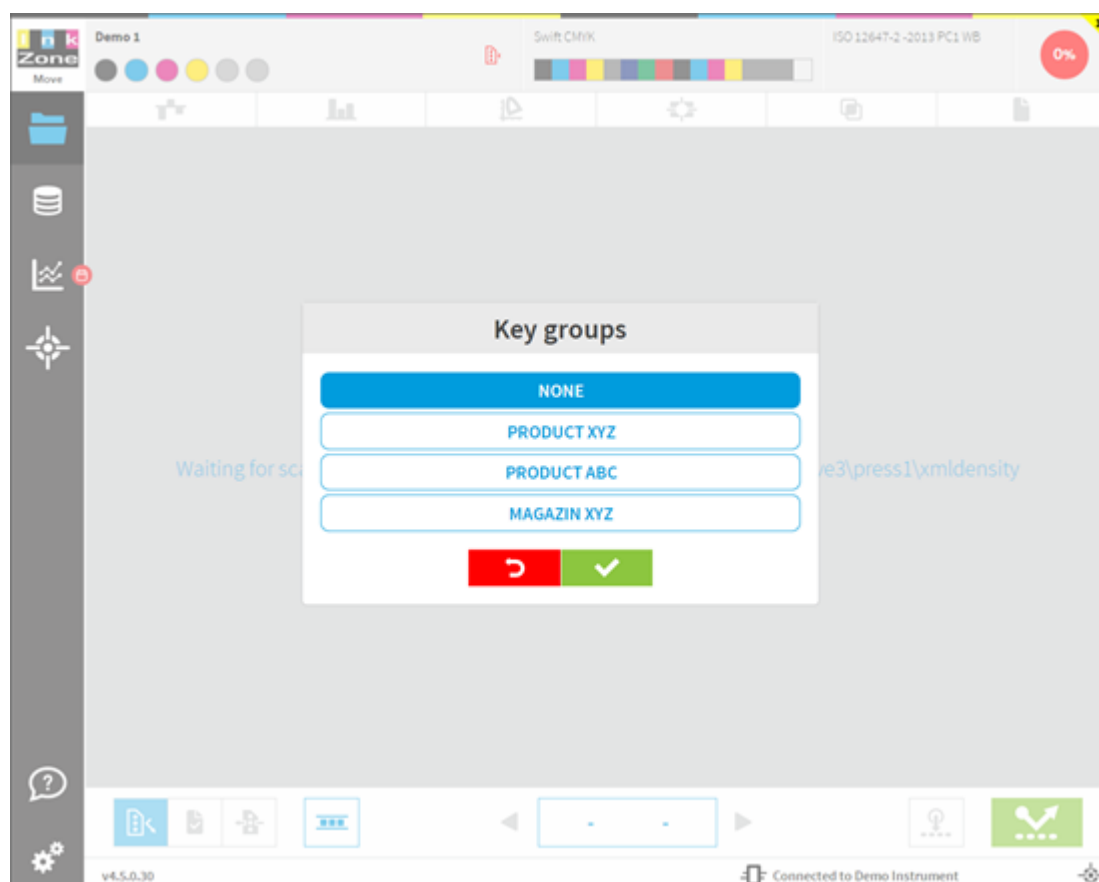
How to use <Key Groups> during production, see : [1.1.2.4. Change Target Density with <Group Ink-Keys> feature](#)



#### 1 Job setup

Set key group after job initialization

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



2

**Defined groups**

PRODUCT XYZ
PRODUCT ABC
MAGAZIN XYZ

<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](#)

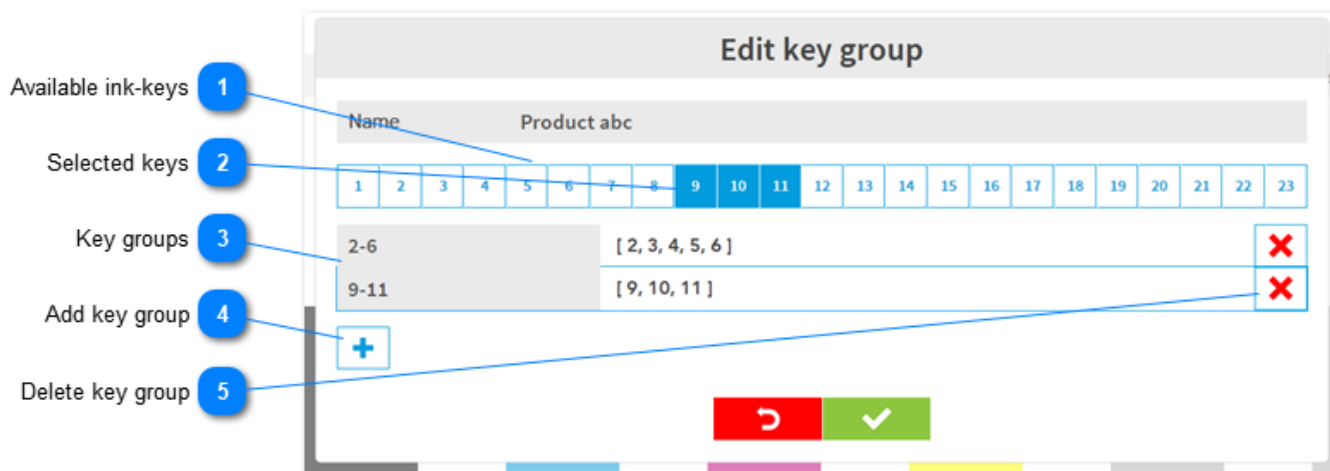
7

**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

2-6	[ 2, 3, 4, 5, 6 ]	X
9-11	[ 9, 10, 11 ]	X

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



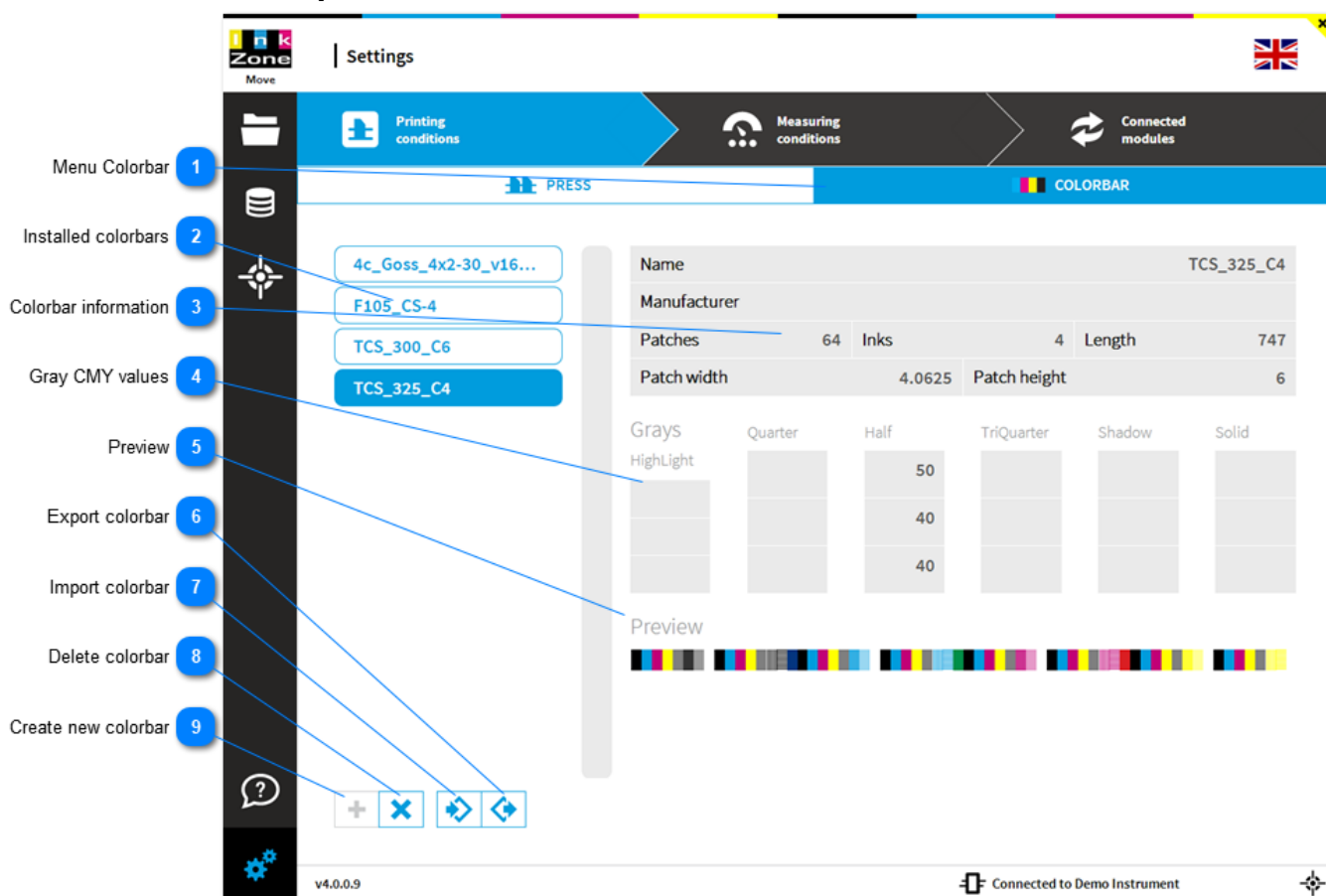
Adds a new ink-key group. Set the name and select the ink-keys

#### 5 Delete key group



Delete an existing ink-key group

## 1.2.2. Colorbar Setup



1

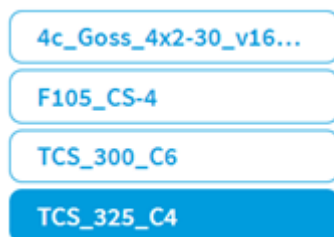
### Menu Colorbar



Opens the submenu Colorbar

2

### Installed colorbars



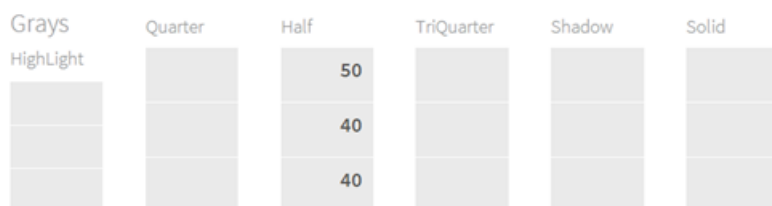
Shows all available colorbars and the currently selected one.

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 colorbar 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

10 Go to ISO Standards

Inks	Density	Lab	TVI curve
Black	1.85	16 0 0	B
Cyan	1.45	54 -36 -49	A
Magenta	1.4	46 72 -5	A
Yellow	1.35	87 -6 90	A
Paper	0	93 0 -3	
Blue (C+M)	0.76	24 16 -45	
Green (C+Y)	0.63	49 -66 24	
Red (M+Y)	0.92	45.99 67 47	
C+M+Y	0.65	23 0 0	
Gray 1	0	0 0 0	
Gray 2	0.25	81.36 0 -1.5	
Gray 3	0.54	76.02 0 -1	
Gray 4	0.9	69.99 0 -0.5	
Gray 5	0	0 0 0	

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

- ISO 12647-2 -2013 PC1 ...
- ISO 12647-2 -2013 PC2 ...
- ISO 12647-2 -2013 PC3 ...
- ISO 12647-2 -2013 PC4 ...
- ISO 12647-2 -2013 PC5 ...

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.

	Inks	Density	Lab	TVI curve
ISO 12647-2 -2013 PC6 ...	Black	1.75	19 1 2	B
ISO 12647-2 -2013 PC7 ...	Cyan	1.45	56 -36 -45	A
ISO 12647-2 -2013 PC8 ...	Magenta	1.45	46 70 -7	A
PSO_P1_B_25-50-75_v2	Yellow	1.3	84 -4 86	A
PSO_P1_B_40-80_v2	Paper	0	89 0 -1	
PSO_P2_B_25-50-75_v2	Blue (C+M)	0.76	27 16 -45	
PSO_P2_B_40-80_v2	Green (C+Y)	0.66	49 -57 26	
PSO_P3_B_25-50-75_v2	Red (M+Y)	0.92	46 62 42	
PSO_P3_B_40-80_v2	C+M+Y	0.65	27 -4 -1	
PSO_P4_B_25-50-75_v2	Gray 1	0	0 0 0	
PSO_P4_B_40-80_v2	Gray 2	0.25	81.36 0 -1.5	
PSO_P5_B_25-50-75_v2	Gray 3	0.54	75.79 0 -1	
PSO_P5_B_40-80_v2	Gray 4	0.9	69.99 0 -0.5	
	Gray 5	0	0 0 0	

5

## Color entries

Inks	Density	Lab	TVI curve
Black	1.85	16 0 0	B
Cyan	1.45	54 -36 -49	A
Magenta	1.4	46 72 -5	A
Yellow	1.35	87 -6 90	A
Paper	0	93 0 -3	

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](#)



Go to ISO Standards

See here: [1.2.3.4.1. ISO 12647-2:2013](#)



### 1.2.3.1. Edit Color

12 [Return to Scoring Setup](#)

Targetset name 1

Color name 2

Lab target 3

Target density with tolerance 4

Front / Back target selector 5

Spectral remission 6

DeltaE tolerance 7

TVI values with tolerance 8

Visualized TVI curve 9

TVI curve type 10

Cancel / Store 11

12 Return to Scoring Setup

#### 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

L 87 - + a -6 - + b 90 - +

Lab target value

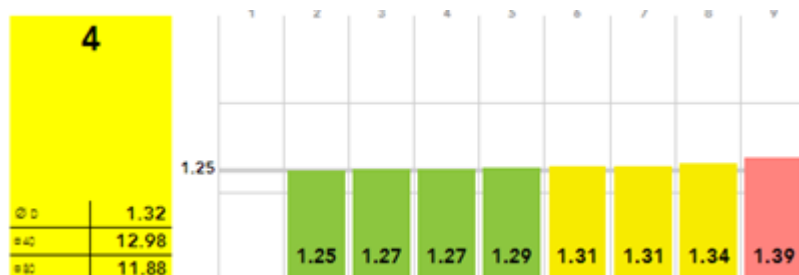
#### 4 Target density with tolerance

Density (Y) -0.1 -0.05 1.25 0.05 0.1

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

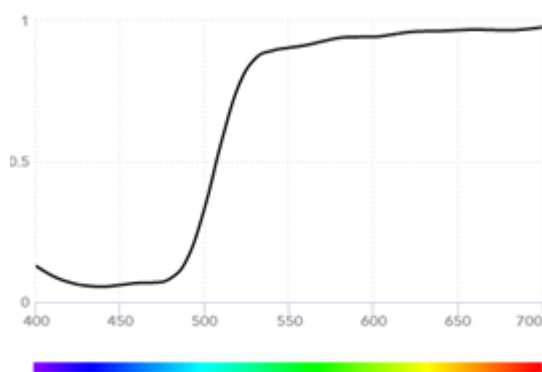
Density (Y)



Setup an individual density target for front and back side.

6

## Spectral remission

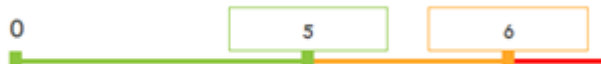


Spectral remission curve

7

## DeltaE tolerance

$\Delta E$

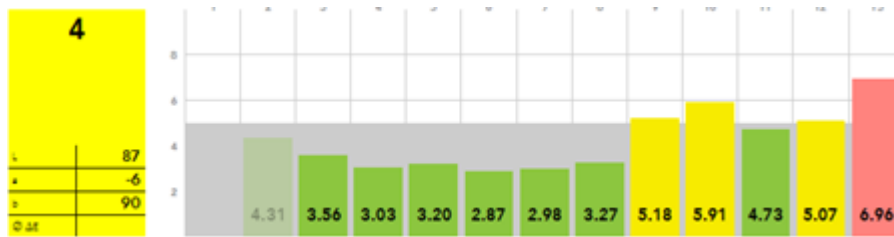


Color tolerance in DeltaE

With this setup the DeltaE is displayed as:

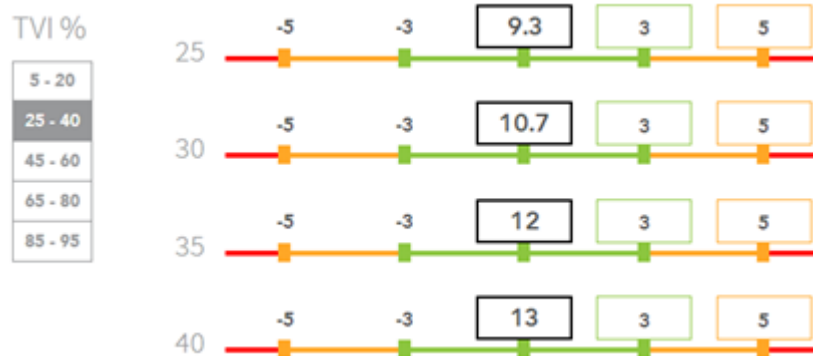
DeltaE < 6	red
DeltaE 5 - 6	yellow

DeltaE 0 - 5 green



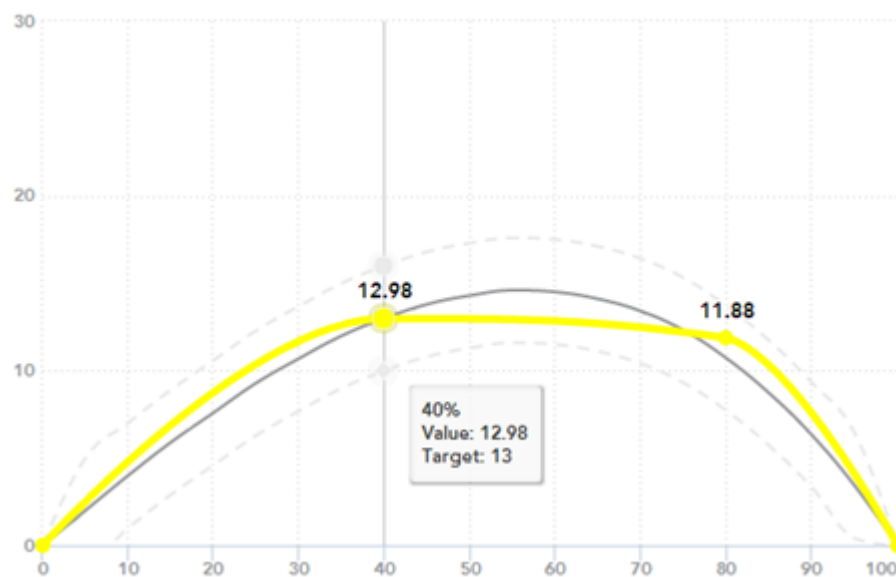
8

TVI values with tolerance



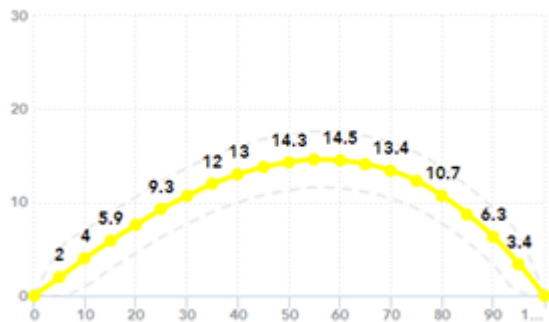
With this setup the TVI curve in the 40% is displayed as:

- 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



TVI curve with targets

**10** TVI curve type

A	B	C	D	E	F	LINEAR
---	---	---	---	---	---	--------

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

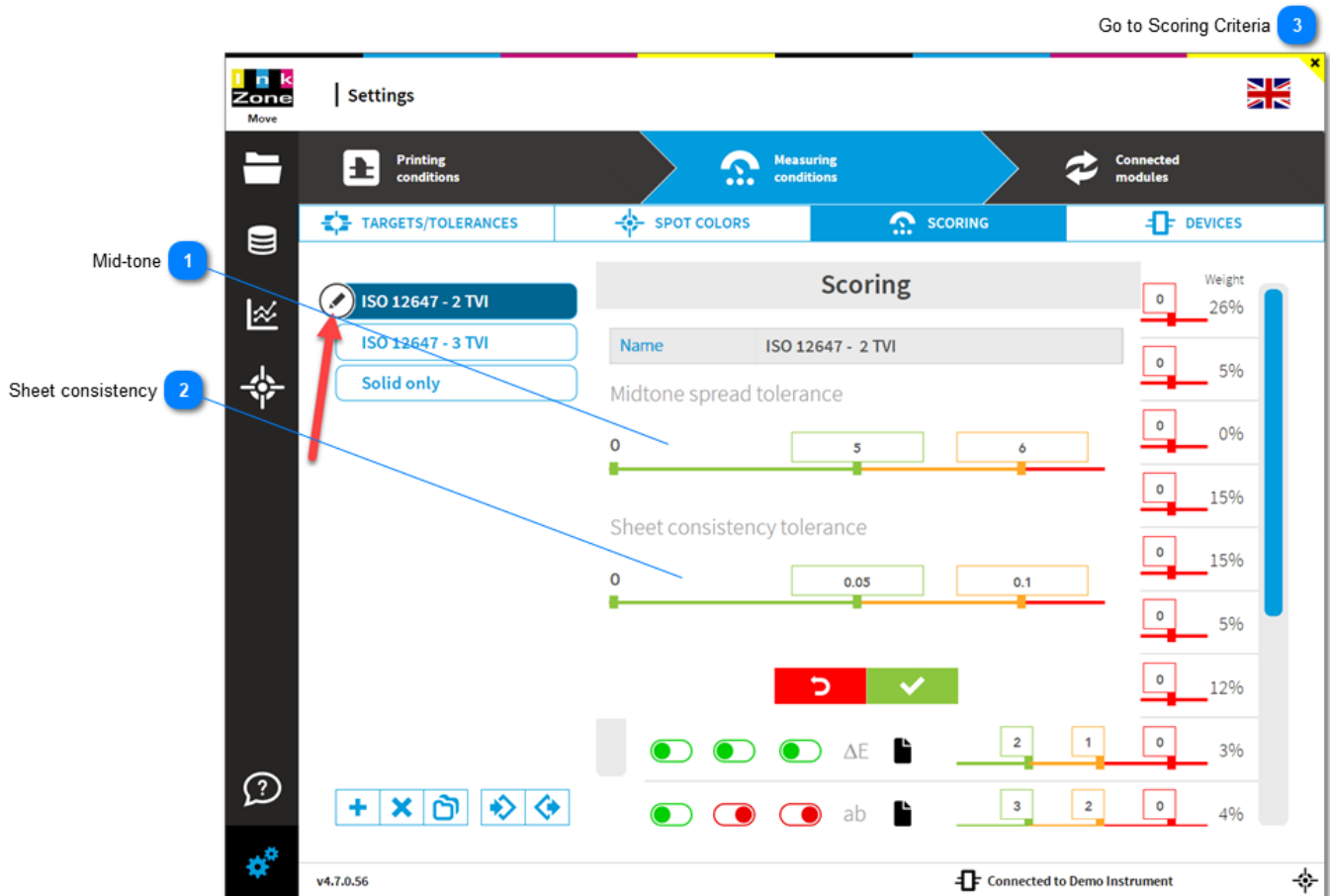
**11** Cancel / Store

Dismiss change / accept change

**12** Return to Scoring Setup[1.2.5. Scoring Setup](#)

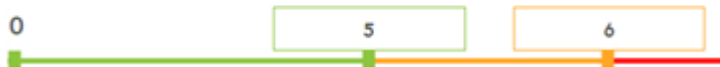
### 1.2.3.1.1. Tolerance for Mid-tone and Sheet Consistency

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

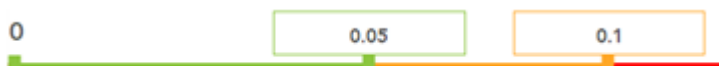
Midtone spread tolerance



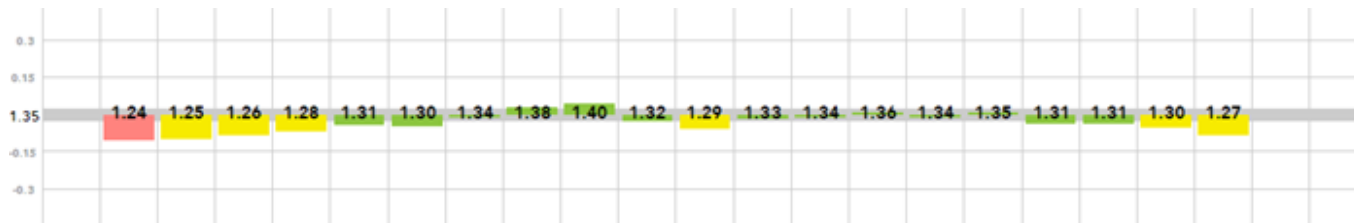
Set-up tolerances for mid-tone spread.  
It compares the TVI mid-tone value (40 or 80%) of C,M and Y.

#### 2 Sheet consistency

Sheet consistency tolerance



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:

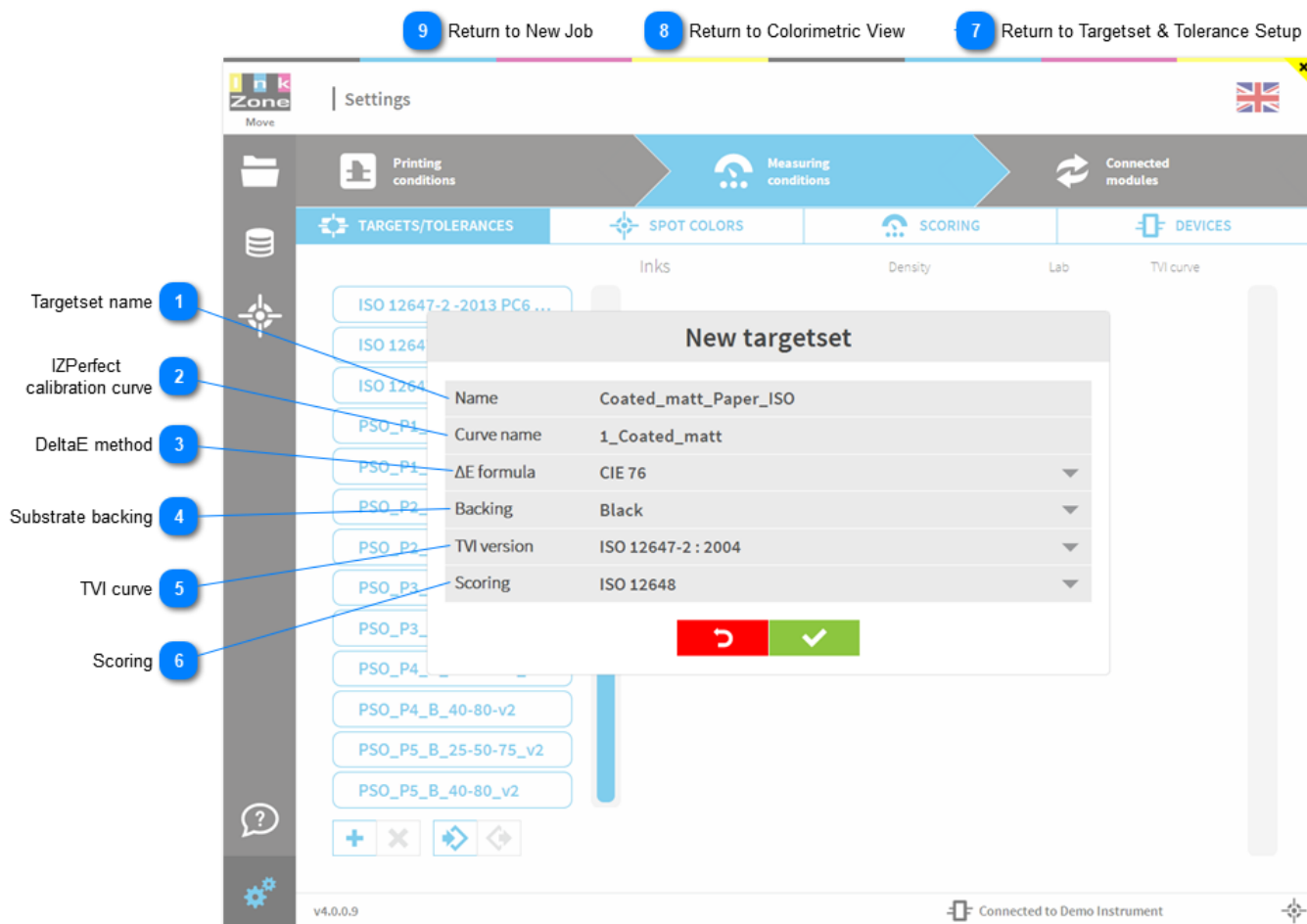


3

[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.



New targetset	
Name	Coated_matt_Paper_ISO
Curve name	1_Coated_matt
ΔE formula	CIE 76
<div>CMC</div> <div>CIE 94</div> <div>CIE 2000</div> <div>CIE 76</div>	

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.



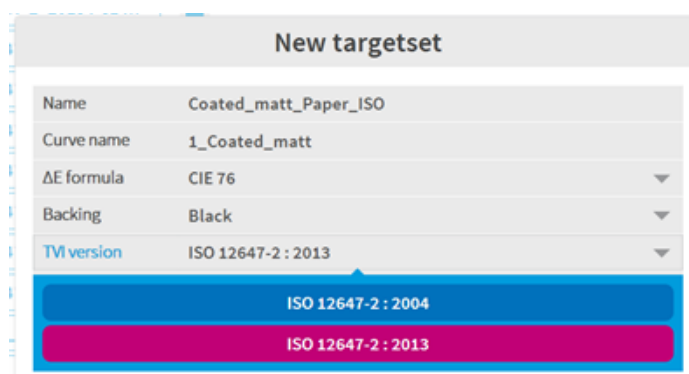
New targetset	
Name	Coated_matt_Paper_ISO
Curve name	1_Coated_matt
ΔE formula	CIE 76
Backing	Black
<div>Black</div> <div>White</div>	

5

#### TVI curve

TVI version      ISO 12647-2 : 2004

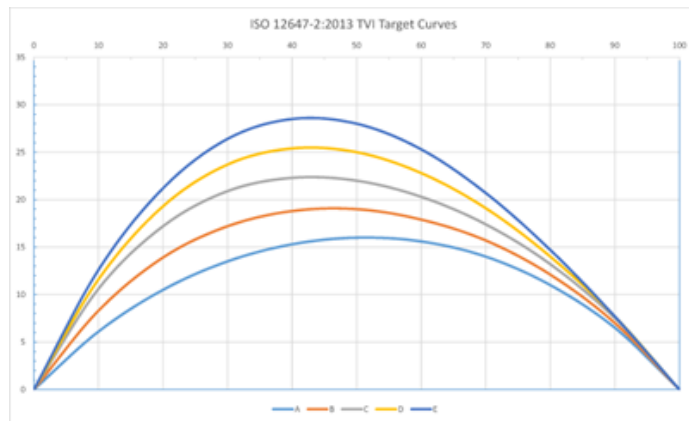
Choose between the TVI curve definition from 2004black and white substrate backing.



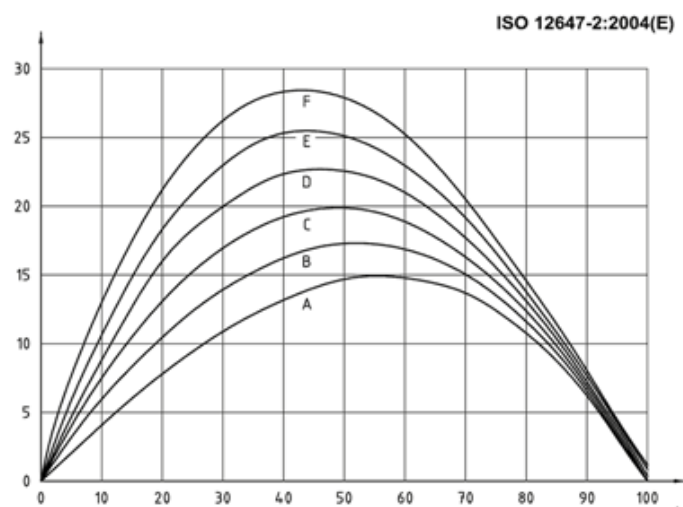
New targetset	
Name	Coated_matt_Paper_ISO
Curve name	1_Coated_matt
ΔE formula	CIE 76
Backing	Black
TVI version	ISO 12647-2 : 2013
<div>ISO 12647-2 : 2004</div> <div>ISO 12647-2 : 2013</div>	



TVI 12647-2 2013



TVI 12647-2 2004



6

## Scoring

Scoring

ISO 12648

Select the scoring set. See here:

[1.2.5. Scoring Setup](#)

The 'New targetset' dialog box shows the following configuration:

New targetset	
Name	Coated_matt_Paper_ISO
Curve name	1_Coated_matt
$\Delta E$ formula	CIE 76
Backing	Black
TVI version	ISO 12647-2 : 2013
Scoring	None

At the bottom, there are two buttons: 'None' (pink) and 'ISO 12648' (blue). The 'ISO 12648' button is highlighted.

7

## Return to Targetset & Tolerance Setup

[1.2.3. Targetset & Print Tolerance Setup](#)

8

## Return to Colorimetric View

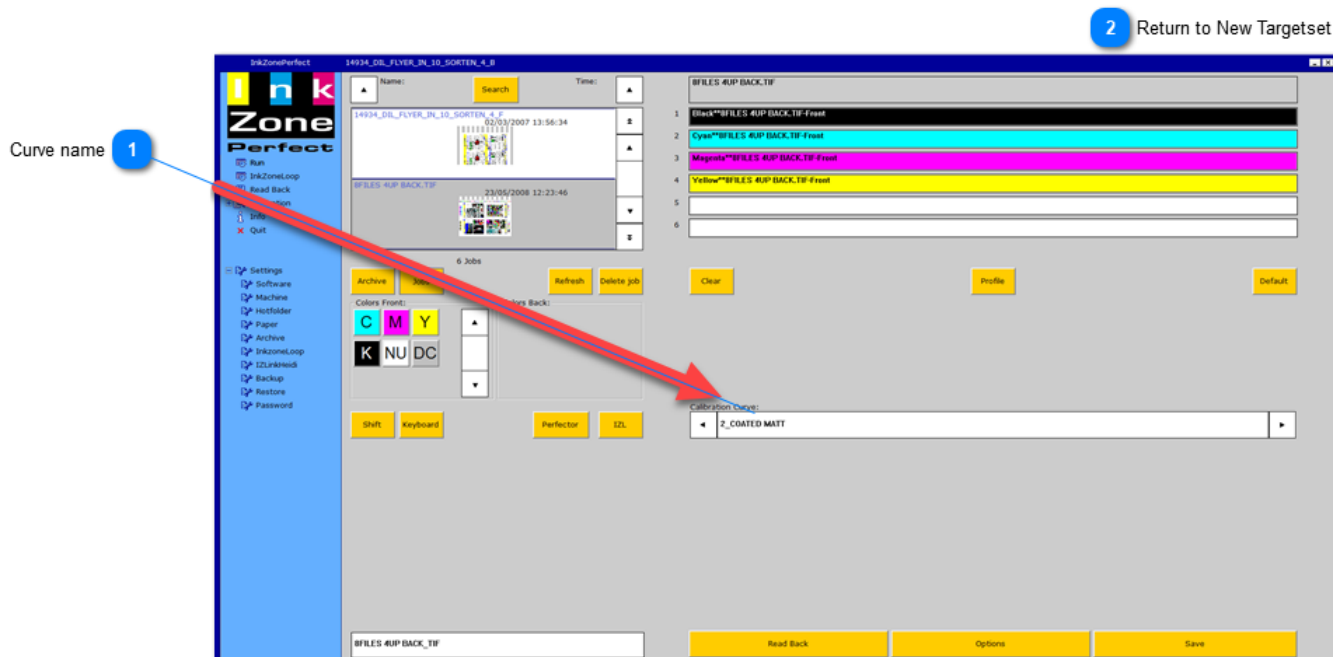
[1.1.4. Colorimetric View](#)



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

5 Return to Scoring Sample Solids-TVI-Overprint-Paper      4 Return to Scoring Sample Solids only      3 Return to Scoring Setup

**Edit targetset**

Name	Curve name	ΔE formula	Backing	TVI version	Scoring
ISO 12647-2 -2013 PC1 BB	1_COATED GLOSS	CIE 76	Black	ISO 12647-2 : 2013	ISO

Gray 3      0.54      76.02      0      -1

Gray 4      0.9      69.99      0      -0.5

Gray 5      0      0      0      0

v4.0.0.16      Connected to Demo Instrument

1

## Edit Targetset



ISO 12647-2 -2013 PC1 ...

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

2

## Targetset parameter

Name	ISO 12647-2 -2013 PC1 BB
Curve name	1_COATED GLOSS
ΔE formula	CIE 76
Backing	Black
TVI version	ISO 12647-2 : 2013
Scoring	ISO

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](#)

[1.2.3.4.1.2. TVI Curves](#)

##### 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

13 Go to Measurement View

Measuring conditions 1

Menu Spot Colors 2

Shortcut to spot color 3

Available targetsets 4

Selected targetset 5

Color entries 6

Search color 7

Import color library 8

Create new spot color 9

Delete targetset 10

Create new targetset 11

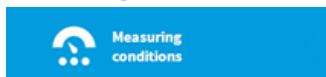
Export color library 12

13 Go to Measurement View

Inks	Density	Lab	TVI curve
PANTONE 178 C	1.27	63.23 65.43 34.65	Linear
PANTONE 1785 C	1.28	59.6 68.72 28.99	Linear
PANTONE 1787 C	1.26	56.77 72.25 35.67	Linear
PANTONE 1788 C	1.71	53.95 73.81 45.05	Linear
PANTONE 278 C	0.34	72.76 -4.42 -34.67	Linear
PANTONE 3278 C	1.28	53.52 -61.98 1.26	Linear
PANTONE 378 C	1.71	39.53 -11.3 35.46	Linear
PANTONE 478 C	1.61	32.74 23.07 21.78	Linear
PANTONE 578 C	0.62	80.02 -14.14 22.06	Linear
PANTONE 5783 C	0.79	68.06 -6.3 16.59	Linear
PANTONE 5787 C	0.72	75.6 -6.23 21.94	Linear
PANTONE 678 C	0.39	83.45 13.4 -8.33	Linear
PANTONE 7478 C	0.56	84.45 -29.33 6.35	Linear

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



Customer X

PMS color coated

Currently installed spot color targetset

5

## Selected targetset

Customer X

PMS color coated

Inks	Density	Lab			TVI curve
PANTONE 178 C	1.27	63.23	65.43	34.65	Linear
PANTONE 1785 C	1.28	59.6	68.72	28.99	Linear
PANTONE 1787 C	1.26	56.77	72.25	35.67	Linear
PANTONE 1788 C	1.71	53.95	73.81	45.05	Linear
PANTONE 278 C	0.34	72.76	-4.42	-34.67	Linear
PANTONE 3278 C	1.28	53.52	-61.98	1.26	Linear
PANTONE 378 C	1.71	39.53	-11.3	35.46	Linear
PANTONE 478 C	1.61	32.74	23.07	21.78	Linear
PANTONE 578 C	0.62	80.02	-14.14	22.06	Linear
PANTONE 5783 C	0.79	68.06	-6.3	16.59	Linear
PANTONE 5787 C	0.72	75.6	-6.23	21.94	Linear
PANTONE 678 C	0.39	83.45	13.4	-8.33	Linear
PANTONE 7478 C	0.56	84.45	-29.33	6.35	Linear



Current selected spot color targetset.

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

6

## Color entries

Inks	Density	Lab			TVI curve
PANTONE 178 C	1.27	63.23	65.43	34.65	Linear
PANTONE 1785 C	1.28	59.6	68.72	28.99	Linear
PANTONE 1787 C	1.26	56.77	72.25	35.67	Linear
PANTONE 1788 C	1.71	53.95	73.81	45.05	Linear
PANTONE 278 C	0.34	72.76	-4.42	-34.67	Linear
PANTONE 3278 C	1.28	53.52	-61.98	1.26	Linear

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

New spot	
Name	Red1 for Axtras
Channel	MAX ▼
TVI curve	Linear ▼

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

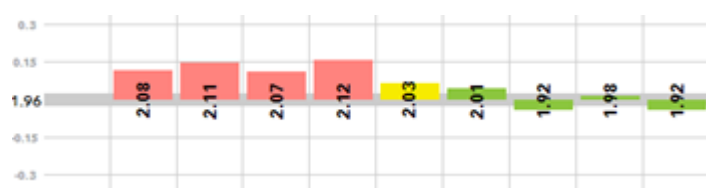
## Target density with tolerance



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

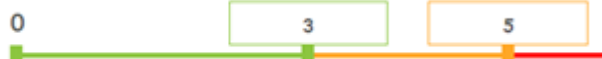


Setup an individual density target for front and back side.

7

## DeltaE tolerance

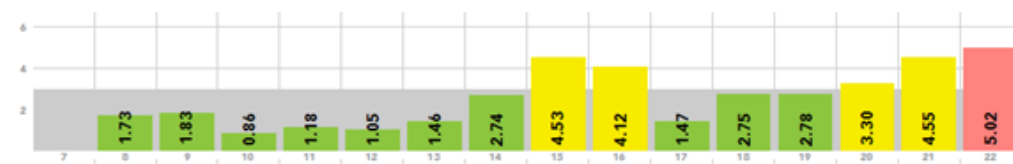
$\Delta E$



Color tolerance in DeltaE

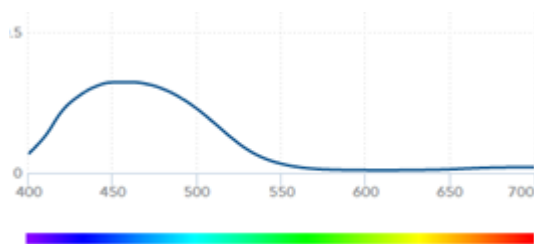
With this setup the DeltaE for a front and back measurement is displayed as:

0 - 3	green
3.01 - 5	yellow
> 5	red



8

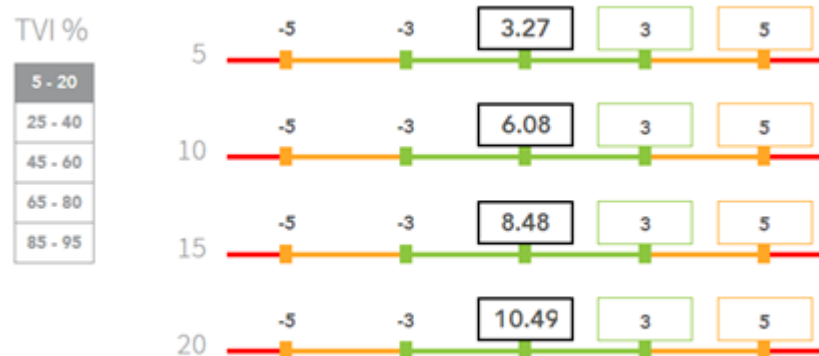
## Spectral remission



Spectral remission curve

9

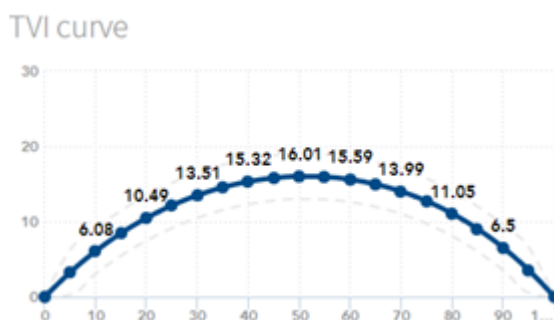
### TVI values with tolerance



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

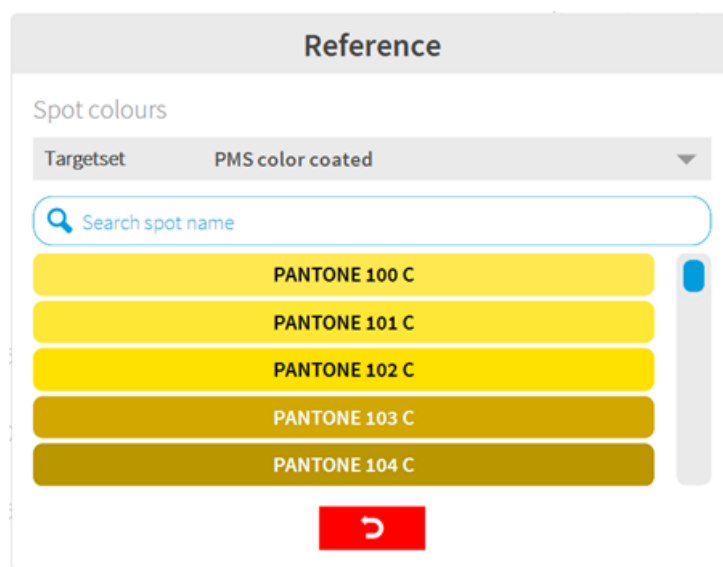
13

## 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

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

12 Go to Scoring sample Solids only

Measuring conditions 1

Menu scoring 2

Scoring set 3

Active 4

Display 5

Status 6

Assessment 7

Scoring type 8

Weight on total 9

Manage scoring sets 10

Total scoring setup 11

Standard	Enabled	Visible	Obligatory	Assessment	Scoring type	Weight
House standard	Yes	Yes	Yes	ΔE	Color bar	20%
ISO (modified)	Yes	No	No	ΔE	Color bar	5%
ISO 12647	Yes	No	No	1/4	Color bar	15%
	Yes	Yes	Yes	1/2	Color bar	20%
	Yes	Yes	Yes	3/4	Color bar	15%
	Yes	Yes	Yes	1/4	Color bar	4%
	Yes	Yes	Yes	ΔE	Color bar	15%
	Yes	Yes	Yes	ΔE	Color bar	3%
	Yes	No	No	ab	Color bar	3%
<b>Total</b>						<b>100%</b>

v4.2.0.16

Connected to Demo Instrument

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

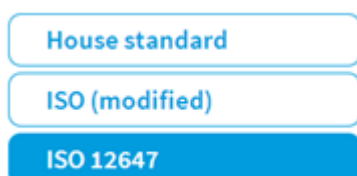
### Menu scoring



Open the submenu Scoring

3

### Scoring set



Currently available scoring sets.

4

**Active**

Enabled



Enable / Disable the scoring for the criteria.

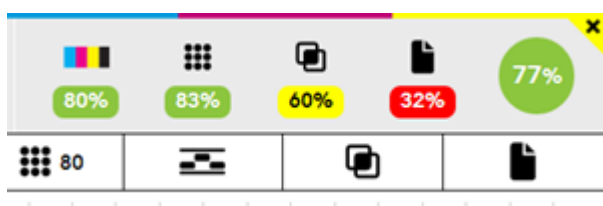
5

**Display**

Visible



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**

Obligatory



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:

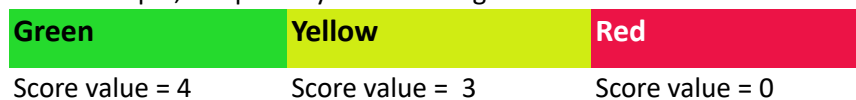
In the targetset, the primary's tolerance is set:

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





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



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

ΔE

ΔE

1/4

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

Weight

20%

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



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**

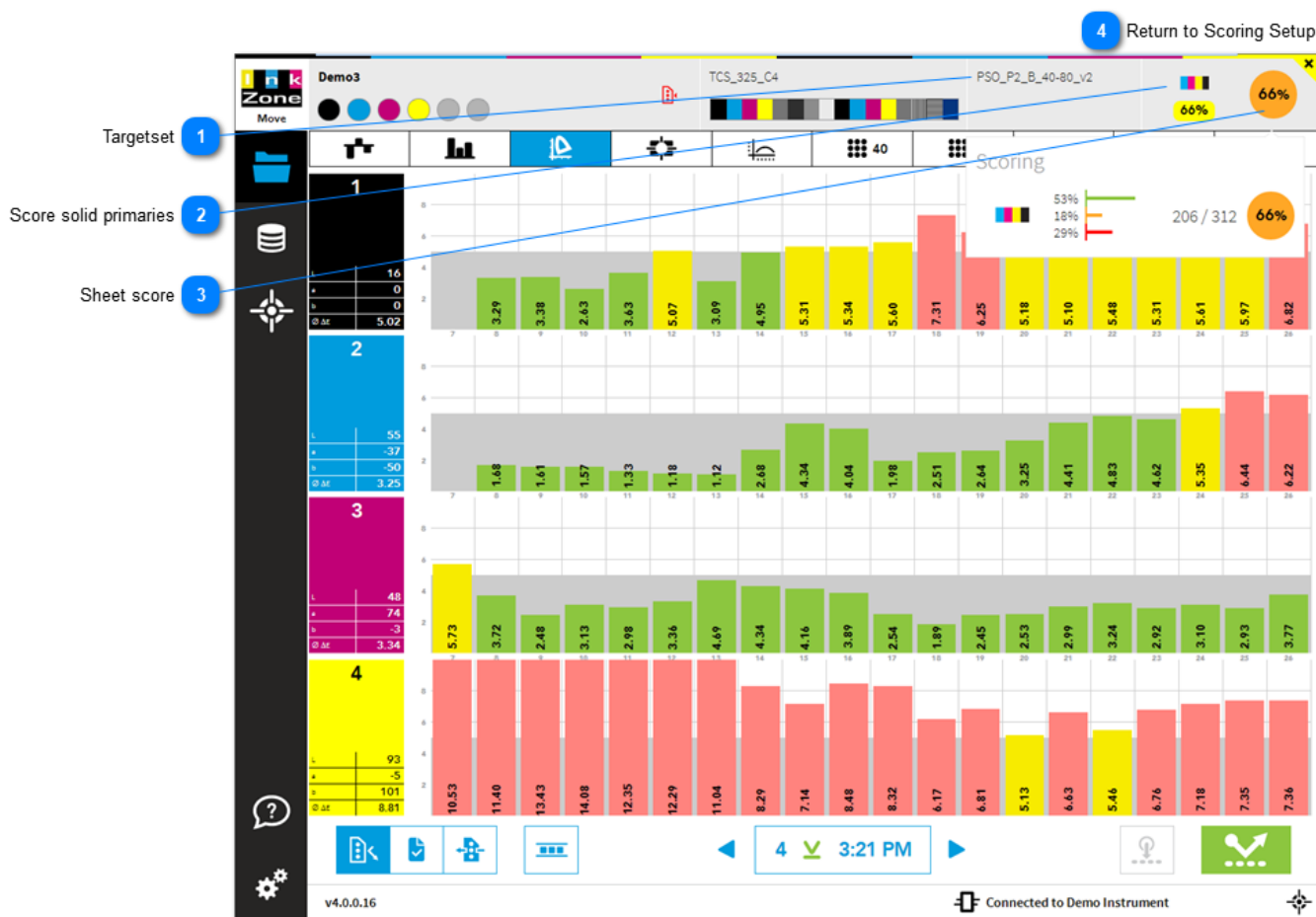
[1.2.5.1. Scoring sample - Solids only](#)

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

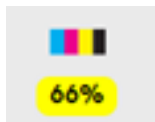
## Targetset

PSO\_P2\_B\_40-80\_v2

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

2

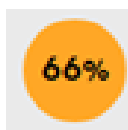
## Score solid primaries



Score for the solid primaries CMKY

3

## Sheet score



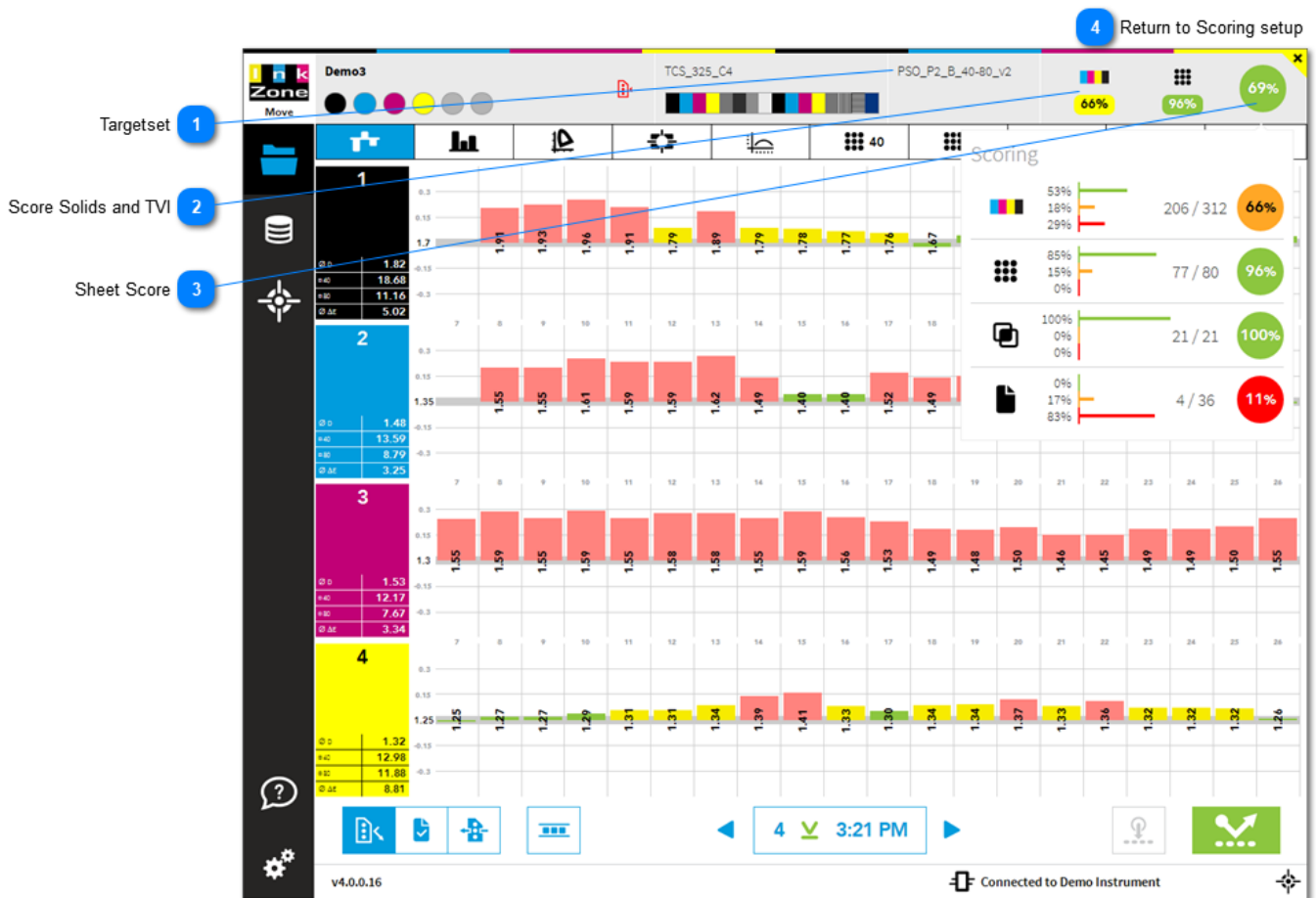
Total score. As only primaries are scored, the total score is equal to the solid primary score

4

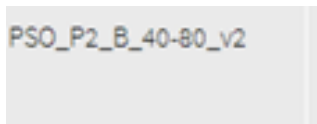
## Return to Scoring Setup

[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

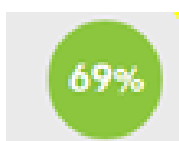


Scoring for primaries and TVI.

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..



Return to Scoring setup

[1.2.5. Scoring Setup](#)

## 1.2.5.3. Scoring Criteria

15 Go to Scoring Setup

	Enabled	Visible	Obligatory				Weight
Primary colors 1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	$\Delta E$		5 3 0	28%
Spot colors 2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	$\Delta E$		4 3 0	6%
TVI quarter tone 3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1/4		2 1 0	11%
TVI half tone 4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1/2		3 2 0	17%
TVI three quarter tone 5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	3/4		3 2 0	17%
Mid-tone spread 6	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			4 3 0	6%
Solid overprints 7	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	$\Delta E$		3 2 0	13%
Paper Delta E 8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	$\Delta E$		2 1 0	3%
Paper Delta ab 9	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ab		3 2 0	0%
Grey 25% 10	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1/4		4 3 0	0%
Grey 50% 11	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1/2		4 3 0	0%
Grey 75% 12	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3/4		4 3 0	0%
Sheet consistency 13	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>			3 2 0	0%
Total score 14	Total					68 58	100%

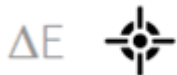
1

## Primary colors

 $\Delta E$ 

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**

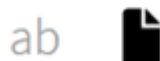
Scoring on solid overprints: CM, CY and MY (red, green, blue)

8

**Paper Delta E**

Scoring on paper, Delta E

9

**Paper Delta ab**

Scoring on paper, Delta ab

10


**Grey 25%**

1/4 

Grey value 25%

11

Grey 50%

1/2 

Grey value 50%

12

Grey 75%

3/4 

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

Total

Score on total points



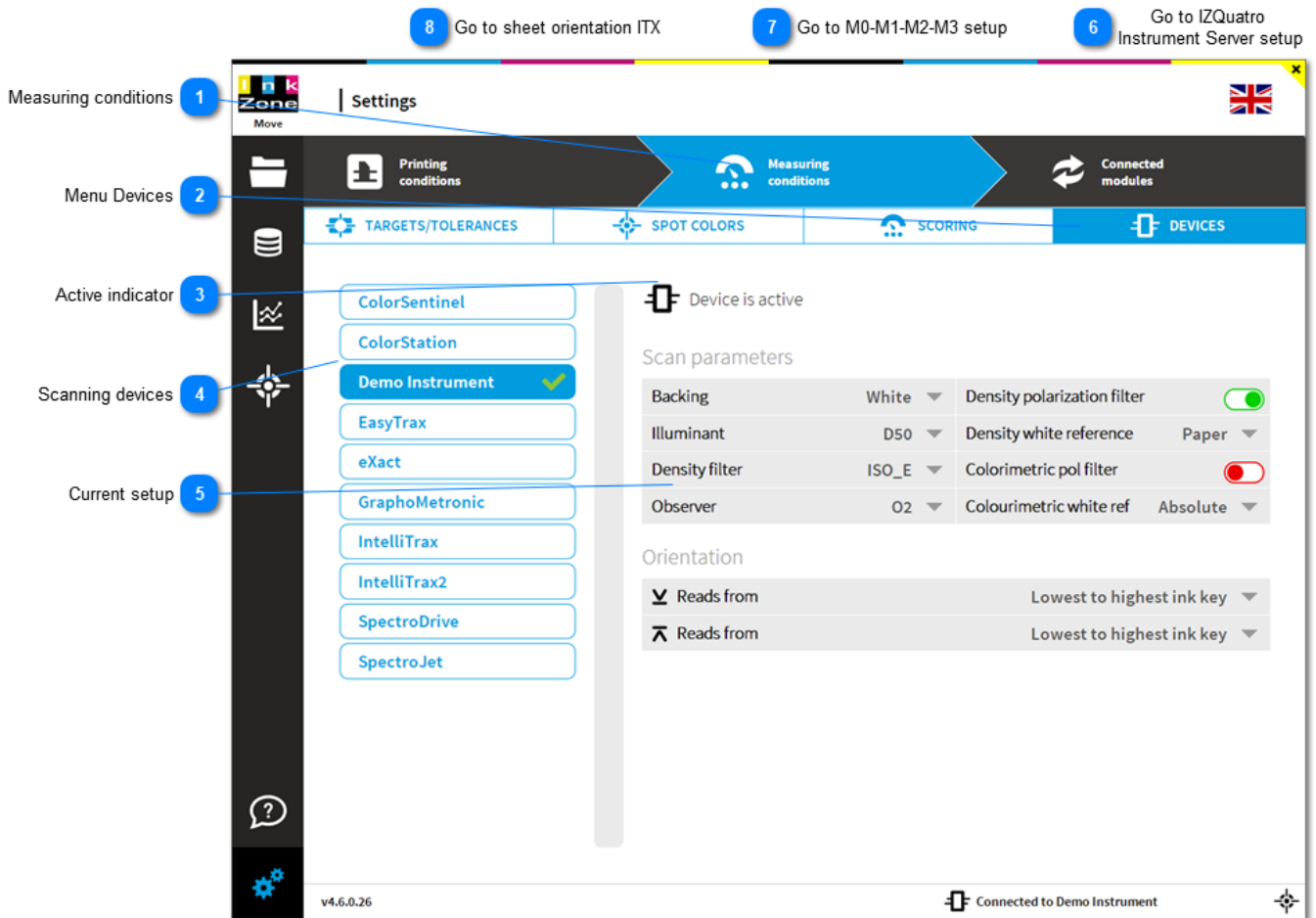
15

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

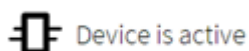
### Menu Devices



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**:



Device is not active



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

Scan parameters

Backing	White ▼	Density polarization filter	<input checked="" type="checkbox"/>
Illuminant	D50 ▼	Density white reference	Paper ▼
Density filter	ISO_E ▼	Colorimetric pol filter	<input type="checkbox"/>
Observer	O2 ▼	Colourimetric white ref	Absolute ▼

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](#)

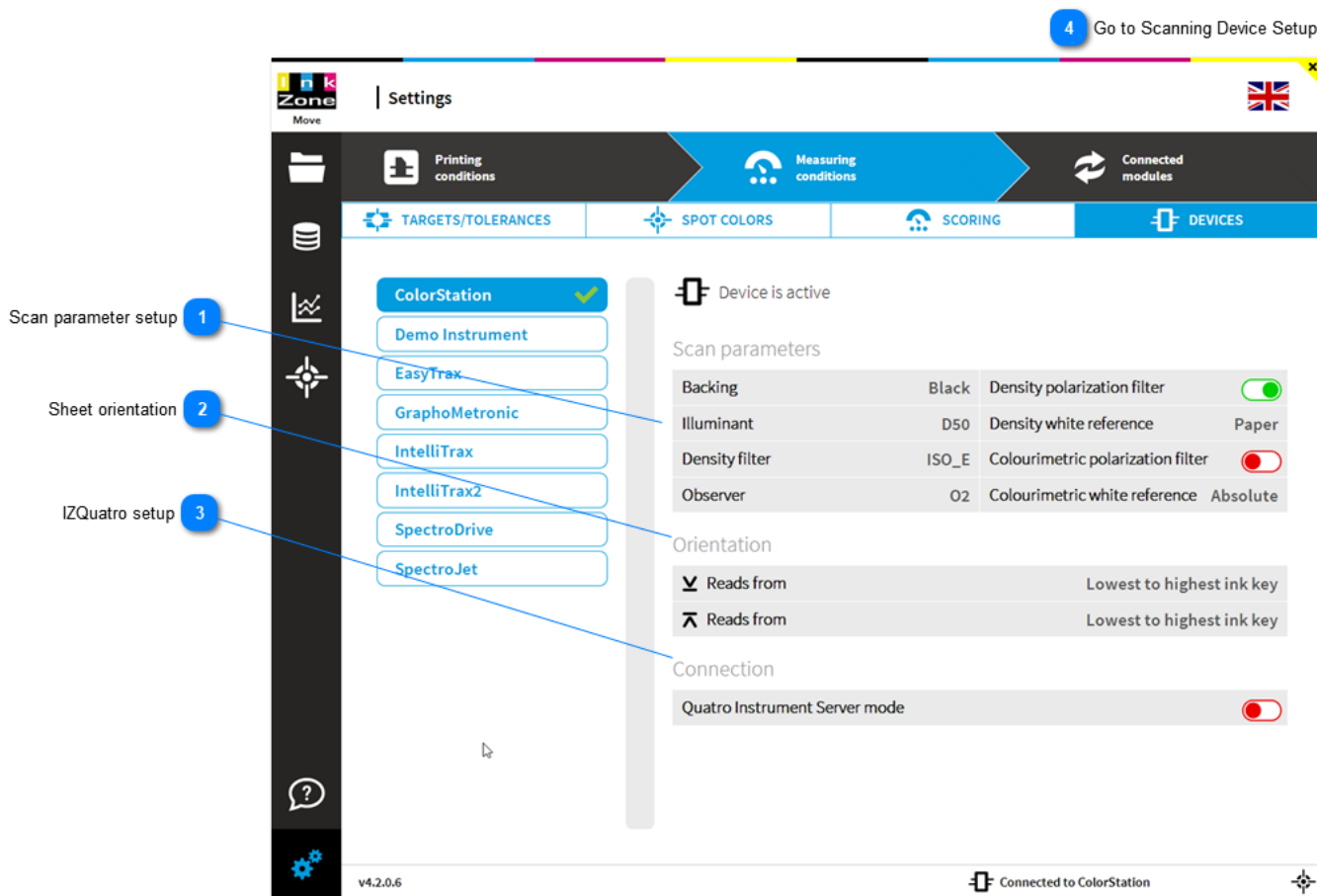
8

## 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

Scan parameters

Backing	Black	Density polarization filter	<input checked="" type="checkbox"/>
Illuminant	D50	Density white reference	Paper
Density filter	ISO_E	Colourimetric polarization filter	<input type="checkbox"/>
Observer	O2	Colourimetric white reference	Absolute

See details here: [1.2.6.9. Scan Parameter Setup](#)

2

#### Sheet orientation

Orientation

<input checked="" type="checkbox"/> Reads from	Lowest to highest ink key
<input type="checkbox"/> Reads from	Lowest to highest ink key

See details here: [1.2.6.10. Sheet Orientation](#)

3

#### IZQuatro setup

Connection

Quatro Instrument Server mode	<input type="checkbox"/>
-------------------------------	--------------------------

See details here: [1.2.6.12. Instrument Server IZQuatro](#)

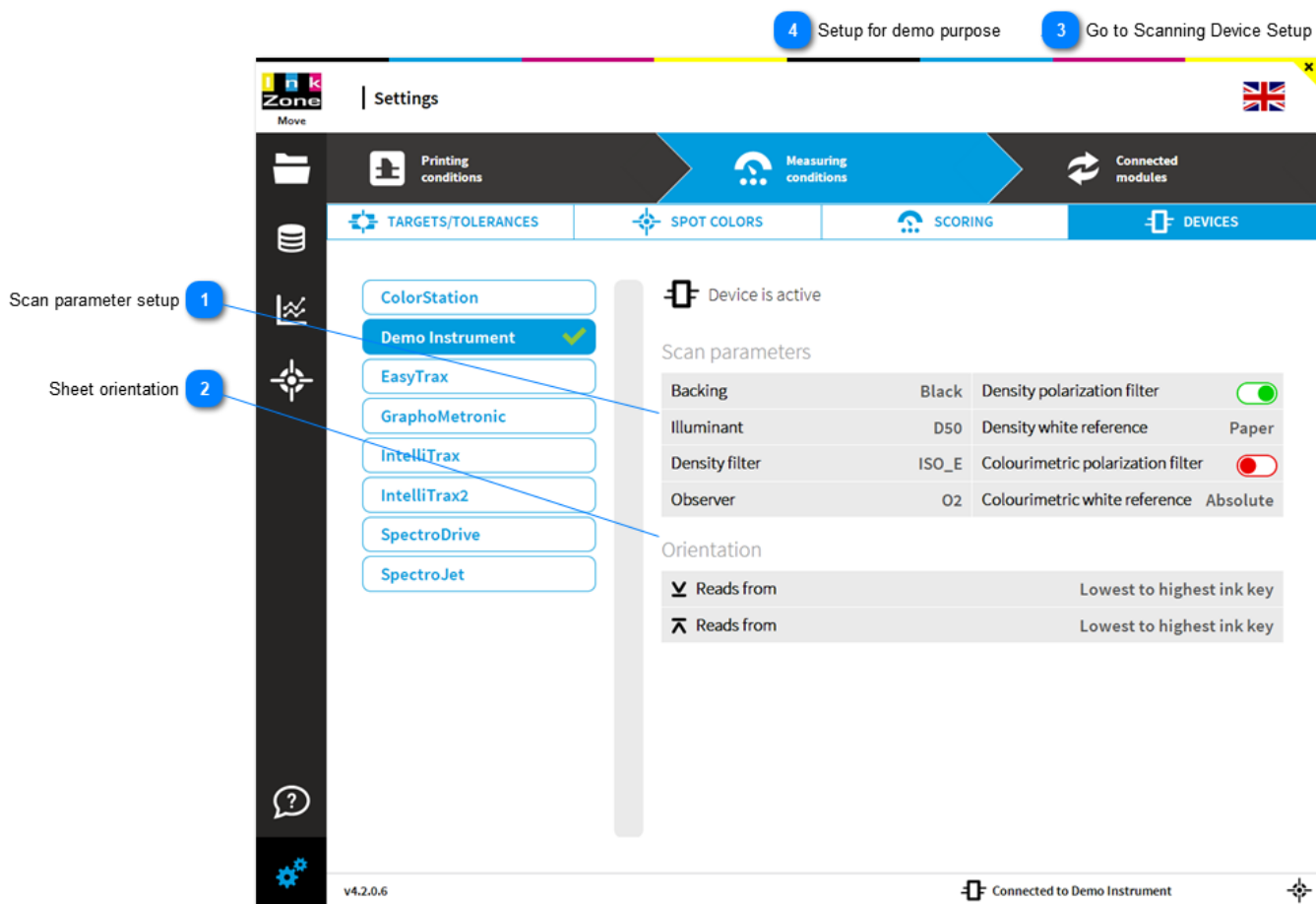


**Go to Scanning Device Setup**

[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	<input checked="" type="checkbox"/>
Illuminant	D50	Density white reference	Paper
Density filter	ISO_E	Colourimetric polarization filter	<input type="checkbox"/>
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](#)



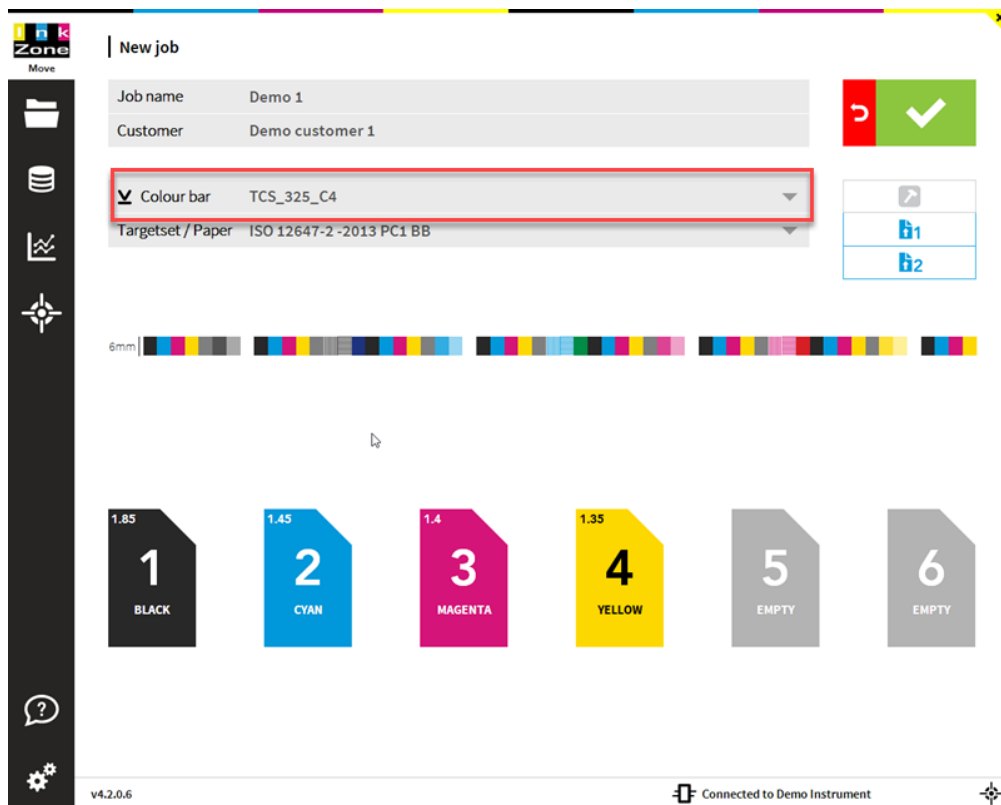
## Setup for demo purpose

Look up the how-to for using the demo instrument.  
See here [1.2.6.2.1. Setup for Demo Purposes](#)

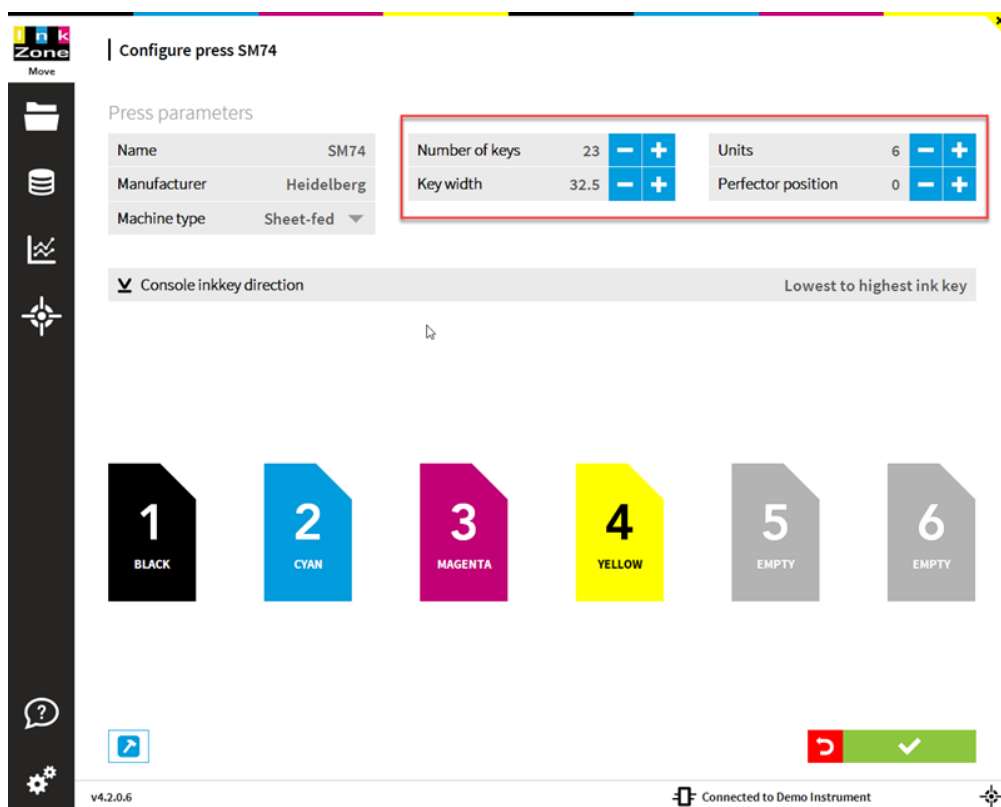
### 1.2.6.2.1. Setup for Demo Purposes

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

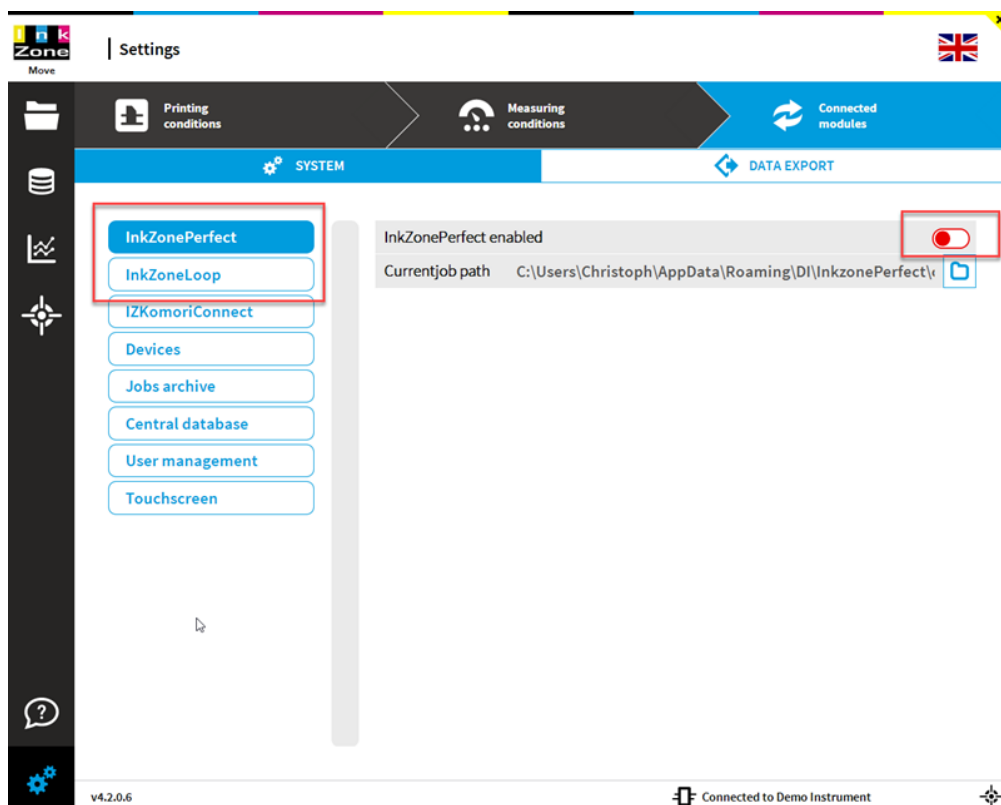
**Step 1:** Use TCS\_325\_C4 as the colorbar:



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

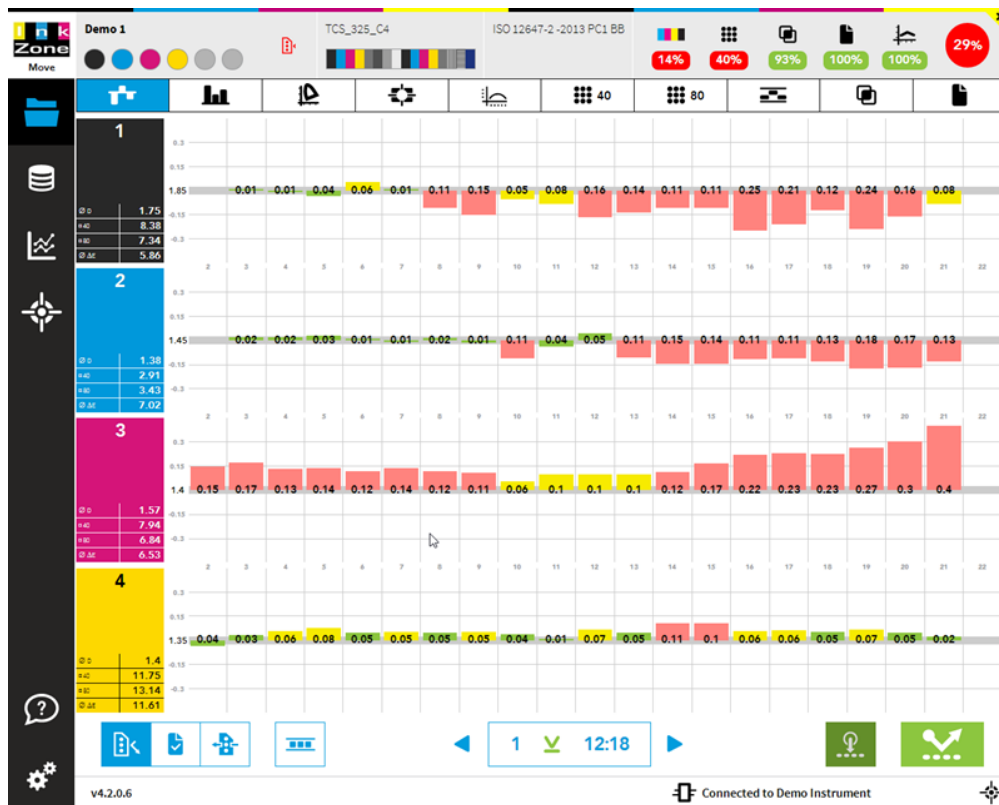


**Step 3:** Enable InkZonePerfect / InkZoneLoop when the programs are installed otherwise turn them both off:



**Step 4:** Measurement view after first scan





## 1.2.6.3. EasyTrax

4 Specifications 5 Go to Scanning Instrument Setup

Scan parameter setup 1

Sheet orientation 2

IZQuatro setup 3

4 Specifications 5 Go to Scanning Instrument Setup

Settings

Printing conditions Measuring conditions Connected modules

TARGETS/TOLERANCES SPOT COLORS SCORING DEVICES

ColorStation Demo Instrument **EasyTrax** ✓ GraphoMetronie IntelliTrax IntelliTrax2 SpectroDrive SpectroJet

Device is active

Scan parameters

Backing	Black	Density polarization filter	<input checked="" type="checkbox"/>
Illuminant	D50	Density white reference	Paper
Density filter	ISO_E	Colourimetric polarization filter	<input type="checkbox"/>
Observer	O2	Colourimetric white reference	Absolute

Orientation

☒ Reads from Lowest to highest ink key

☐ Reads from Lowest to highest ink key

Connection

Quatro Instrument Server mode ☐

v4.2.0.6 Connected to Demo Instrument

1

## Scan parameter setup

Scan parameters

Backing	Black	Density polarization filter	<input checked="" type="checkbox"/>
Illuminant	D50	Density white reference	Paper
Density filter	ISO_E	Colourimetric polarization filter	<input type="checkbox"/>
Observer	O2	Colourimetric white reference	Absolute

See details here: [1.2.6.9. Scan Parameter Setup](#)

2

## Sheet orientation

Orientation

<input checked="" type="checkbox"/> Reads from	Lowest to highest ink key
<input type="checkbox"/> Reads from	Lowest to highest ink key

See details here: [1.2.6.10. Sheet Orientation](#)

3

## IZQuatro setup

Connection

Quatro Instrument Server mode	<input type="checkbox"/>
-------------------------------	--------------------------

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.

4 Return to Scanning Device Setup

Scan parameter setup 1

Sheet orientation 2

Web parameter 3

4 Return to Scanning Device Setup

Settings

Printing conditions

Measuring conditions

Connected modules

TARGETS/TOLERANCES

SPOT COLORS

SCORING

DEVICES

ColorStation

Demo Instrument

EasyTrax

GraphoMetronic

IntelliTrax

IntelliTrax2

SpectroDrive

SpectroJet

Device is active

Scan parameters

Backing	Black	Density polarization filter	<input checked="" type="checkbox"/>
Illuminant	D50	Density white reference	Paper
Density filter	ISO_E	Colourimetric polarization filter	<input type="checkbox"/>
Observer	O2	Colourimetric white reference	Absolute

Orientation

Reads from Lowest to highest ink key

Reads from Lowest to highest ink key

Connection

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

v4.2.0.6

Connected to GraphoMetronic

1

#### Scan parameter setup

Scan parameters

Backing	Black	Density polarization filter	<input checked="" type="checkbox"/>
Illuminant	D50	Density white reference	Paper
Density filter	ISO_E	Colourimetric polarization filter	<input type="checkbox"/>
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
---------------	---



## Return to Scanning Device Setup

### [1.2.6. Scanning Device Setup](#)

## 1.2.6.5. IntelliTrax

5 Specifications 4 Go to Scanning Device Setup

**Settings**

Printing conditions Measuring conditions Connected modules

TARGETS/TOLERANCES SPOT COLORS SCORING **DEVICES**

ColorStation Demo Instrument EasyTrax GraphoMetronic **IntelliTrax** IntelliTrax2 SpectroDrive SpectroJet

Device is active

Scan parameters

Backing	Black	Density polarization filter	<input checked="" type="checkbox"/>
Illuminant	D50	Density white reference	Paper
Density filter	ISO_E	Colourimetric polarization filter	<input type="checkbox"/>
Observer	O2	Colourimetric white reference	Absolute

Orientation

☒ Reads from Highest to lowest key

☒ Reads from Highest to lowest key

Connection

Quatro Instrument Server mode ☐

v4.2.0.6 Connected to IntelliTrax

1

**Scan parameter setup**

Scan parameters

Backing	Black	Density polarization filter	<input checked="" type="checkbox"/>
Illuminant	D50	Density white reference	Paper
Density filter	ISO_E	Colourimetric polarization filter	<input type="checkbox"/>
Observer	O2	Colourimetric white reference	Absolute

See details here: [1.2.6.9. Scan Parameter Setup](#)

2

**Sheet orientation**

Orientation

<input checked="" type="checkbox"/> Reads from	Highest to lowest key
<input checked="" type="checkbox"/> 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	<input type="checkbox"/>
-------------------------------	--------------------------

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

6 Specification 5 Go to Scanning Device Setup

**Settings**

Printing conditions Measuring conditions Connected modules

TARGETS/TOLERANCES SPOT COLORS SCORING **DEVICES**

Scan parameter setup 1

Sheet orientation 2

Scan modes 3

IZQuatro setup 4

ColorStation  
Demo Instrument  
EasyTrax  
GraphoMetronic  
IntelliTrax  
**IntelliTrax2** ✓  
SpectroDrive  
SpectroJet

Device is active

Scan parameters

Backing	Black	Density polarization filter	<input checked="" type="checkbox"/>
Illuminant	D50	Density white reference	Paper
Density filter	ISO_E	Colourimetric polarization filter	<input type="checkbox"/>
Observer	O2	Colourimetric white reference	Absolute

Orientation

Reads from Highest to lowest key

Reads from Highest to lowest key

Connection

Scan mode M0

Quatro Instrument Server mode ☐

v4.2.0.6 Connected to IntelliTrax

1

## Scan parameter setup

Scan parameters

Backing	Black	Density polarization filter	<input checked="" type="checkbox"/>
Illuminant	D50	Density white reference	Paper
Density filter	ISO_E	Colourimetric polarization filter	<input type="checkbox"/>
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	<input type="checkbox"/>
-------------------------------	--------------------------



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

10 Troubleshooting 11 Specifications 12 Return to Scanning Device Setup

Settings

Printing conditions Measuring conditions Connected modules

TARGETS/TOLERANCES SPOT COLORS SCORING DEVICES

ColorSentinel ColorStation Demo Instrument EasyTrax GraphoMetronic IntelliTrax IntelliTrax2 SpectroDrive SpectroJet

Device is active

Scan parameters

Backing	Black	Density polarization filter	<input checked="" type="checkbox"/>
Illuminant	D50	Density white reference	Paper
Density filter	ISO_E	Colorimetric pol filter	<input type="checkbox"/>
Observer	O2	Colourimetric white ref	Absolute

Orientation

Reads from Lowest to highest ink key

Reads from Lowest to highest ink key

Connection

Device generation	2
Serial	B711528
Wireless channel	Automatic
Scan mode	M0
Quatro Instrument Server mode	<input type="checkbox"/>

1

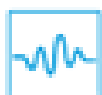
## Measure track length



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

Scan parameters

Backing	Black	Density polarization filter	<input checked="" type="checkbox"/>
Illuminant	D50	Density white reference	Paper
Density filter	ISO_E	Colorimetric pol filter	<input type="checkbox"/>
Observer	O2	Colourimetric white ref	Absolute

See details here: [1.2.6.9. Scan Parameter Setup](#)

4

### 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](#)

5

### Generation

Device generation

2

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

B711528



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

7

### Wi-Fi Channel

Wireless channel

Automatic ▼

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

Scan mode

M0 ▼

See here the instrument measurement conditions: [1.2.6.11. Measurement Conditions M0 - M1 - M2 - M3](#)

9

### IZQuatro setup

Quatro Instrument Server mode



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

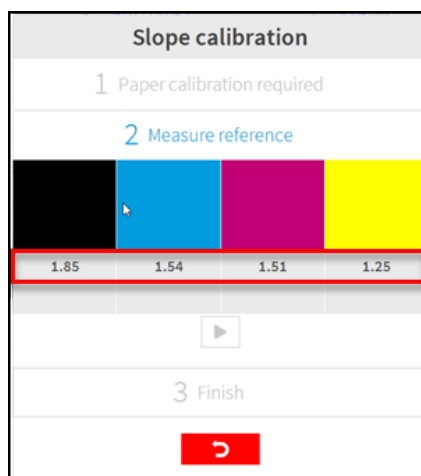
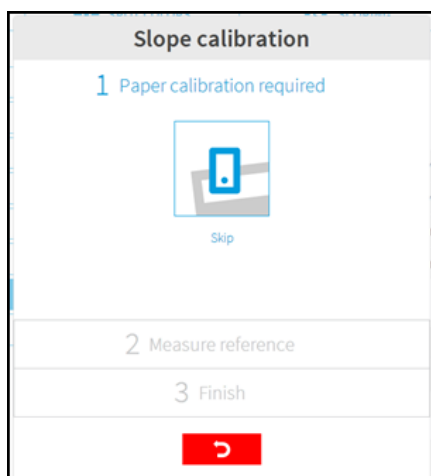
## **12** Return to Scanning Device Setup

### [1.2.6.9. Scan Parameter Setup](#)

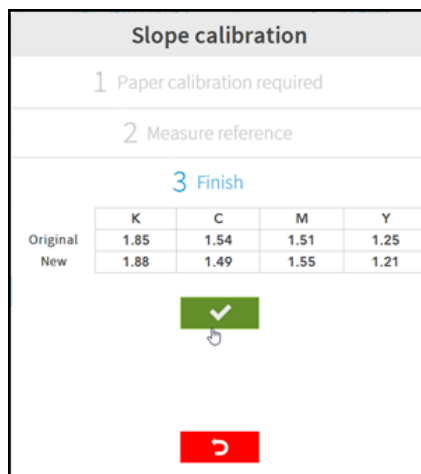
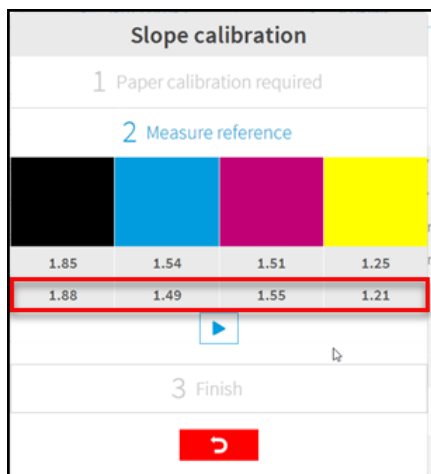
### 1.2.6.7.1. Slope Calibration

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

4 Specifications    5 Return to Scanning Device Setup

Scan parameter setup 1

Sheet orientation 2

IZQuatro setup 3

ColorStation

Demo Instrument

EasyTrax

GraphoMetronic

IntelliTrax

IntelliTrax2

SpectroDrive

SpectroJet ✓

Device is active

Scan parameters

Backing	Black	Density polarization filter	<input checked="" type="checkbox"/>
Illuminant	D50	Density white reference	Paper
Density filter	ISO_E	Colourimetric polarization filter	<input type="checkbox"/>
Observer	O2	Colourimetric white reference	Absolute

Orientation

Reads from Lowest to highest ink key

Reads from Lowest to highest ink key

Connection

Quatro Instrument Server mode ☐

v4.2.0.6

Connected to SpectroJet

1

## Scan parameter setup

Scan parameters

Backing	Black	Density polarization filter	<input checked="" type="checkbox"/>
Illuminant	D50	Density white reference	Paper
Density filter	ISO_E	Colourimetric polarization filter	<input type="checkbox"/>
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	<input type="checkbox"/>
-------------------------------	--------------------------

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

Scan parameters							
Instrument backing	1	Backing	Black	Density polarization filter	<input checked="" type="checkbox"/>	5	Polarization density
Illumination	2	Illuminant	D50	Density white reference	Paper	6	White reference density
Density filter	3	Density filter	ISO_E	Colourimetric polarization filter	<input type="checkbox"/>	7	Polarization colorimetric
Observer	4	Observer	O2	Colourimetric white reference	Absolute	8	White reference colorimetric

1

#### Instrument backing

Backing

Black

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**

Illuminant

D50

Select the illumination.

3

**Density filter**

Density filter

ISO\_E

Select the density filter.

4

**Observer**

Observer

O2

Select the observer.

5

**Polarization density**

Density polarization filter



Activate/deactivate the polarization filter for density reading

6

**White reference density**

Density white reference

Paper

Select the white reference for density measurement.

7

**Polarization colorimetric**

Colourimetric polarization filter



Activate/deactivate the polarization filter for colorimetric reading

8

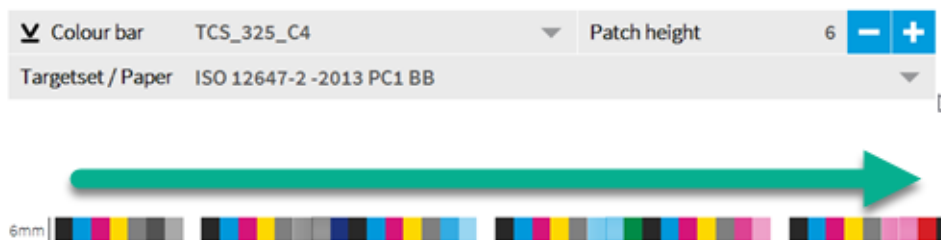
**White reference colorimetric**

Colourimetric white reference Absolute

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:

**Case 1**  
Instrument head reads sheet like shown:

Print Sheet  
ink key direction

Console keys

Key:1 → Key: 32

Scan direction = Lowest to highest key  
Console ink key = Lowest to highest

The 1<sup>st</sup> patch is on the left (the cyan patch in the above example)

**Case 2**  
Instrument head reads sheet like shown:

Print Sheet  
ink key direction

Console keys

Key:1 → Key: 32

Scan direction = Highest to lowest key  
Console ink key = Lowest to highest

The 1<sup>st</sup> patch is on the left (the cyan patch in the above example)

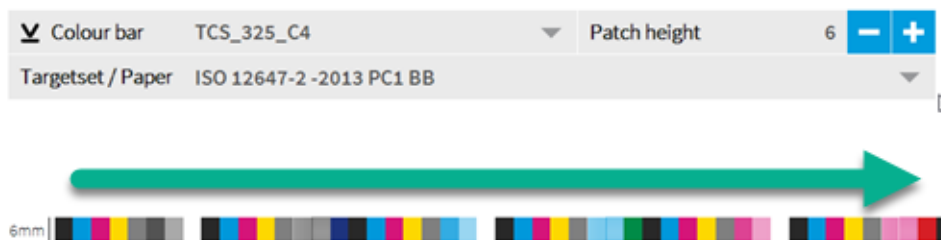
1 Return to  
Scan Instrument Setup

1 Return to  
Scan Instrument Setup

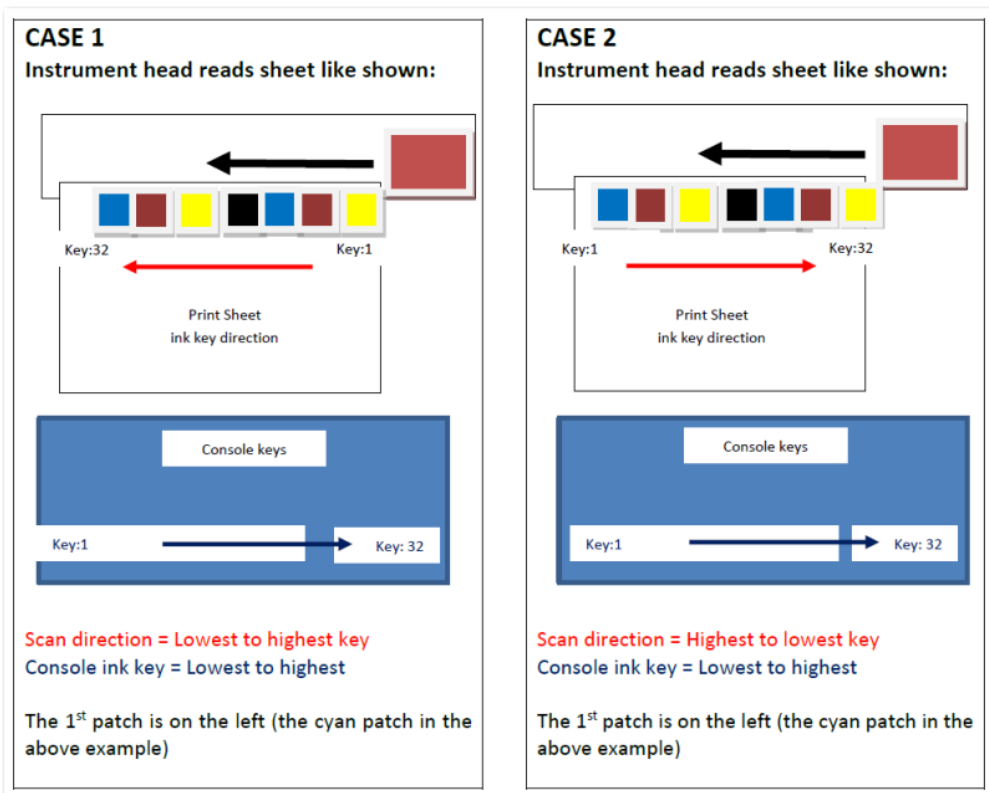
[1.2.6. Scanning Device Setup](#)

### 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 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)

2 Return to Device Setup

Settings

Printing conditions | Measuring conditions | Connected modules

TARGETS/TOLERANCES | SPOT COLORS | SCORING | **DEVICES**

Demo Instrument ✓

EasyTrax

GraphoMetronic

IntelliTrax

**IntelliTrax2**

SpectroDrive

SpectroJet

Device is not active **ACTIVATE**

Scan parameters

Backing	Black	Density polarization filter	<input checked="" type="checkbox"/>
Illuminant	D50	Density white reference	Paper
Density filter	ISO_E	Colourimetric polarization filter	<input type="checkbox"/>
Observer	O2	Colourimetric white reference	Absolute

**M0**

M1

M2

M3

Scan mode M0

Quatro Instrument Server mode ☐

v4.0.0.16 Connected to Demo Instrument

1

#### Scan mode

M0

M1

M2

M3

Scan mode M0

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](http://issuu.com/konicaminoltabeu/docs/iso13655_demystified_e/1?e=0)



Return to Device Setup

[1.2.6. Scan Device Setup](#)

## 1.2.6.12. Instrument Server IZQuatro

2 Go to Scan Device Setup

IZQuatro Server Setup 1

1

## IZQuatro Server Setup

## Connection

Quatro Instrument Server mode	<input checked="" type="checkbox"/>
Path	C:\Users\ceede\Documents\InstrumentServer

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

6 Specification 5 Go to Scanning Device Setup

Settings

Printing conditions Measuring conditions Connected modules

TARGETS/TOLERANCES SPOT COLORS SCORING DEVICES

Scan parameter setup 1

Sheet orientation 2

Patches 3

Scan modes 4

ColorSentinel

ColorStation

Demo Instrument

EasyTrax

eXact

GraphoMetronic

IntelliTrax

IntelliTrax2

SpectroDrive

SpectroJet

Device is active

Scan parameters

Backing	Black	Density polarization filter	<input checked="" type="checkbox"/>
Illuminant	D50	Density white reference	Paper
Density filter	ISO_E	Colorimetric pol filter	<input type="checkbox"/>
Observer	O2	Colourimetric white ref	Absolute

Orientation

Reads from Lowest to highest ink key

Reads from Lowest to highest ink key

Connection

Scan mode Patches 200 - +

v4.6.0.26

1

## Scan parameter setup

Scan parameters

Backing	Black	Density polarization filter	<input checked="" type="checkbox"/>
Illuminant	D50	Density white reference	Paper
Density filter	ISO_E	Colorimetric pol filter	<input type="checkbox"/>
Observer	O2	Colourimetric white ref	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: [1.2.6.10.1. Sheet Orientation IntelliTrax](#)

3

## Patches

Patches 200 - +

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

4

## Scan modes



Scan mode ▼

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

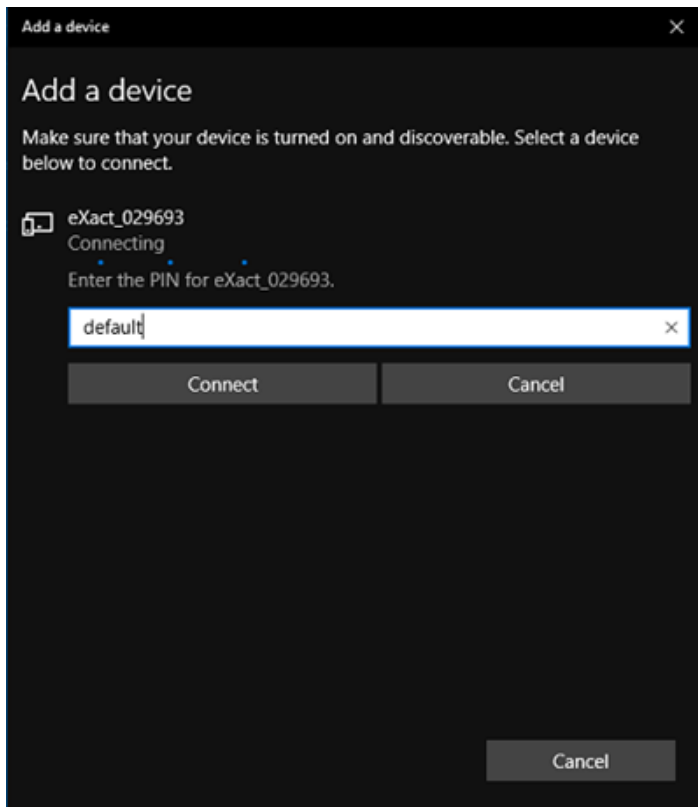
Specification

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: <a href="#">Min Patch size X-Rite tech support</a>
Size	up to 65"
Connected by	USB and Bluetooth See: <a href="#">1.2.6.13.1. Connect by Bluetooth</a>
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.

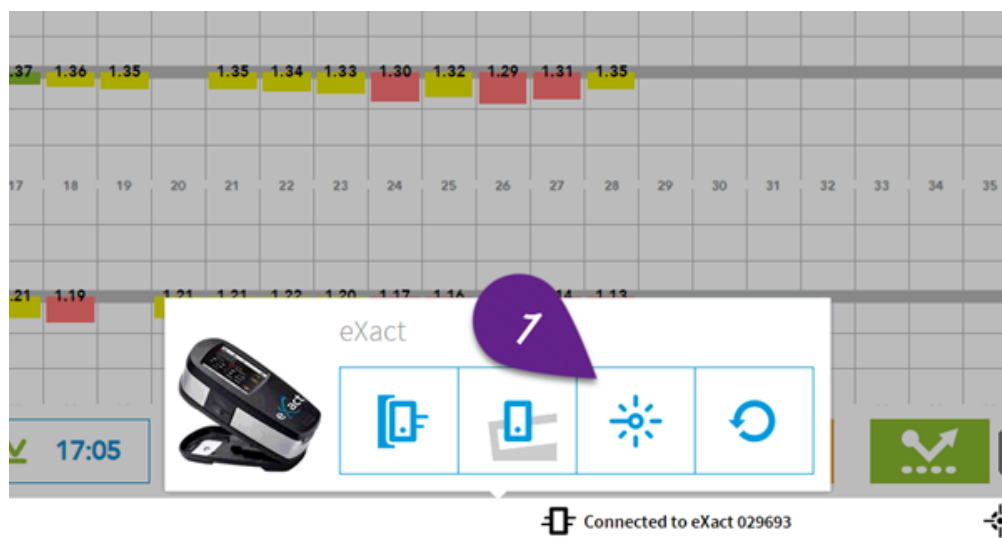
Note: the grey symbol means no connection!



### 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.

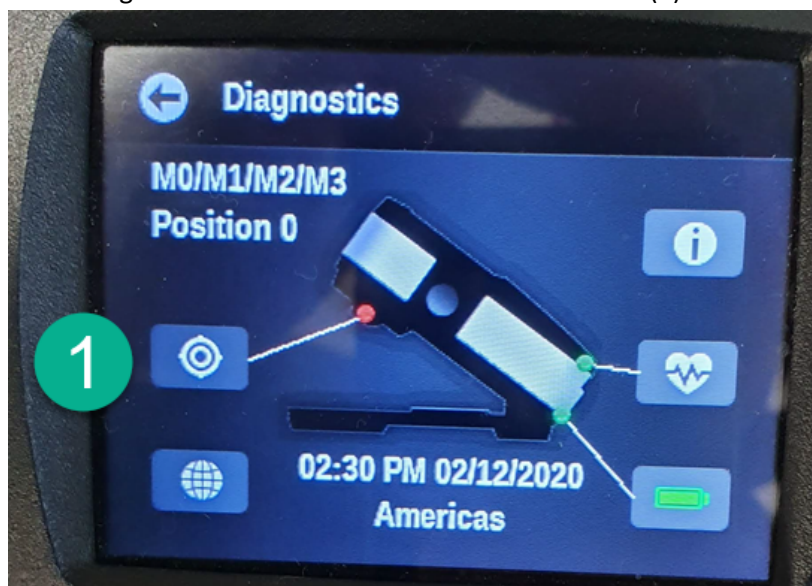
There is no button to switch it off manually.



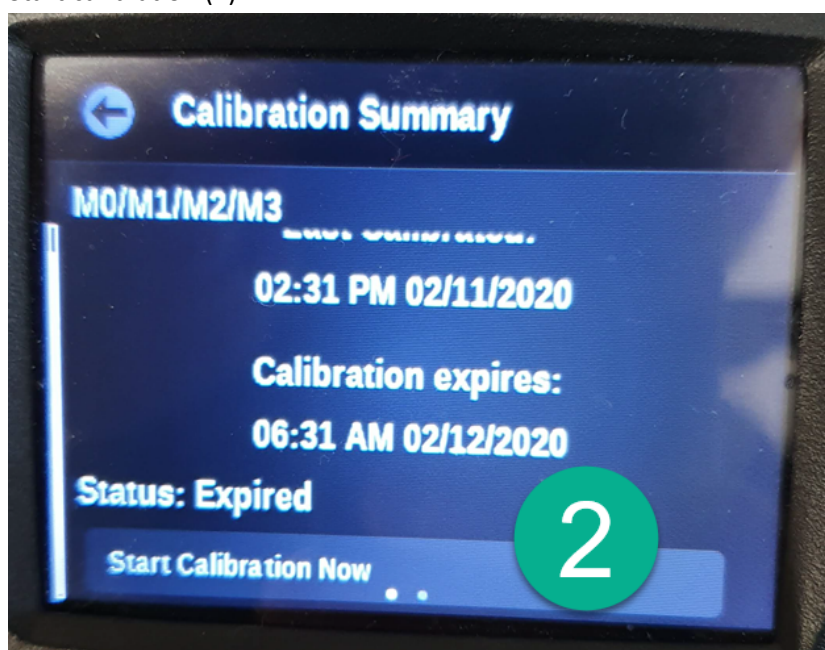
#### 1.2.6.13.4. White Base Calibration

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

4 Specifications 5 Return to Scanning Device Setup

Settings

Printing conditions Measuring conditions Connected modules

TARGETS/TOLERANCES SPOT COLORS SCORING DEVICES

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ColorSentinel

ColorStation

DemoInstrument

EasyTrax

eXact

EyeOne

GICS

GraphoMetronic

IntelliTrax

IntelliTrax2

SpectroDens

SpectroDrive

SpectroJet

Webtech

Device is active

Scan parameters

Backing	Black	Density polarization filter	<input checked="" type="checkbox"/>
Illuminant	D50	Density white reference	Paper
Density filter	ISO_E	Colorimetric pol filter	<input type="checkbox"/>
Observer	O2	Colourimetric white ref	Absolute

Orientation

Reads from Lowest to highest ink key

Reads from Lowest to highest ink key

Connection

Scan mode M0

Enable Wifi ☒ Device IP address 192.168.43.6

v4.7.0.41 Connecting to instrument

1

## Scan parameter setup

Scan parameters

Backing	Black	Density polarization filter	<input checked="" type="checkbox"/>
Illuminant	D50	Density white reference	Paper
Density filter	ISO_E	Colorimetric pol filter	<input type="checkbox"/>
Observer	O2	Colourimetric white ref	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

## Connection

Connection

Scan mode	M0
Enable Wifi	<input checked="" type="checkbox"/>
Device IP address	192.168.43.6

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

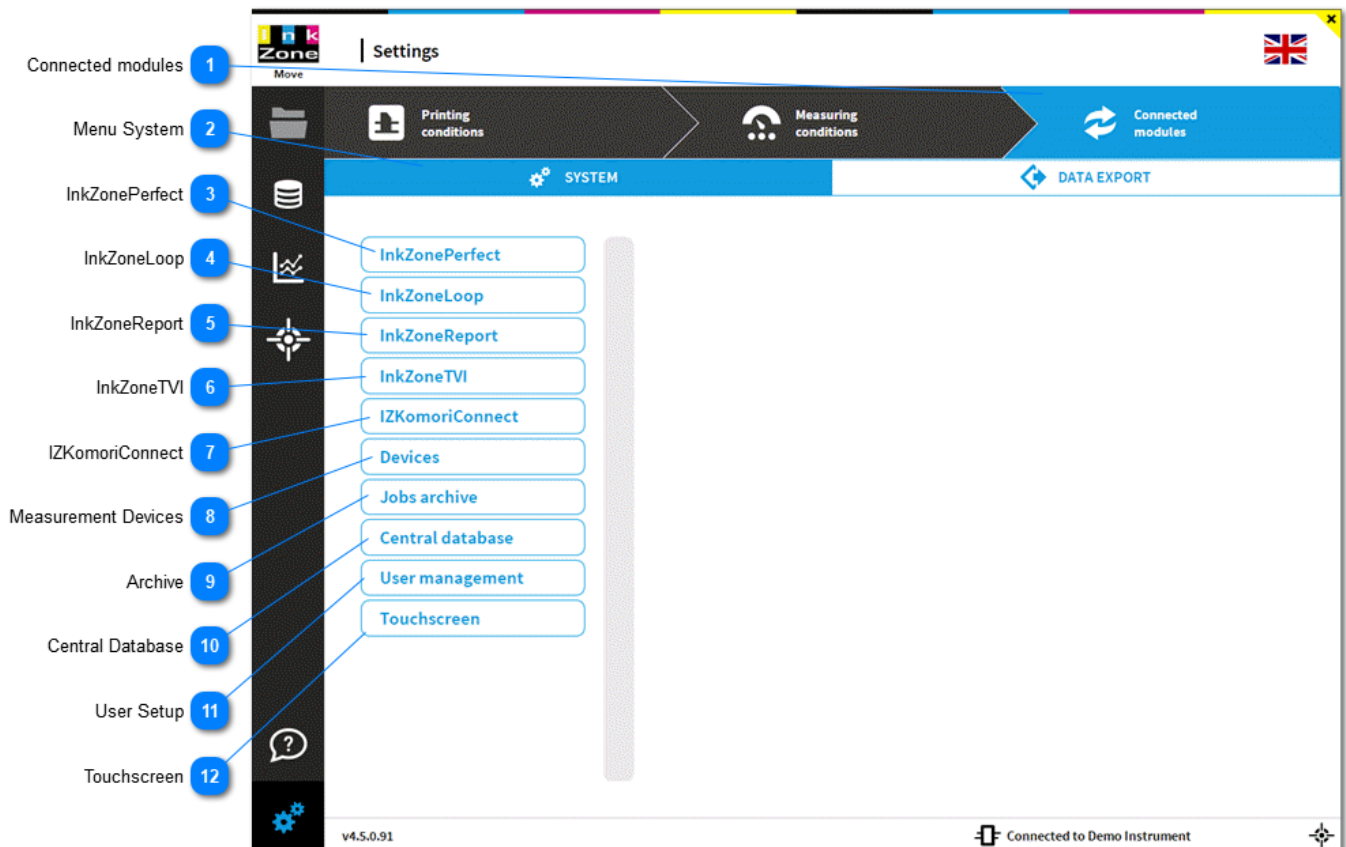
Producer	Techkon
Min. patch size	6 mm without contrast bar (patch separator)
Scan length max	200 patches in 10 sec
Connected by	USB or WiFi
Measurement Conditions	M0, M1, M2, M3
Comment	Colorbar scanning for color-control is only supported with SpectroDens Premium

5

## Return to Scanning Device Setup

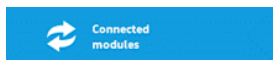
### [1.2.6. Scanning Device Setup](#)

### 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.

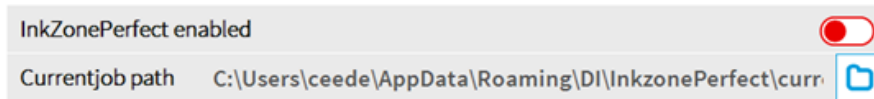
After the activation, a new job from always starts from InkZonePerfect by selecting the prepared CIP3 data with job name and color separation.

#### 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](#)

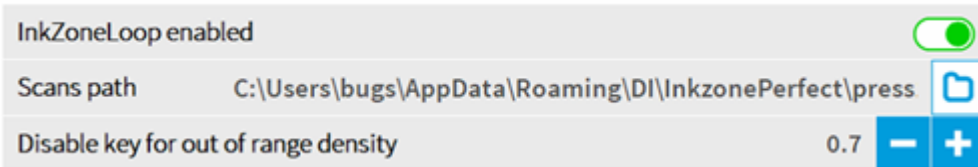




4

## InkZoneLoop

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

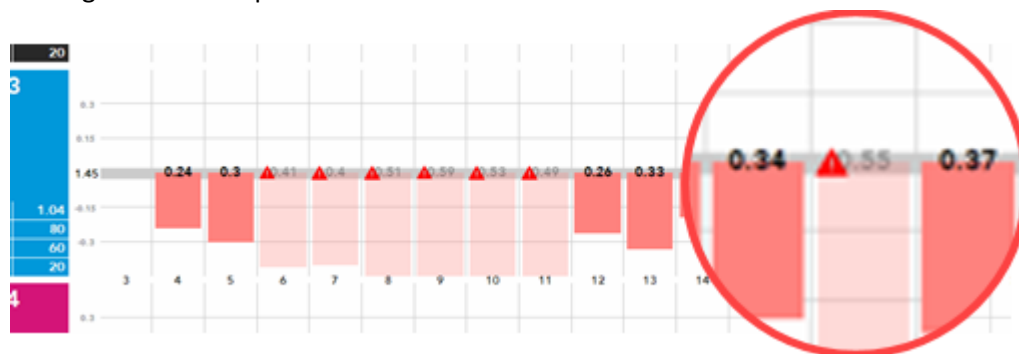
Measurement = 0.3

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

InkZoneReport

**Company name and logo**

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

Company name	DI
Company logo path	C:\logos\logo_digiinfo_cmyk.tif  

**PDF job name setup**

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

## Printed report filename template

<job>, <date>, <time>, <sheet\_number>, <sheet\_report>, <production\_report>

Sheet report	<job>_<sheet_report>_<date>_<time>_<sheet_
Print Production-Report	<job>_<production_report>_<date>_<time>

<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](#)

## Email sending

SMTP host	smtp.gmail.com		SMTP port	465
Use authentication	<input checked="" type="checkbox"/>	Username	Press room SM102-6	Password
Send mail as	pressroom@gmail.com			

**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](#)

## Approved recipients

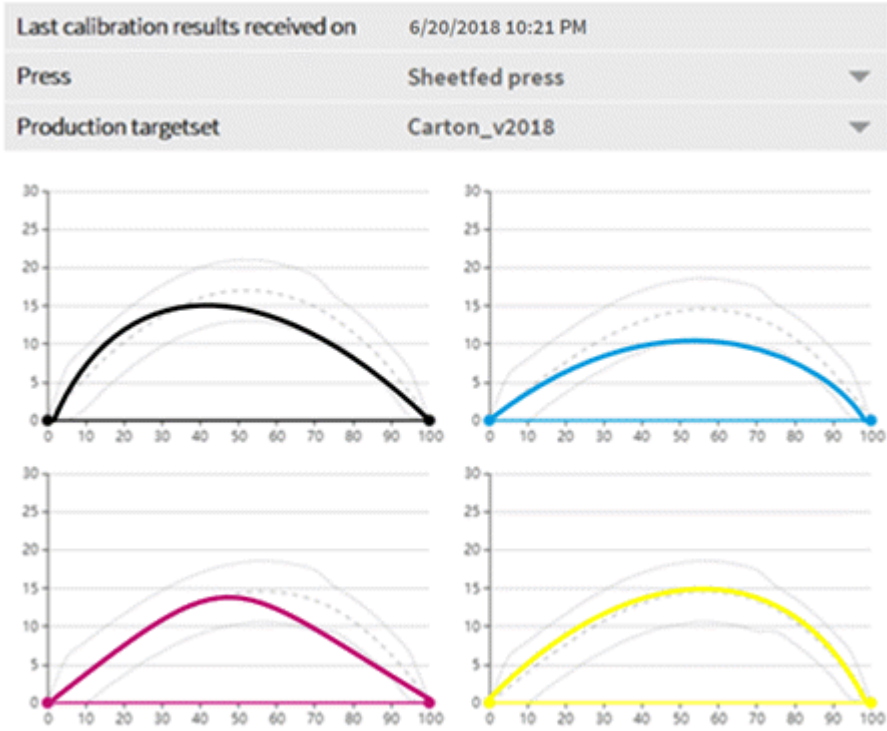
Name	QC	Email address	qc@printer.com	Address type	Internal	
Name	PrintBuyer1	Email address	purchase@prnbuyer.com	Address type	Customer	

6

**InkZoneTVI**

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

IZKomoriConnect enabled		<input checked="" type="checkbox"/>
1 Komori CLC program	C:\PDCS	<input type="button" value="Folder"/>
2 CLC version	3	3 COM port
4 ClosedLoop mode	Semi Auto	
5 Wait for both sides before sending PDCS data		<input type="checkbox"/>

- |   |                        |  |
|---|------------------------|--|
| 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:

Switchbox

Enabled ☐

1 IP address Relay channel 1 2

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:

Job file pickup

Enable job file pickup ☒

1 Komori job file path C:\Komori\kms4\Status

2 Set job name from project and job name ☐

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.

Commands path	C:\Users\ceede\AppData\Roaming\DI\InkzoneMove\comm	<input type="text"/>
Scans path	C:\Users\ceede\AppData\Roaming\DI\InkzoneMove3\press	<input type="text"/>
Colorbar path	C:\Users\ceede\AppData\Roaming\DI\InkzoneMove3\press	<input type="text"/>

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.

Database size / free space remaining	17.0 MB / 25%
Archive jobs if free percentage is less than	15% <input type="text"/> <input type="text"/>
Archive path	<input type="text"/>

10

**Central Database****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****User management**

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

Enable user accounts



Users

admin



+ CREATE USER

12

**Touchscreen****Touchscreen**

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

Enable touchscreen features



### 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.

The screenshot shows a configuration window with two tabs: **SPOT COLOURS** (selected) and **IZTVI**. Below the tabs, there are two server configurations, Server 1 and Server 2. Each server has a set of settings and a delete button (red X icon).

Server	Enabled	IP address	Pull data	Status	Push data	Status
Server 1	<input checked="" type="checkbox"/>	192.168.17.88	<input checked="" type="checkbox"/>	6/20/2018 10:21 PM	<input checked="" type="checkbox"/>	Unknown
Server 2	<input checked="" type="checkbox"/>	192.168.17.89	<input checked="" type="checkbox"/>	6/20/2018 10:21 PM	<input checked="" type="checkbox"/>	Unknown

Annotations in the image:

- 1: Settings Server 1
- 2: Pull setup
- 3: Push setup
- 4: Settings Server 2
- 5: Delete

#### 1 Settings Server 1

This block shows the detailed settings for Server 1. It includes a delete button (red X icon) and the following settings:

Setting	Value
Enabled	<input checked="" type="checkbox"/>
IP address	192.168.17.88
Pull data	<input checked="" type="checkbox"/>
Status	6/20/2018 10:21 PM
Push data	<input checked="" type="checkbox"/>
Status	Unknown

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

#### 2 Pull setup

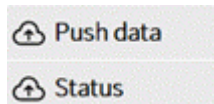
This block shows the pull setup configuration options. It includes a delete button (red X icon) and the following settings:

Setting	Value
Pull data	<input checked="" type="checkbox"/>
Status	Unknown

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

Server 2		
Enabled	<input checked="" type="checkbox"/>	
IP address	192.168.17.89	
Pull data	<input checked="" type="checkbox"/>	
Status	6/20/2018 10:21 PM	
Push data	<input checked="" type="checkbox"/>	

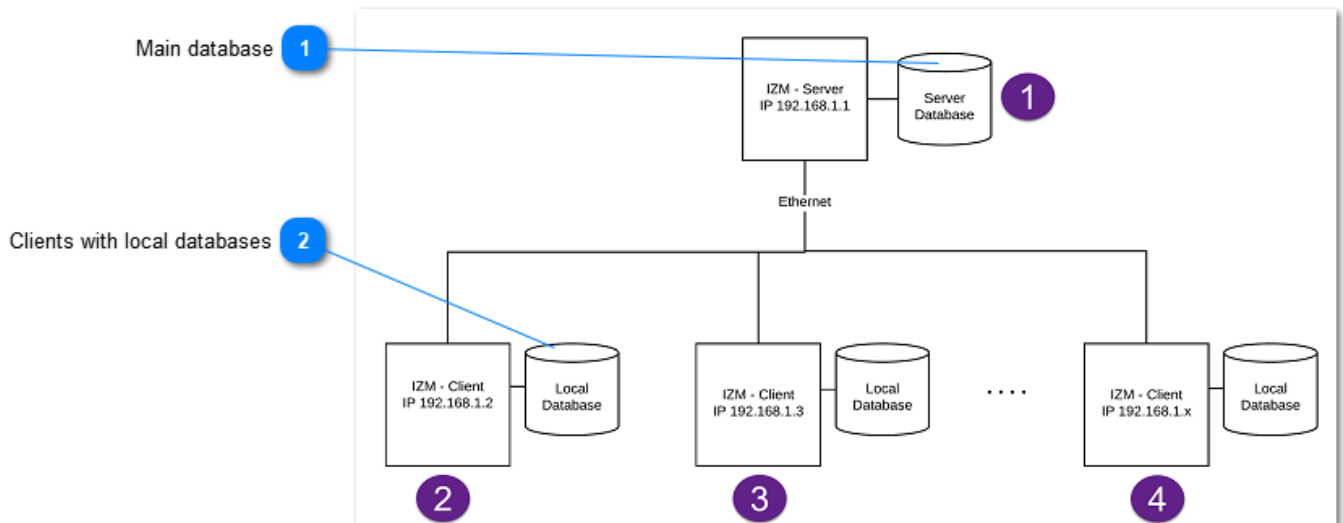
Settings for next server

**5** Delete

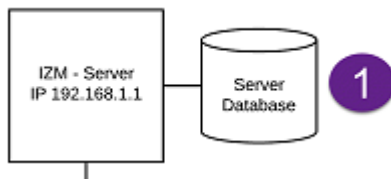
Delete the server setup.



### 1.2.7.1.1. Sample InkZoneMove with Centralized Database



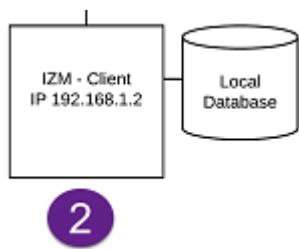
#### 1 Main database



#### 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](#)

#### 2 Clients with local databases



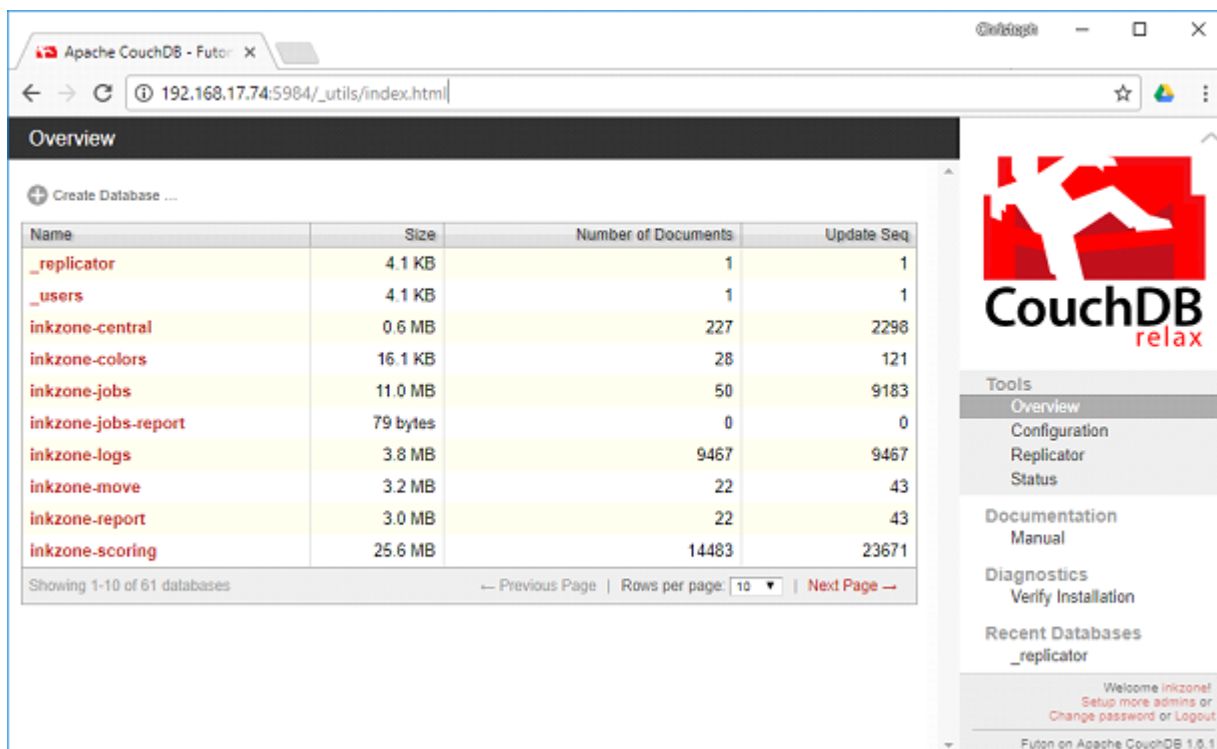
#### Test at the InkZoneMove client

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](http://SERVER_IP:5984/_utils/config.html) (replace SERVER\_IP with the real ip address)

username    inkzone  
password    testing





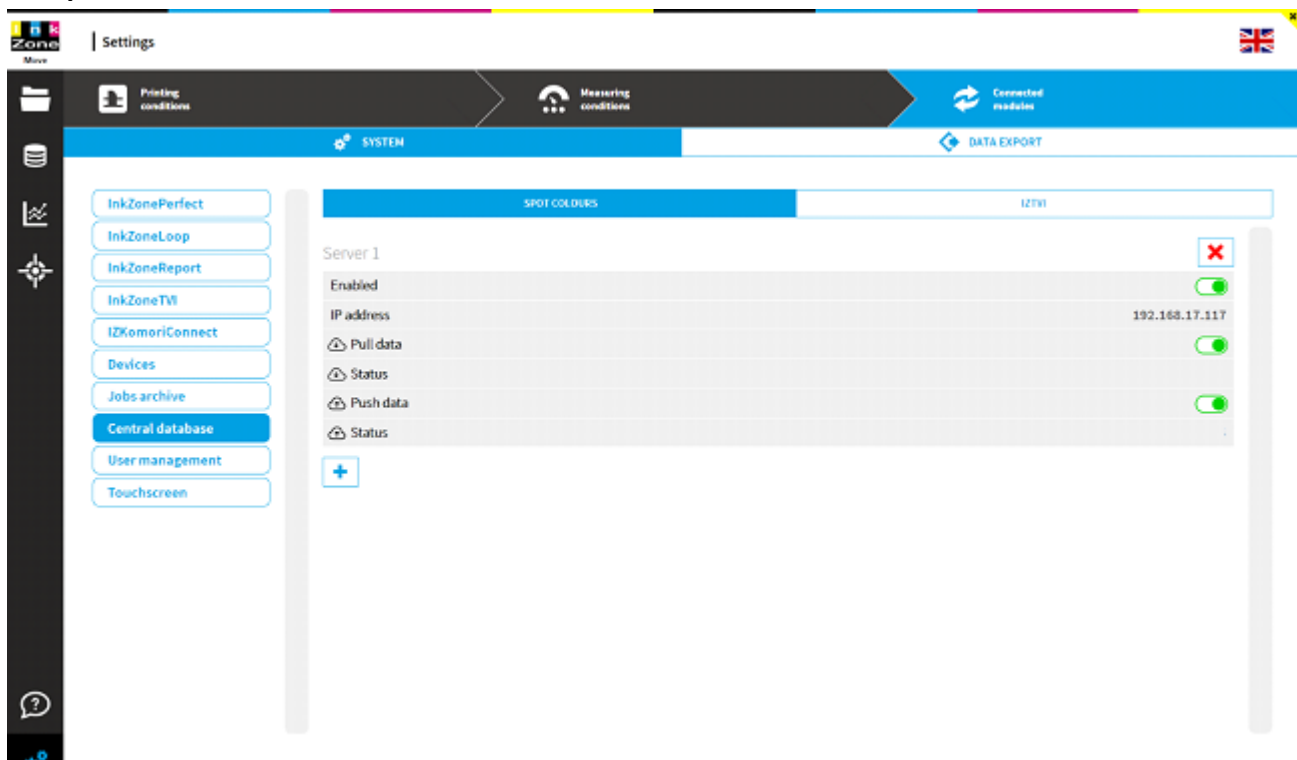
The screenshot shows the Apache CouchDB Futon web interface in a browser. The address bar displays the URL `192.168.17.74:5984/_utils/index.html`. The main content area is titled "Overview" and displays a table of databases. A sidebar on the right contains navigation links for Tools, Documentation, Diagnostics, and Recent Databases.

Name	Size	Number of Documents	Update Seq
<code>_replicator</code>	4.1 KB	1	1
<code>_users</code>	4.1 KB	1	1
<code>inkzone-central</code>	0.6 MB	227	2298
<code>inkzone-colors</code>	16.1 KB	28	121
<code>inkzone-jobs</code>	11.0 MB	50	9183
<code>inkzone-jobs-report</code>	79 bytes	0	0
<code>inkzone-logs</code>	3.8 MB	9467	9467
<code>inkzone-move</code>	3.2 MB	22	43
<code>inkzone-report</code>	3.0 MB	22	43
<code>inkzone-scoring</code>	25.6 MB	14483	23671

Showing 1-10 of 61 databases | Previous Page | Rows per page: 10 | Next Page

You should see the couchdb data from the server database.

### Setup InkZoneMove at the client PC



The screenshot shows the InkZoneMove application's "Settings" window. The "SYSTEM" tab is selected, and the "Central database" option is highlighted in the left sidebar. The "Server 1" configuration is shown with the following details:

- Enabled:** ☒
- IP address:** 192.168.17.117
- Pull data:** ☒
- Status:** ☒
- Push data:** ☒
- Status:** ☒

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.

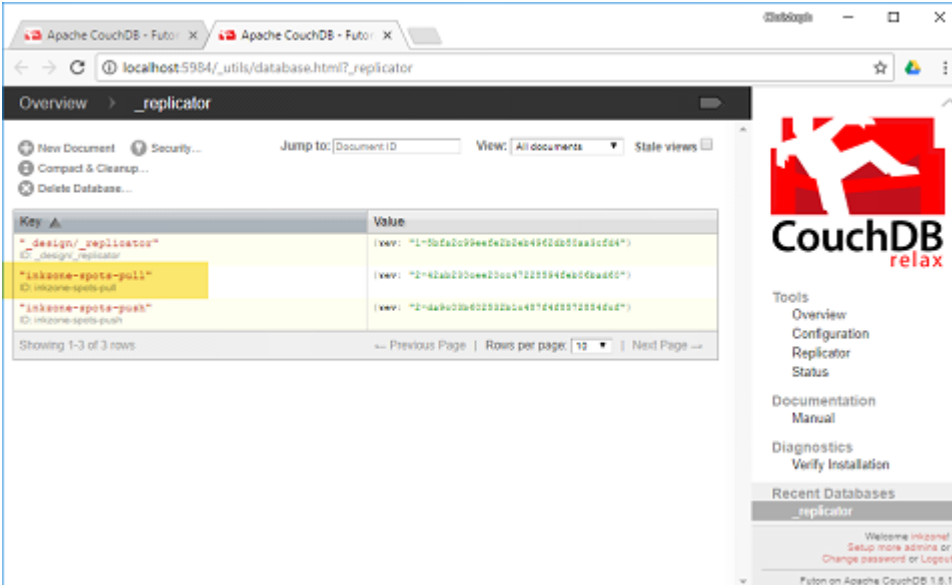
## Note

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

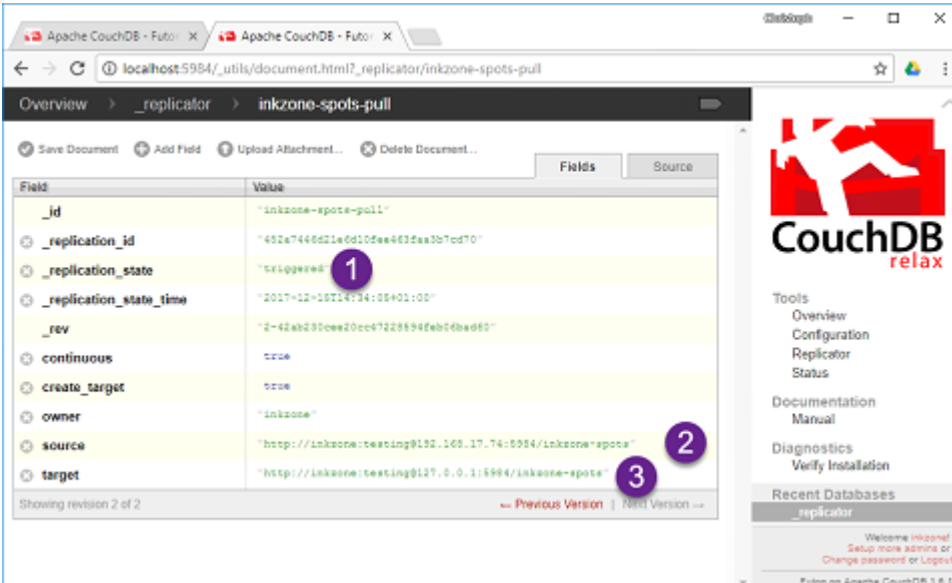
- On the client open the link [http://localhost:5984/\\_utils/database.html?\\_replicator](http://localhost:5984/_utils/database.html?_replicator) to see the replication status page:

b)



Click on “inkzone-spots-pull”

c)



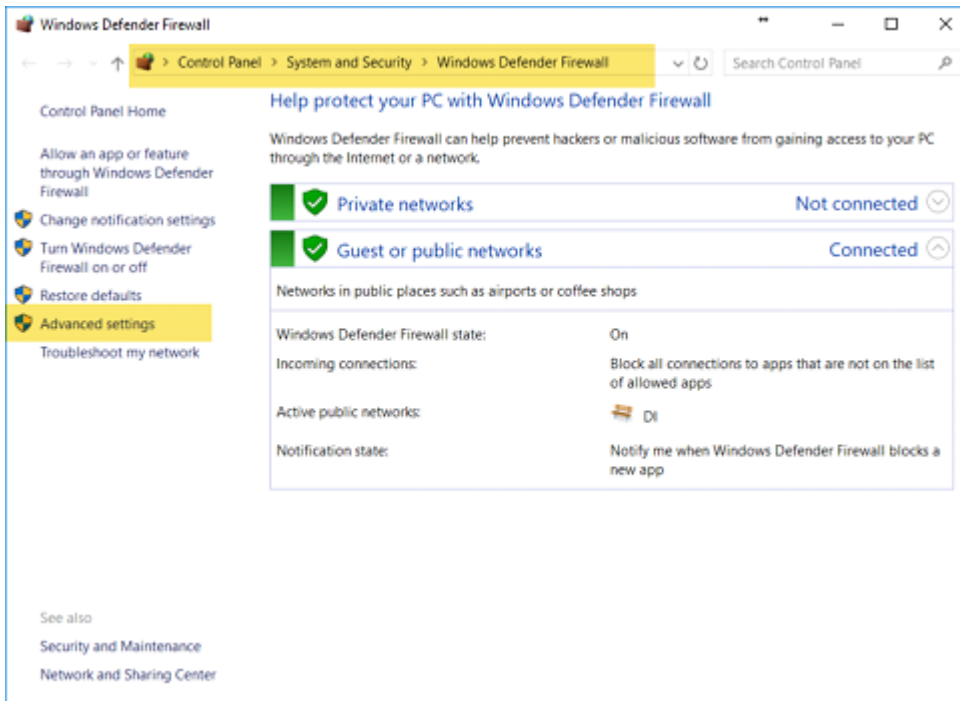
- Should say “triggered”
- Source address points to the IZM database server
- Target is the local PC

### 1.2.7.1.2. Firewall Setup

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

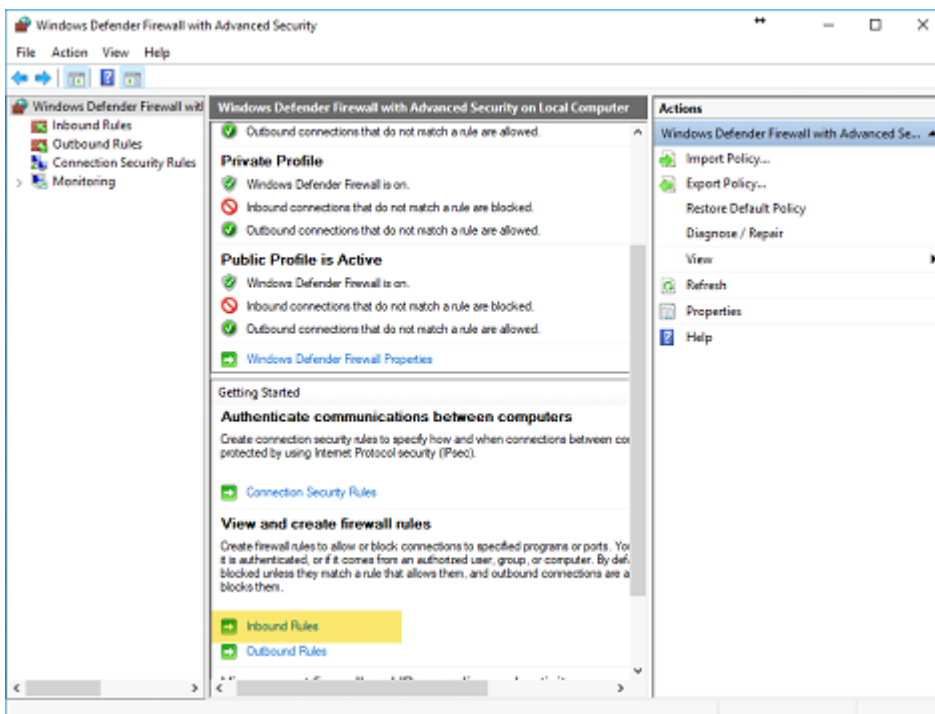
Configuration:

a)



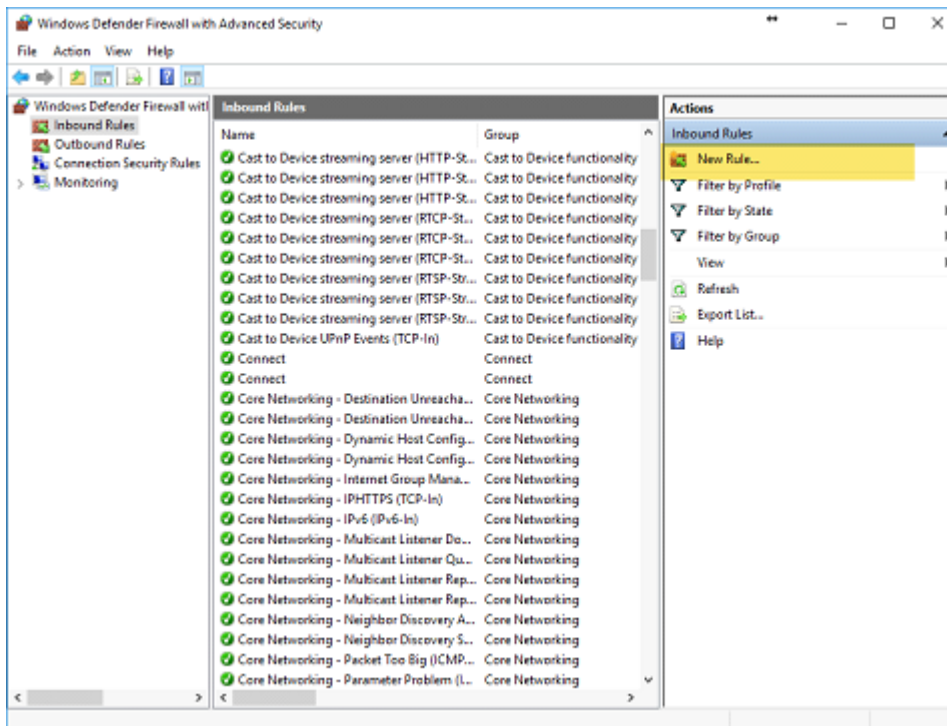
Open Firewall setting

b)



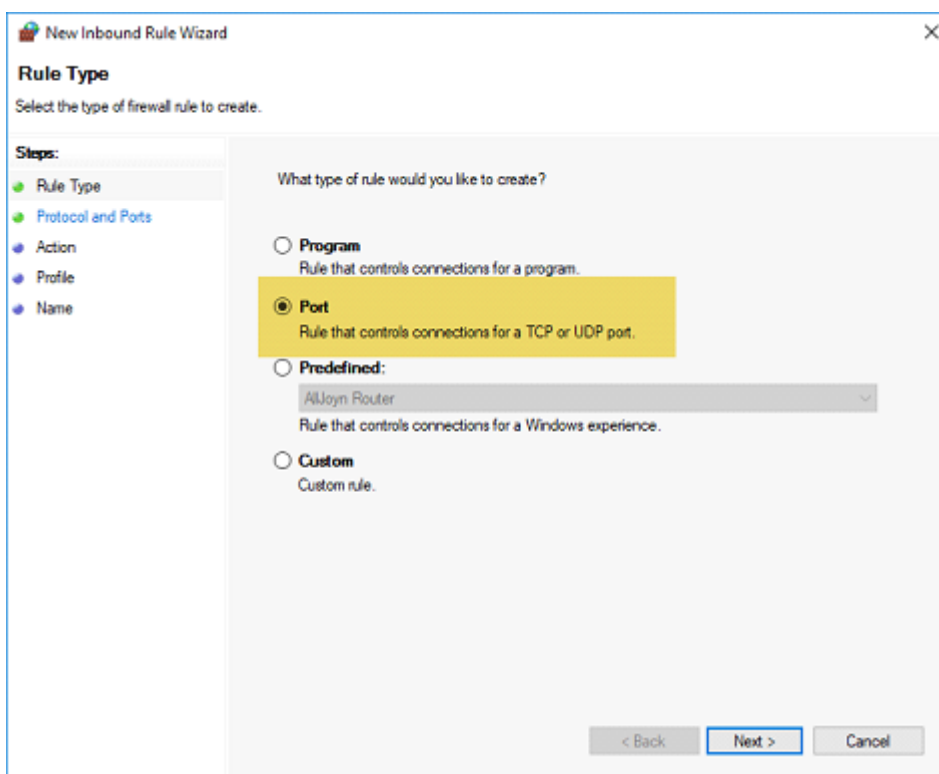
Create a new "Inbound Rule"

c)



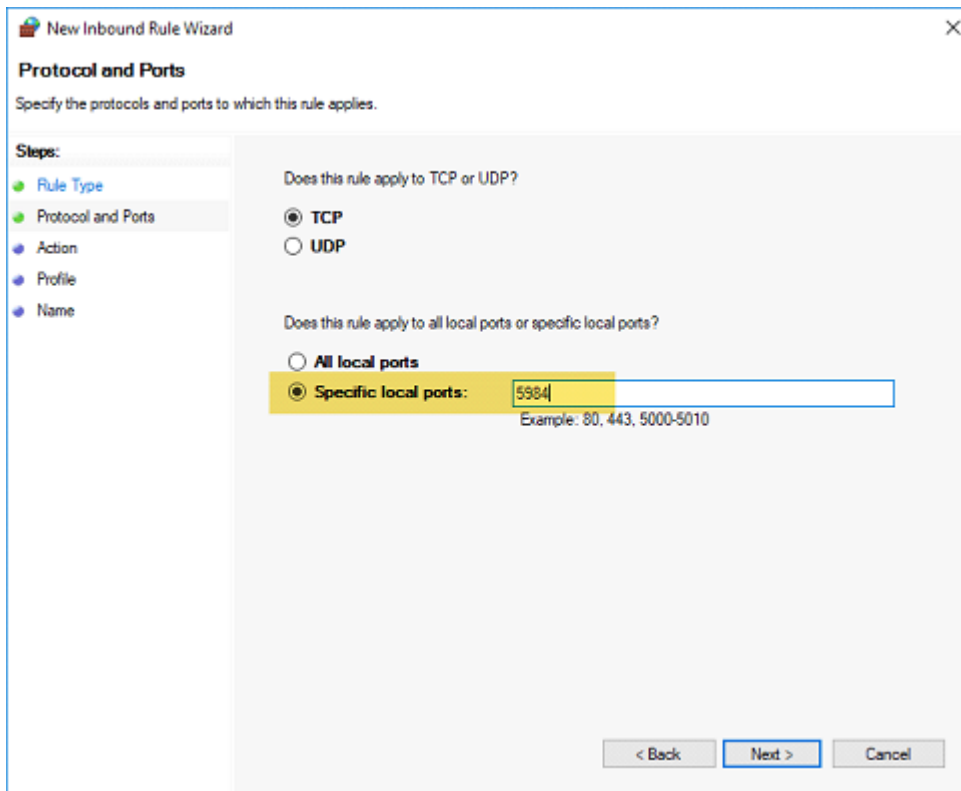
Select "New Rule"

d)



Select Port

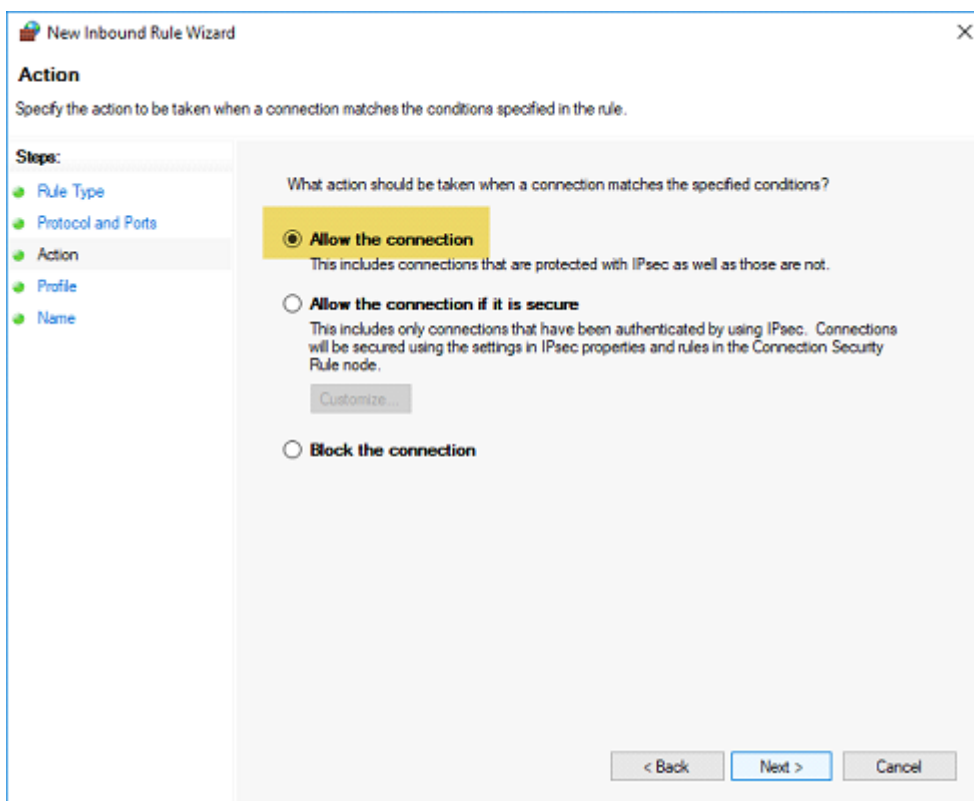
e)



The screenshot shows the 'New Inbound Rule Wizard' window, specifically the 'Protocol and Ports' step. The left sidebar lists the steps: Rule Type, Protocol and Ports (selected), Action, Profile, and Name. The main area contains two questions. The first question is 'Does this rule apply to TCP or UDP?' with radio buttons for TCP (selected) and UDP. The second question is 'Does this rule apply to all local ports or specific local ports?' with radio buttons for 'All local ports' and 'Specific local ports' (selected). Below the 'Specific local ports' option is a text box containing '5984' and an example text 'Example: 80, 443, 5000-5010'. At the bottom right are buttons for '< Back', 'Next >', and 'Cancel'.

Port address is 5984

f)



The screenshot shows the 'New Inbound Rule Wizard' window, specifically the 'Action' step. The left sidebar lists the steps: Rule Type, Protocol and Ports, Action (selected), Profile, and Name. The main area contains the question 'What action should be taken when a connection matches the specified conditions?' with three radio button options: 'Allow the connection' (selected), 'Allow the connection if it is secure', and 'Block the connection'. Below the 'Allow the connection' option is a description: 'This includes connections that are protected with IPsec as well as those are not.' Below the 'Allow the connection if it is secure' option is a description: 'This includes only connections that have been authenticated by using IPsec. Connections will be secured using the settings in IPsec properties and rules in the Connection Security Rule node.' and a 'Customize...' button. At the bottom right are buttons for '< Back', 'Next >', and 'Cancel'.

Allow for all connections

g)

The screenshot shows the 'New Inbound Rule Wizard' window at the 'Profile' step. The title bar says 'New Inbound Rule Wizard'. The main heading is 'Profile' with the instruction 'Specify the profiles for which this rule applies.' On the left, a 'Steps:' list shows 'Rule Type', 'Protocol and Ports', 'Action', 'Profile' (selected), and 'Name'. The main area is titled 'When does this rule apply?' and contains three checked options: 'Domain' (Applies when a computer is connected to its corporate domain.), 'Private' (Applies when a computer is connected to a private network location, such as a home or work place.), and 'Public' (Applies when a computer is connected to a public network location.). At the bottom right are buttons for '< Back', 'Next >', and 'Cancel'.

Enable all networks

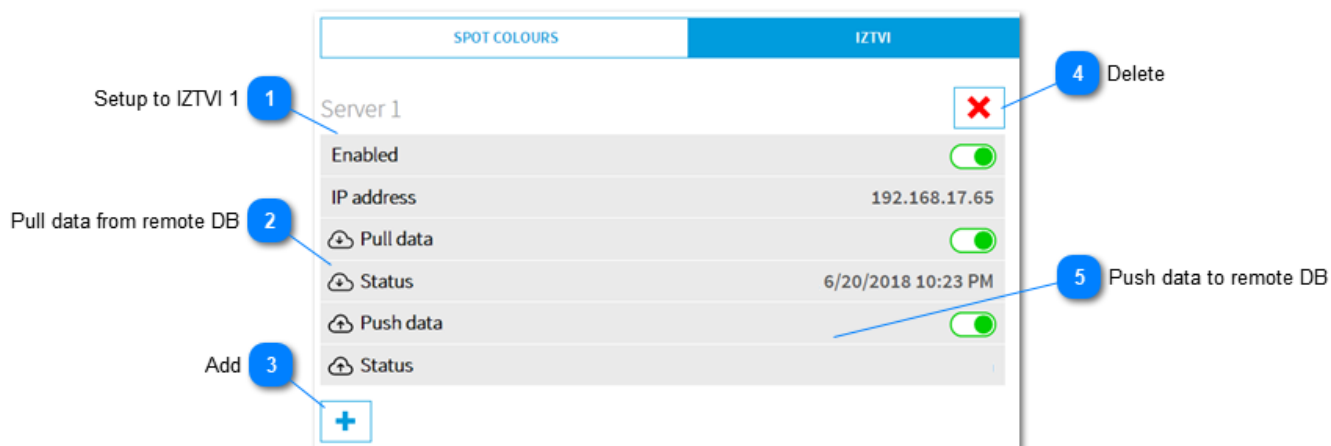
h)

The screenshot shows the 'New Inbound Rule Wizard' window at the 'Name' step. The title bar says 'New Inbound Rule Wizard'. The main heading is 'Name' with the instruction 'Specify the name and description of this rule.' On the left, a 'Steps:' list shows 'Rule Type', 'Protocol and Ports', 'Action', 'Profile', and 'Name' (selected). The main area has a 'Name:' label followed by a text box containing 'CouchDB SYNC'. Below it is a 'Description (optional):' label followed by a larger text box. At the bottom right are buttons for '< Back', 'Finish', and 'Cancel'.

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

Enabled	<input checked="" type="checkbox"/>
IP address	192.168.17.65
<input checked="" type="checkbox"/> Pull data	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> Status	6/20/2018 10:23 PM
<input checked="" type="checkbox"/> Push data	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> Status	

Configuration and status of connection to server 1.

#### 2 Pull data from remote DB

<input checked="" type="checkbox"/> Pull data	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> Status	6/20/2018 10:23 PM

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.

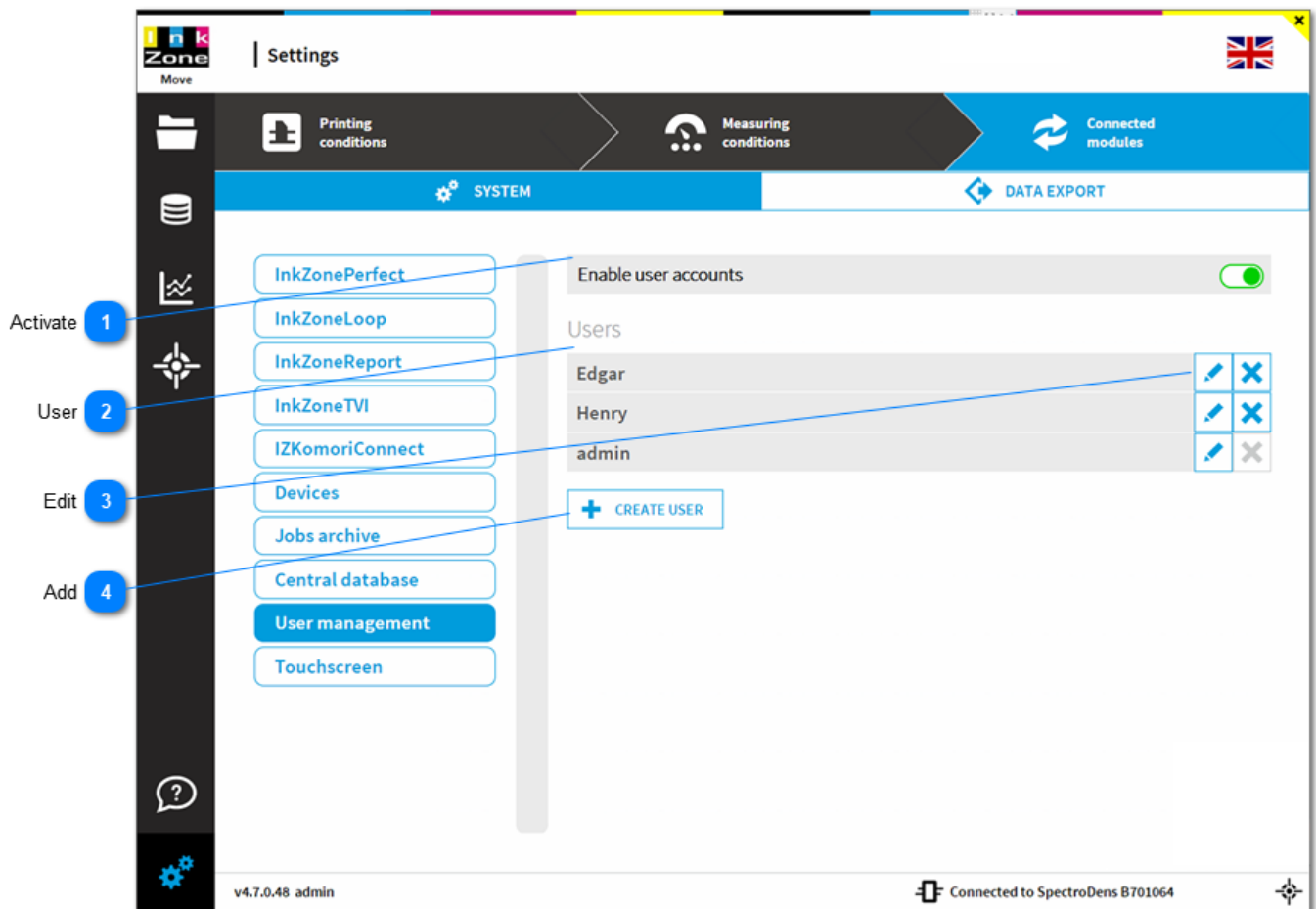
#### 5 Push data to remote DB

<input checked="" type="checkbox"/> Push data	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> Status	

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

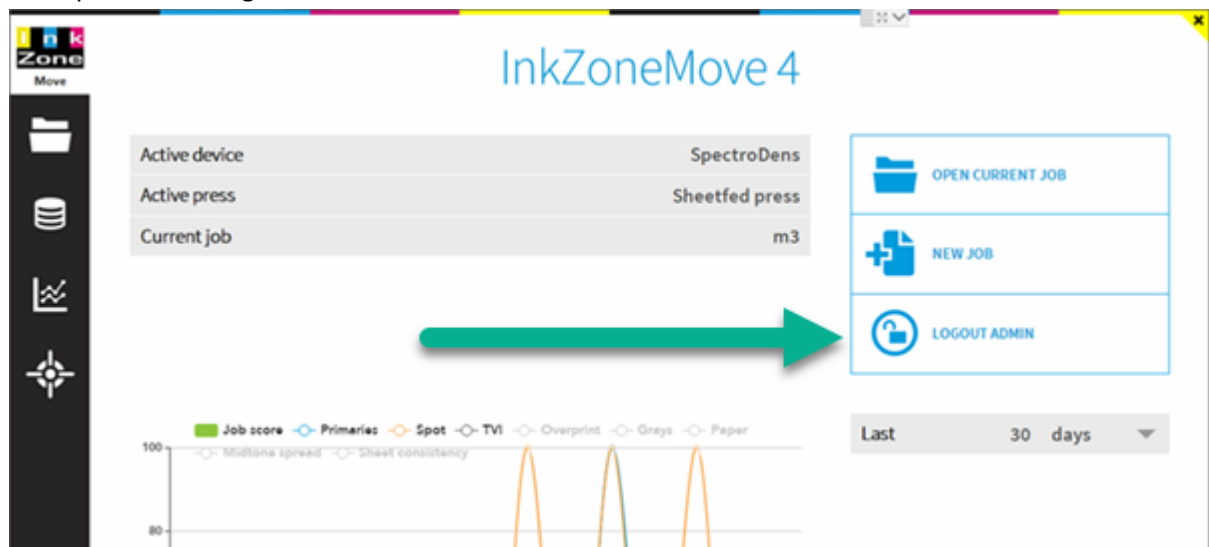
**Activate**

Enable user accounts



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

### Users

Edgar		
Henry		
admin		

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

## 3 Edit



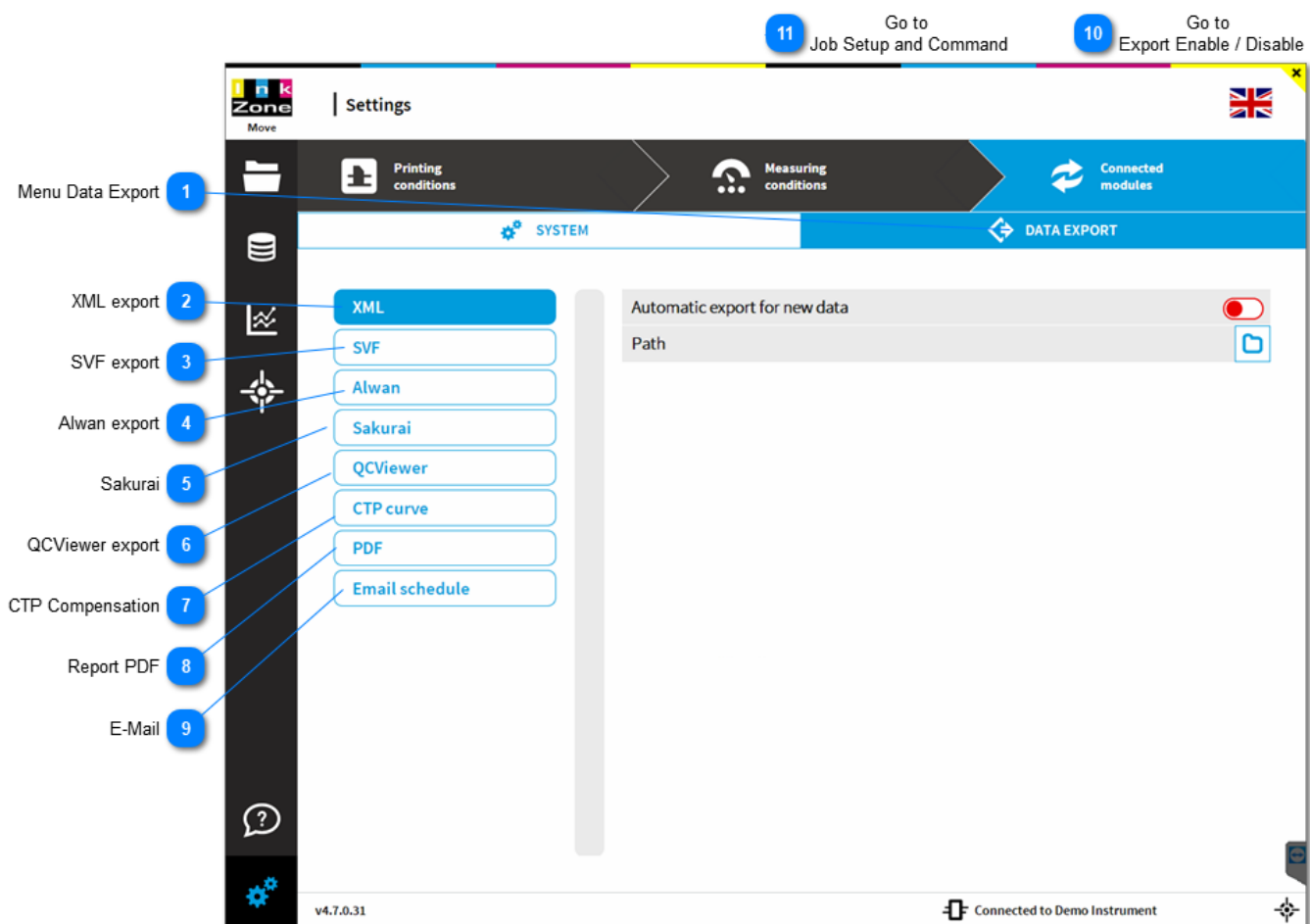
Create a new password or delete the user.

## 4 Add



Add a new user

## 1.2.8. Data Export Setup



11 Go to Job Setup and Command

10 Go to Export Enable / Disable

Menu Data Export 1

XML export 2

SVF export 3

Alwan export 4

Sakurai 5

QCViewer export 6

CTP Compensation 7

Report PDF 8

E-Mail 9

SYSTEM DATA EXPORT

Automatic export for new data

Path

v4.7.0.31 Connected to Demo Instrument

1

**Menu Data Export**

DATA EXPORT

Sub menu Data Export

2

**XML export**

XML

See here: [1.2.8.2. XML Export](#)

3

**SVF export**

SVF

See here: [1.2.8.3. SVF Export](#)

4

**Alwan export**

Alwan

See here: [1.2.8.4. Alwan Export](#)

5

**Sakurai**

Sakurai

See here: [1.2.8.5. Sakurai](#)

6

**QCViewer export**

QCViewer

See here: [1.2.8.5. QCViewer Export](#)

7

**CTP Compensation**

CTP curve

See here: [1.2.8.6. CTP Compensation Export](#)

8

**Report PDF**

PDF

Setup a PDF report template, see here: [1.2.8.8. PDF Report Template](#)

9

**E-Mail**

Email schedule

Schedule an e-mail when a job is considered as finish.

See here: [1.2.8.9. E-Mail Schedule](#)

10

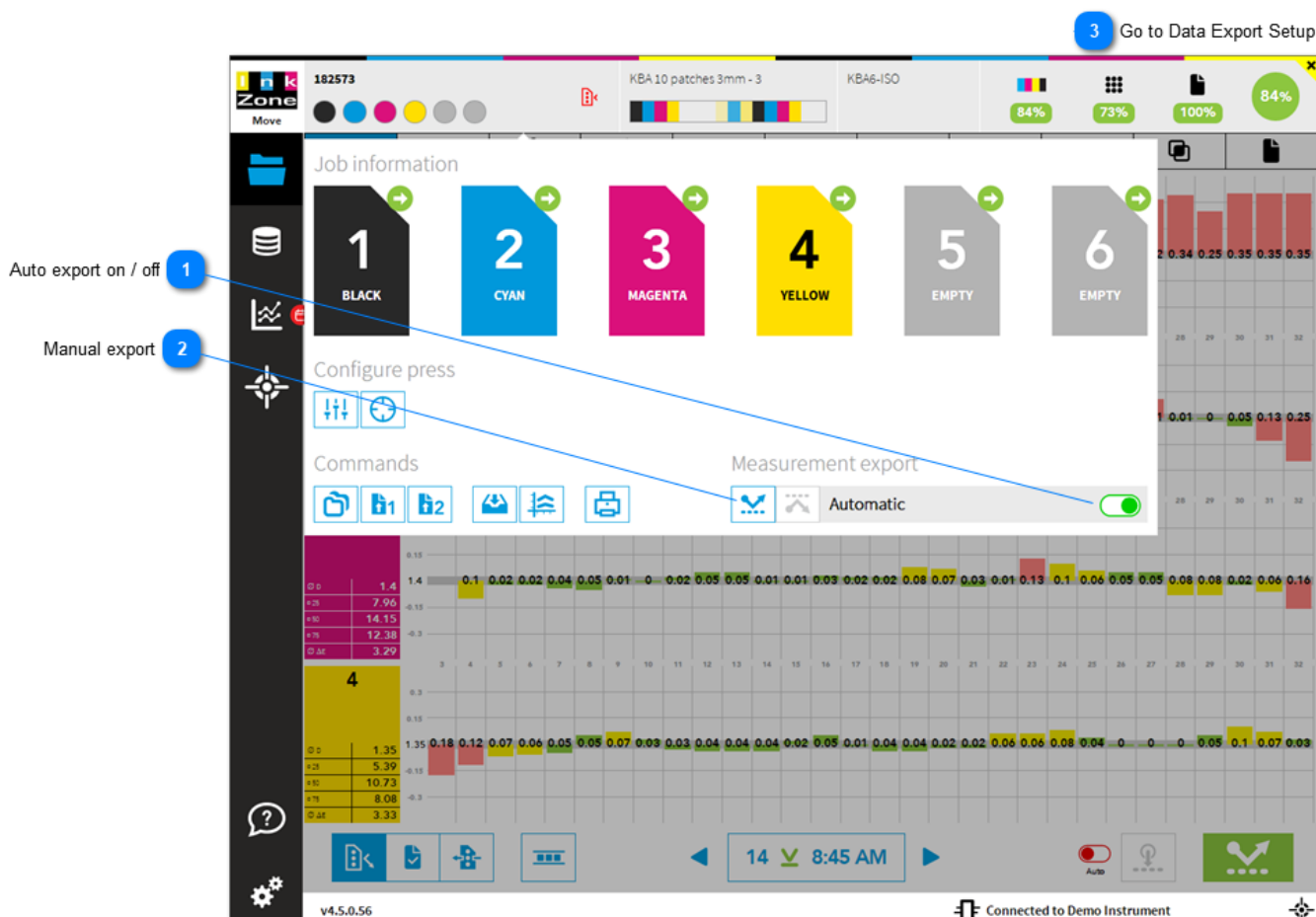
**Go to  
Export Enable / Disable**

[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

Automatic



By default the automatic export is active and every measurement is automatically exported. When it is disabled then 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](#)

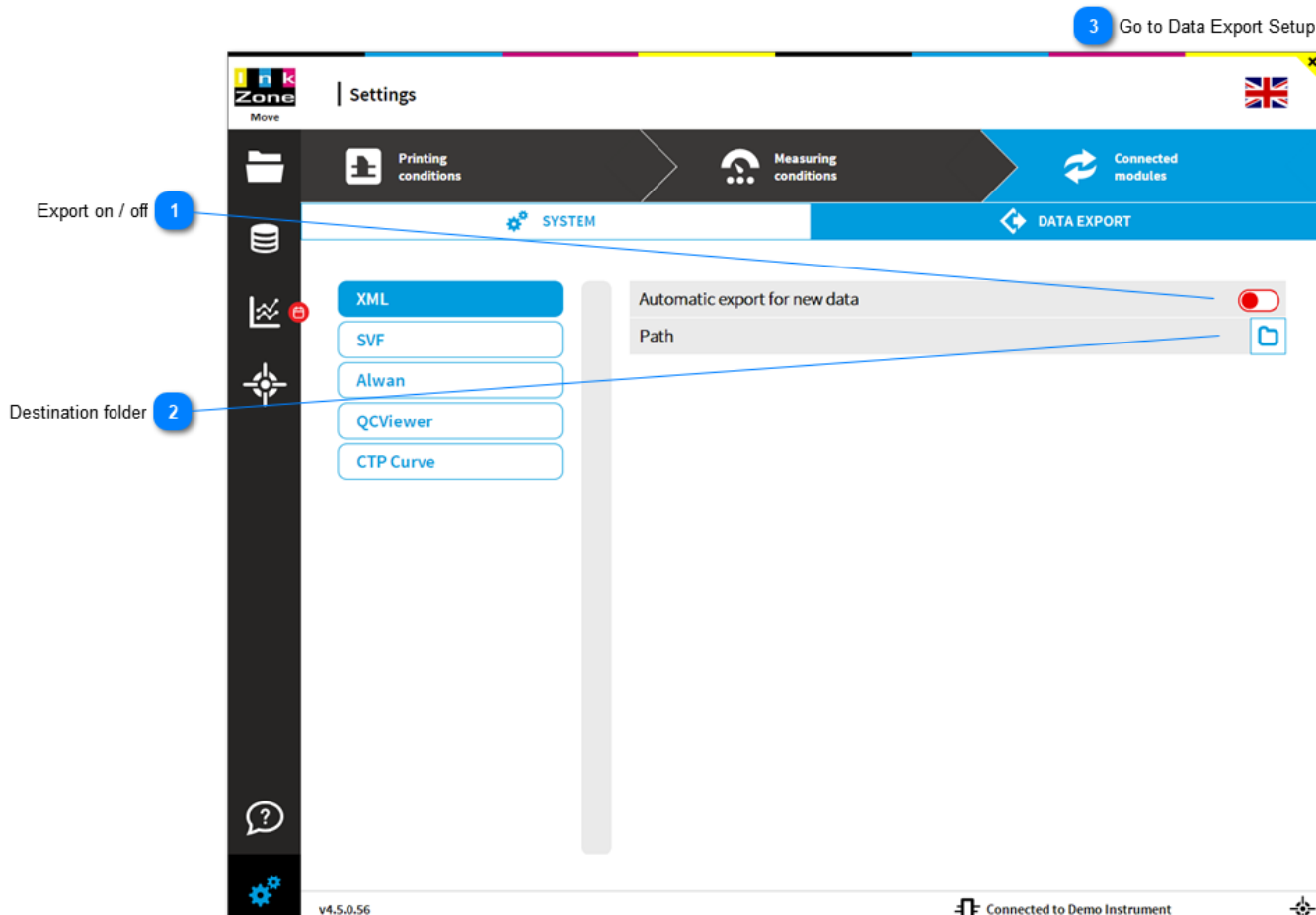
3

## 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

Automatic export for new data



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

2

#### Destination folder

Path



Select the destination folder

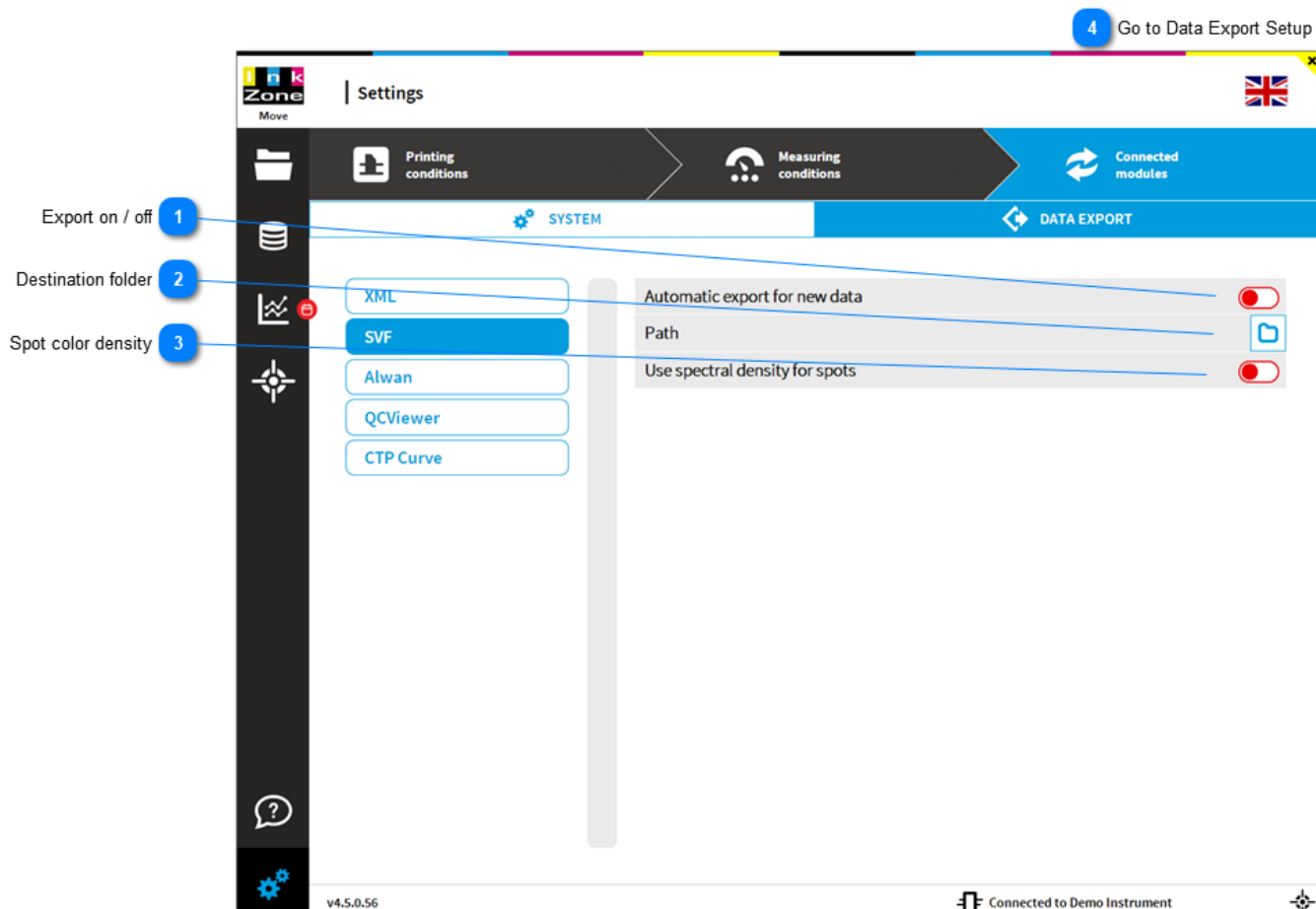
3

#### 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

Automatic export for new data



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

2

#### Destination folder

Path



Select the destination folder

3

#### Spot color density

Use spectral density for spots



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

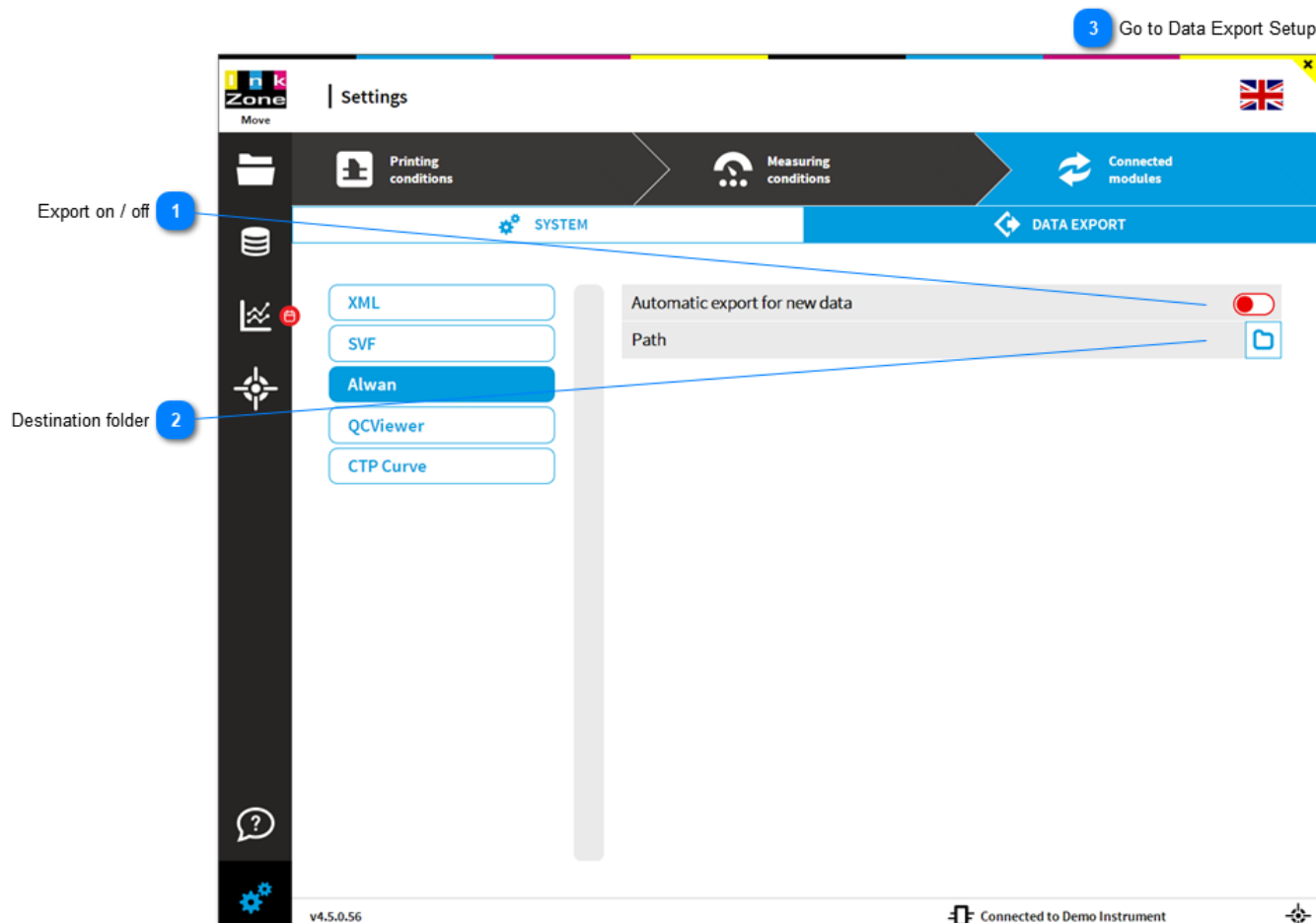
4

#### 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

Automatic export for new data



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

2

#### Destination folder

Path



Select the destination folder

3

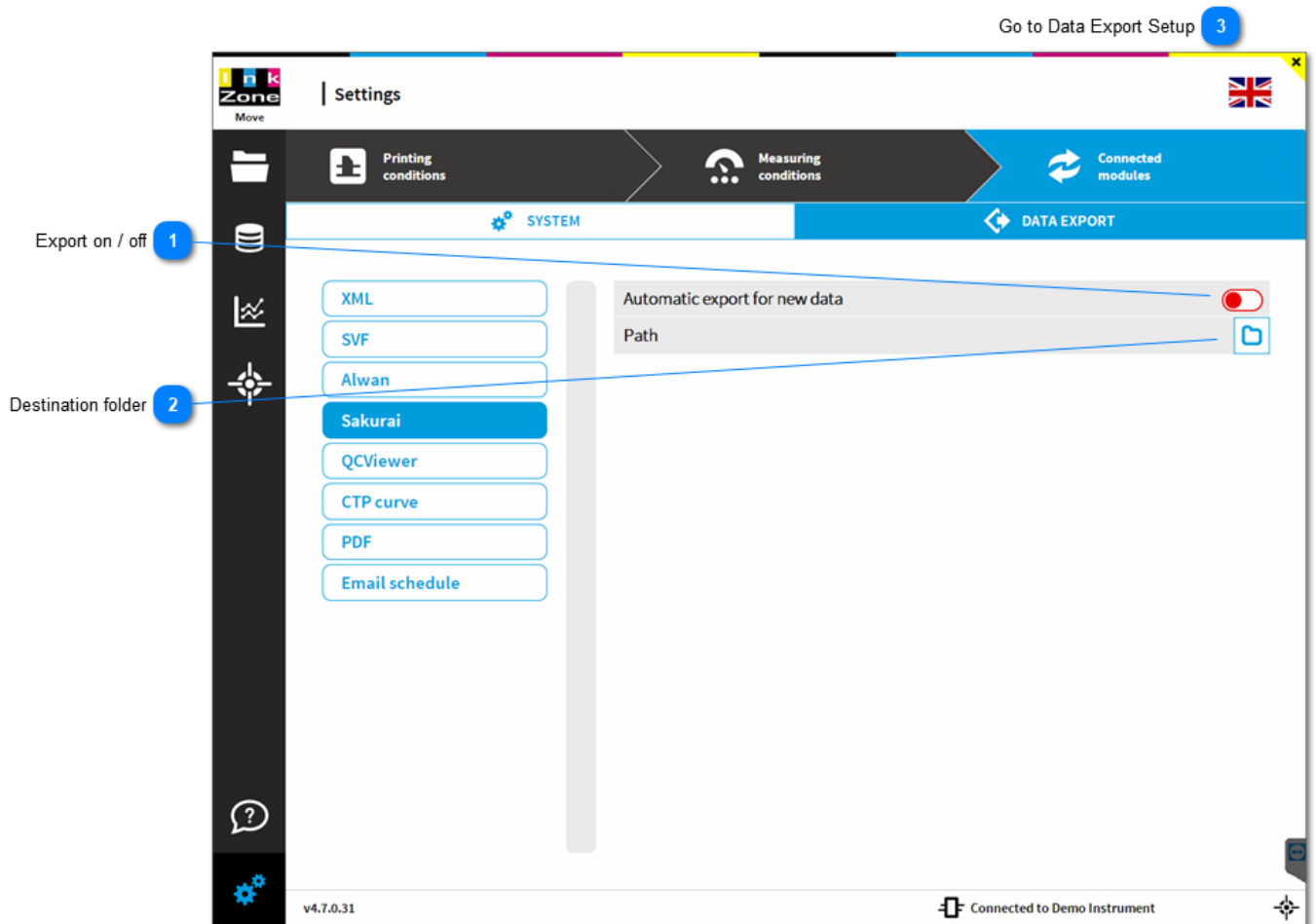
#### Go to Data Export Setup

[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

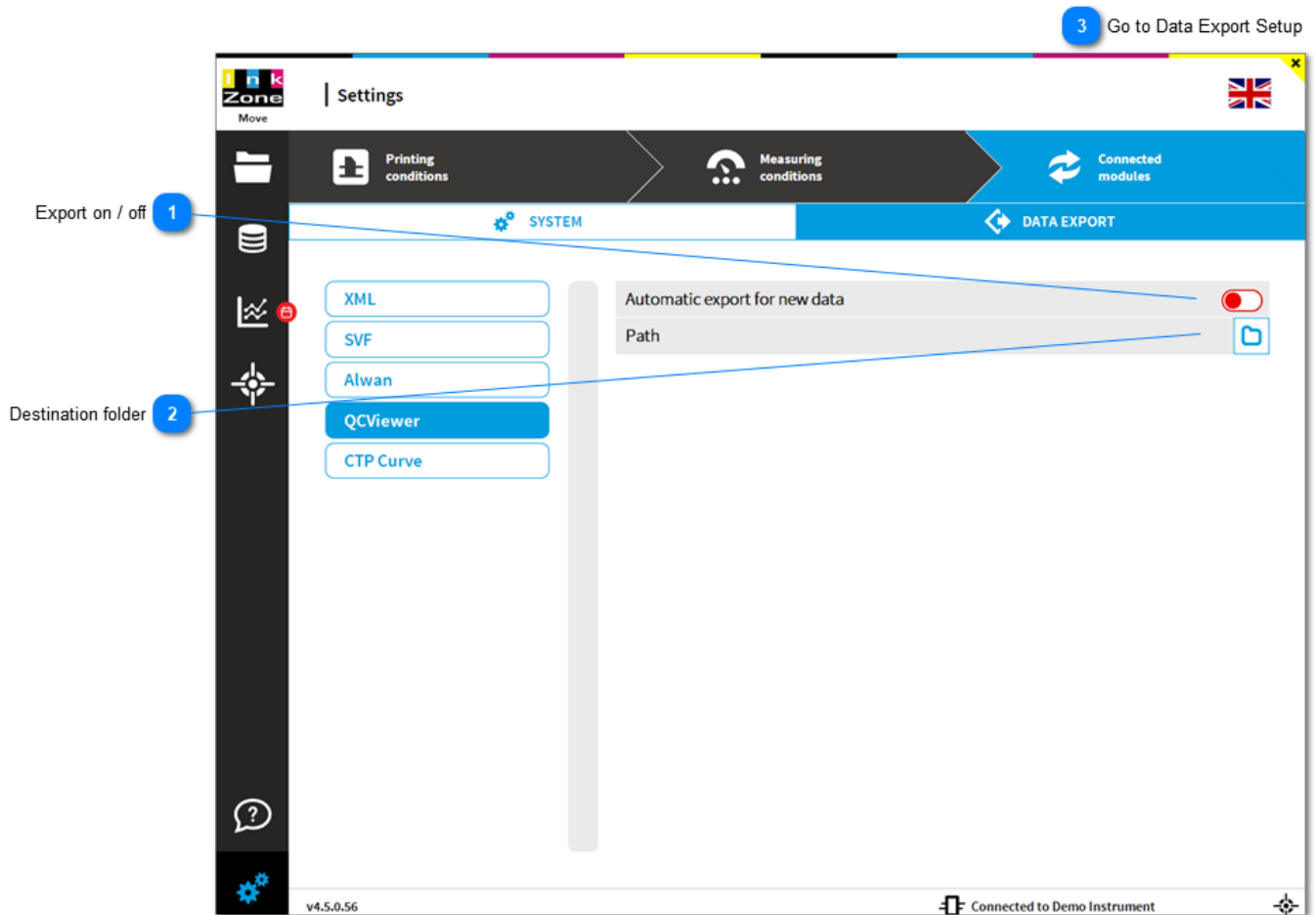
3

#### 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

Automatic export for new data



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

2

#### Destination folder

Path



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.

**Settings** | SYSTEM | DATA EXPORT

**Export setups** (1)

- XML
- SVF
- Alwan
- QCViewer
- CTP Curve**

**Expand rule** (2)

**Delete rule** (3)

**Run rule once** (4)

**Export result** (5)

**Add rule** (6)

**Go to Rule Setup** (7)

**Go to Data Export Setup** (8)

**Export schedule**

Press: Heidelberg CD100 Targetset: Carton\_v2018

Press: Heidelberg CD100 Targetset: PSO\_Coated\_v2

Enabled ☒

Run every: 7 days

Skip MakeReady measurements ☒

$\Delta E$  tolerance: 6 Density tolerance  $\pm$ : 0.5

Measurements required for valid export: 5

**RUN NOW**

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		

v4.5.0.91 Connected to Demo Instrument

1

#### Export setups

Export schedule

Press: Heidelberg CD100 Targetset: Carton\_v2018

Press: Heidelberg CD100 Targetset: PSO\_Coated\_v2

Enabled ☒

Run every: 7 days

Skip MakeReady measurements ☒

$\Delta E$  tolerance: 6 Density tolerance  $\pm$ : 0.5

Measurements required for valid export: 5

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.

Export schedule

Export rule collapsed 1

Press 2

Targetset 3

Schedule 4

Tolerances 5

Add 6

Job list 7

Run 8

Measurements 9

Activate filter set 10

Activate / Delete 11

Export rule expanded 12

Return to CTP Curve Compensation 13

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

#### 1 Export rule collapsed

Press Heidelberg CD1( Targetset Carton\_v2018

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

Press Heidelberg CD1

Select the press from the list box

#### 3 Targetset

Targetset PSO\_Coated\_v2

Select the targetset from the list box

#### 4 Schedule

Run every 7 days

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

5

## Tolerances

$\Delta E$ tolerance	6	-	+	Density tolerance $\pm$	0.5	-	+
----------------------	---	---	---	-------------------------	-----	---	---

Measurement data exceeding DeltaE or density are ignored during export

6

## Add



Create a new rule

7

## Job list

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

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

Measurements required for valid export	5	-	+
--	---	---	---

Number of measurements required to create an export

10

## Activate filter set

Skip MakeReady measurements	<input checked="" type="checkbox"/>
-----------------------------	-------------------------------------

All data is ignored which do not match the setup rules

11

## Activate / Delete

Enabled	<input checked="" type="checkbox"/>	<input type="button" value="X"/>
---------	-------------------------------------	----------------------------------

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

12 Export rule expanded

Press	Heidelberg CD10	Targetset	PSO_Coated_v2	
Enabled				<input checked="" type="checkbox"/>
Run every	7	<input type="button" value="-"/>	<input type="button" value="+"/>	days
Skip MakeReady measurements				<input checked="" type="checkbox"/>
$\Delta E$ tolerance	6	<input type="button" value="-"/>	<input type="button" value="+"/>	Density tolerance $\pm$ 0.5 <input type="button" value="-"/> <input type="button" value="+"/>
Measurements required for valid export				5 <input type="button" value="-"/> <input type="button" value="+"/>

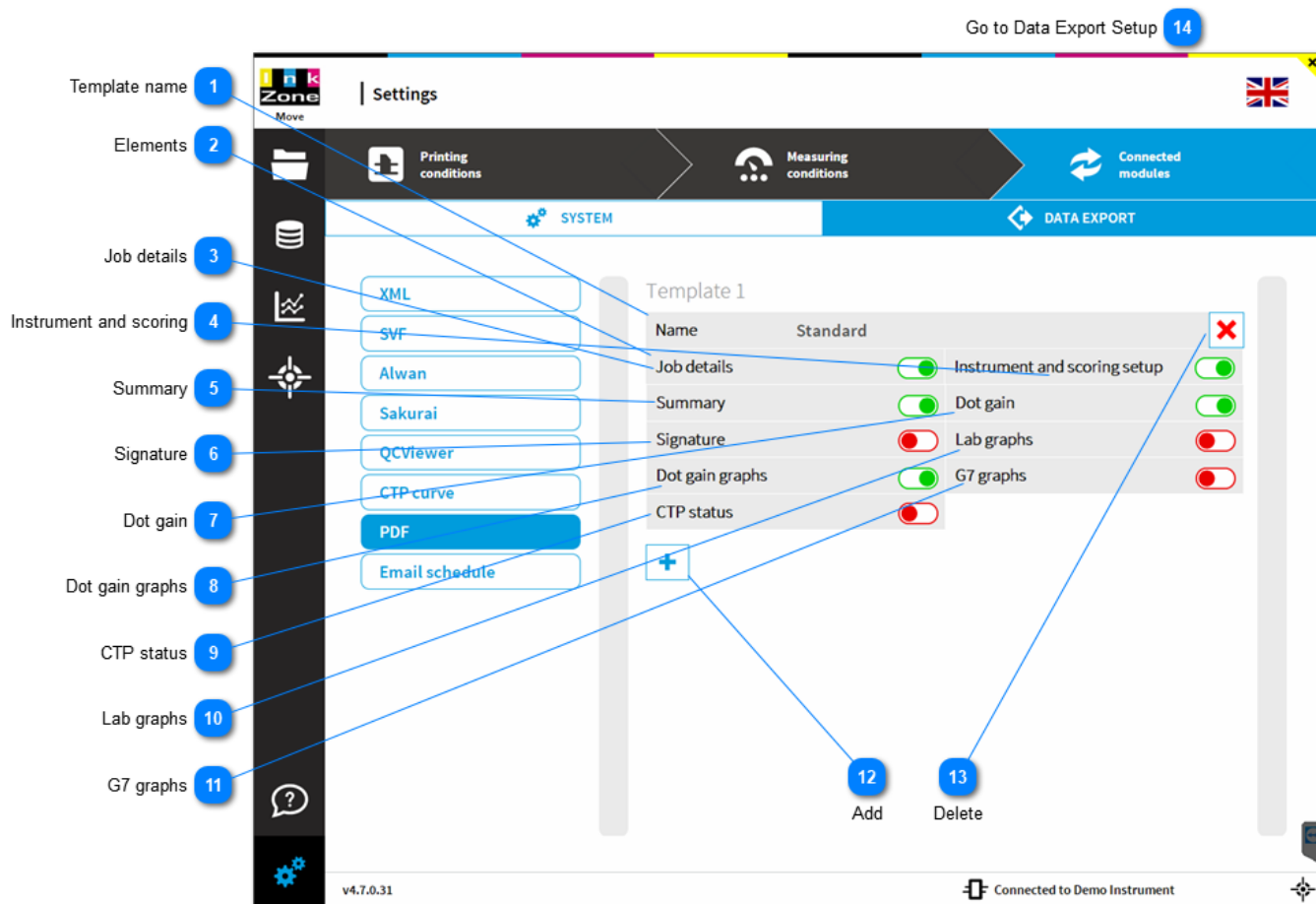
Export rule expanded view

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

Name	Standard
Job details	<input checked="" type="checkbox"/>
Summary	<input checked="" type="checkbox"/>
Signature	<input type="checkbox"/>
Dot gain graphs	<input checked="" type="checkbox"/>
CTP status	<input type="checkbox"/>
Instrument and scoring setup	<input checked="" type="checkbox"/>
Dot gain	<input checked="" type="checkbox"/>
Lab graphs	<input type="checkbox"/>
G7 graphs	<input type="checkbox"/>

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

2

#### Elements

Job details	<input checked="" type="checkbox"/>	Instrument and scoring setup	<input checked="" type="checkbox"/>
Summary	<input checked="" type="checkbox"/>	Dot gain	<input checked="" type="checkbox"/>
Signature	<input type="checkbox"/>	Lab graphs	<input type="checkbox"/>
Dot gain graphs	<input checked="" type="checkbox"/>	G7 graphs	<input type="checkbox"/>
CTP status	<input type="checkbox"/>		

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

3

#### Job details

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 measurements	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

	<b>1</b> Print / Target [L a b]			<b>2</b> D	<b>3</b> ΔE / Tol	<b>4</b> ΔE	<b>5</b>
Black	<b>16.0</b> / 16.0	<b>0.8</b> / 0.0	<b>1.9</b> / 0.0	1.80	5.4 / 5	77%	100%
Cyan	<b>54.4</b> / 54.0	<b>-35.9</b> / -36.0	<b>-50.4</b> / -49.0	1.50	1.7 / 5	100%	100%
Magenta	<b>49.0</b> / 46.0	<b>74.8</b> / 72.0	<b>-4.5</b> / -5.0	1.39	4.5 / 5	100%	50%
Yellow	<b>87.9</b> / 87.0	<b>-5.8</b> / -6.0	<b>88.7</b> / 90.0	1.31	2.8 / 5	100%	100%
Red (M+Y)	<b>48.5</b> / 46.0	<b>68.5</b> / 67.0	<b>45.8</b> / 47.0	1.53	3.9 / 10	100%	<b>6</b>
Green (C+Y)	<b>49.0</b> / 49.0	<b>-68.7</b> / -66.0	<b>21.7</b> / 24.0	1.46	3.8 / 10	100%	
Blue (C+M)	<b>25.3</b> / 24.0	<b>16.8</b> / 16.0	<b>-46.8</b> / -45.0	1.45	2.7 / 10	100%	
Paper	<b>93.4</b> / 93.0	<b>1.1</b> / 0.0	<b>-2.7</b> / -3.0	0.00	1.3 / 3	100%	

6

**Signature**

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**

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**

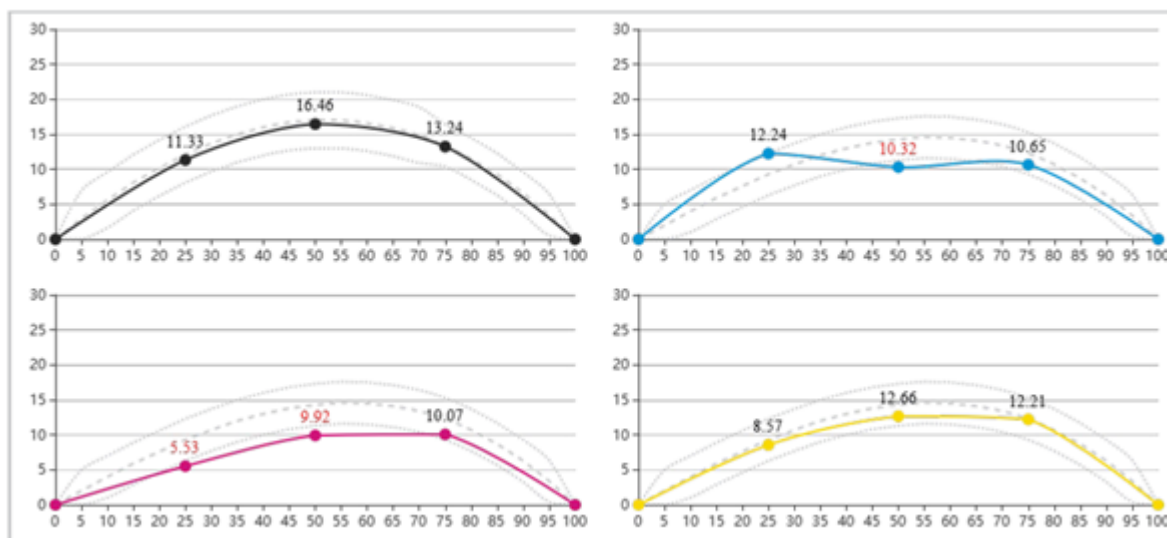
Dot gain graphs

Template item **Dot gain graphs**

Adds dot gain graphs to the PDF report.

Sample:

Dot gain curve view



9

**CTP status**

CTP status

Template item **CTP status**

Adds information about data exported by InkZoneTVI to the PDF report.

10

**Lab graphs**

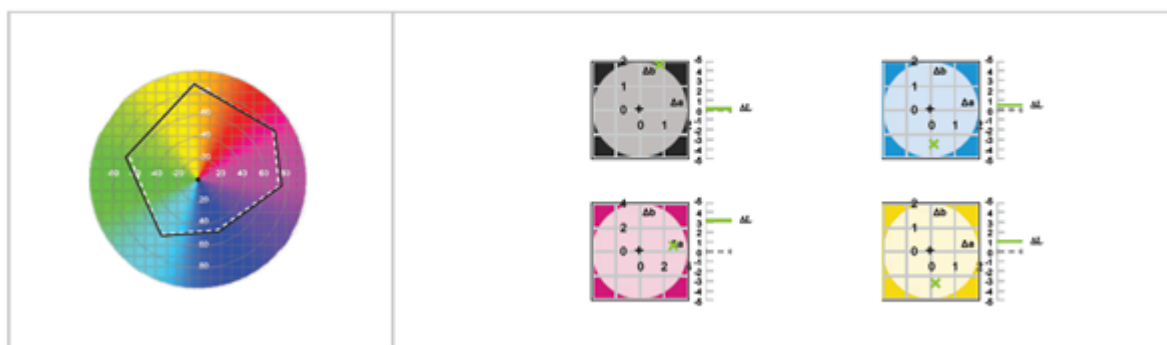
Lab graphs

Template item **Lab graphs**

Adds a color gamut circle to the PDF report.

Sample:

Lab view



11

**G7 graphs**

G7 graphs



Adds a G7 graphs to the PDF report.

12

**Add**



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



Delete



Delete the PDF template.

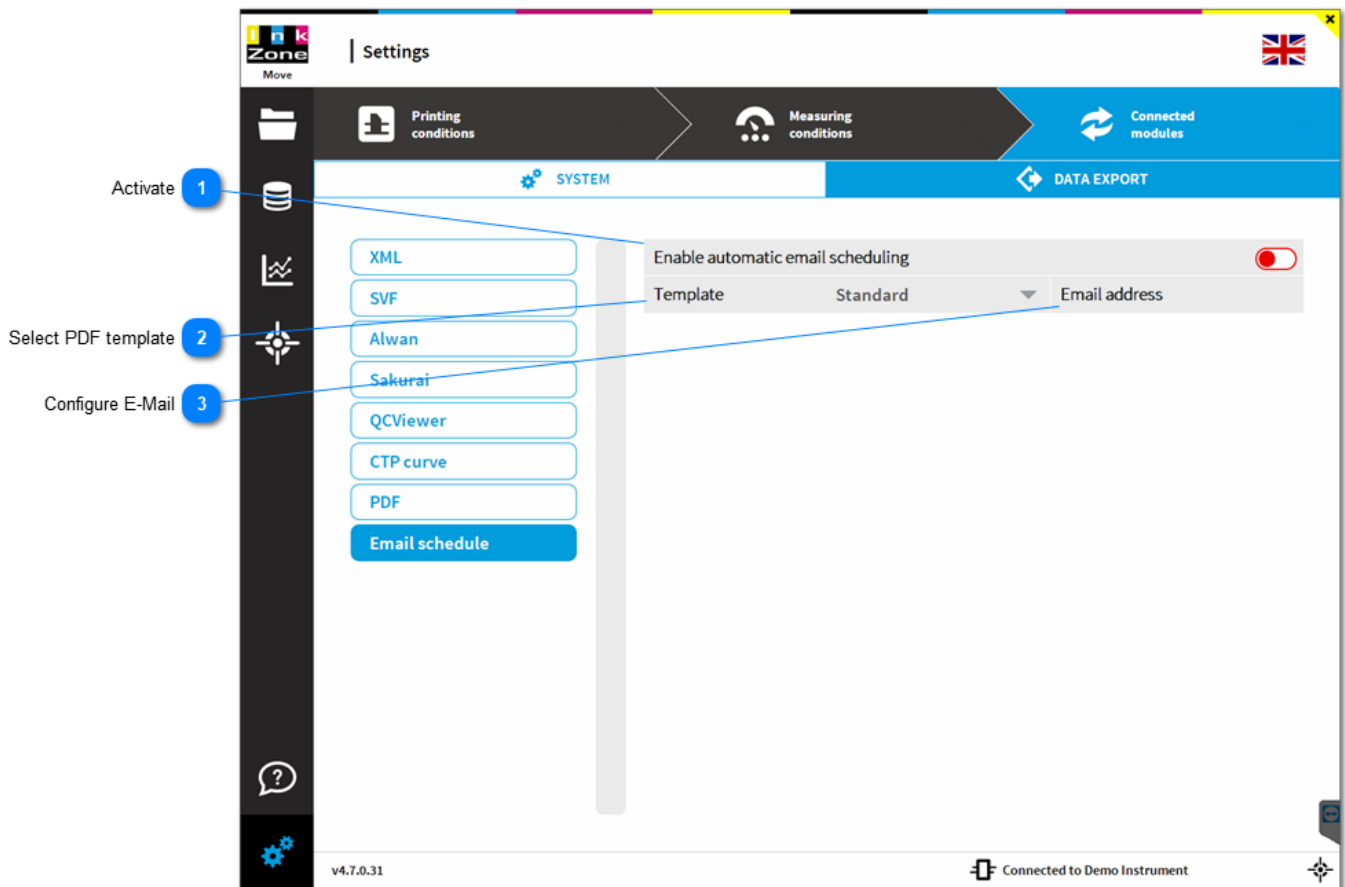


Go to Data Export Setup

[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

Enable automatic email scheduling



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

Template

Standard



Select a defined template for the PDF creation, see here: [1.2.8.8. PDF Report Template](#)

3

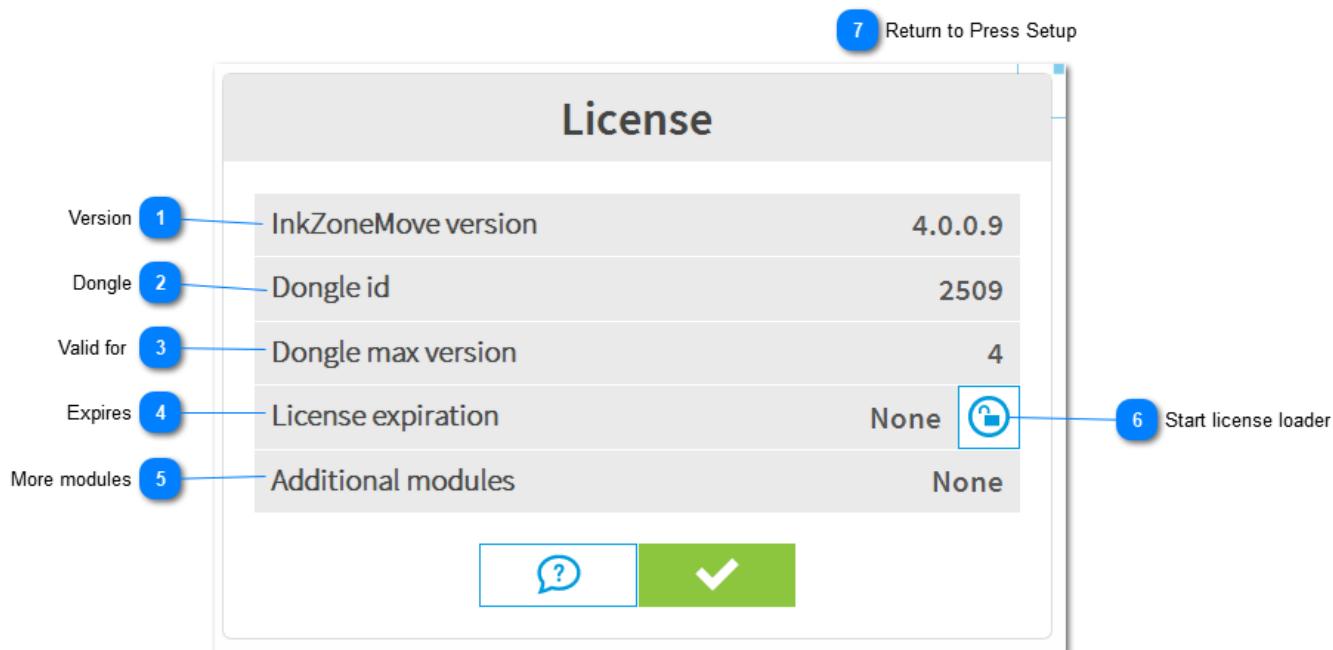
#### Configure E-Mail

Email address

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](#)



**Return to Press Setup**

[1.2.1. Press Setup](#)

### 1.2.10. License Loader



1

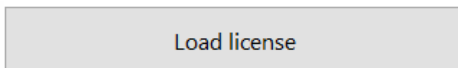
#### Refresh dongle information



Refresh the shown dongle information

2

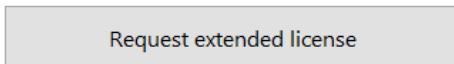
#### Load License



Load a license file to change the dongle status

3

#### License request



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

4

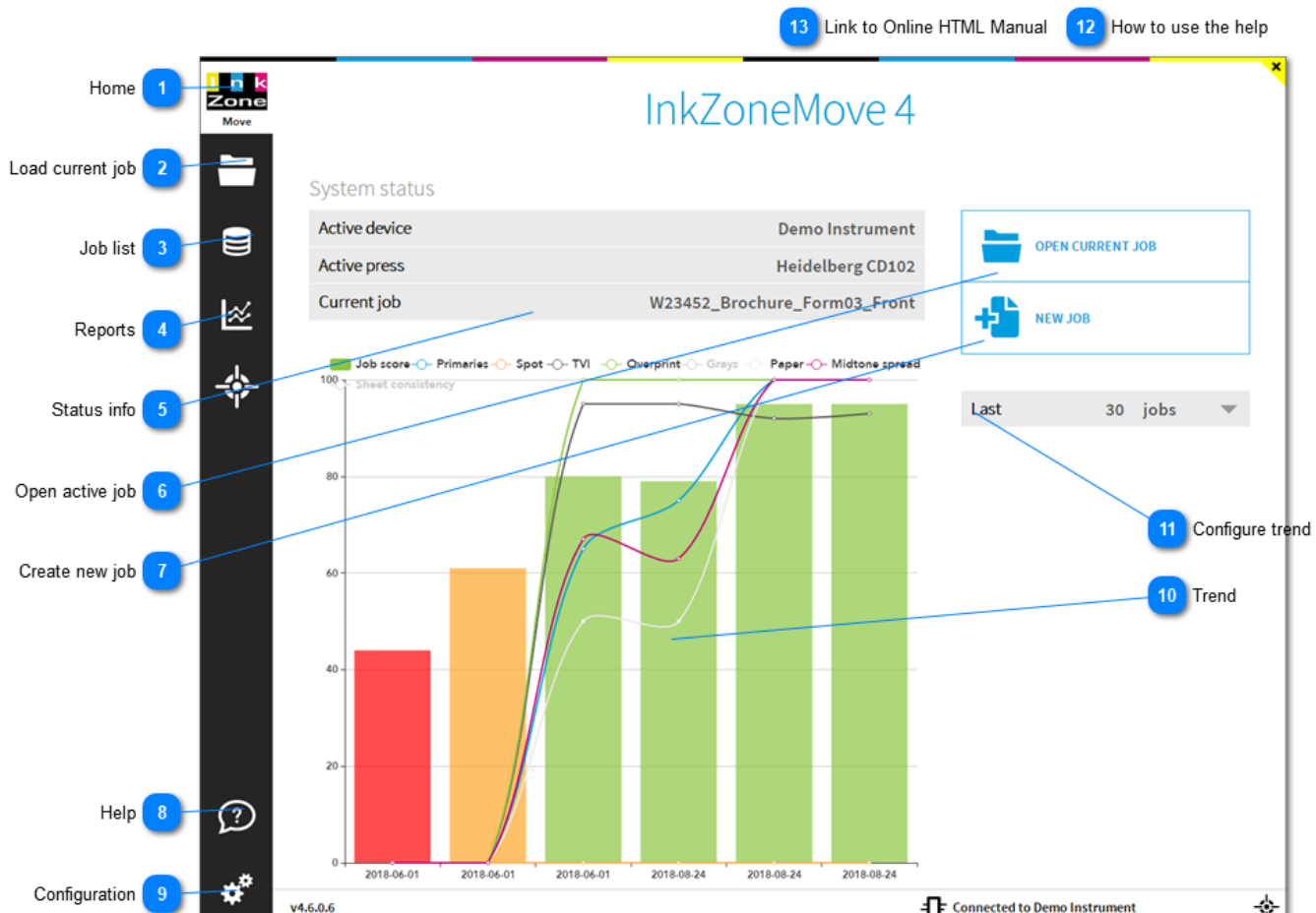
#### Return to License Information

[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

System status

Active device	Demo Instrument
Active press	Heidelberg CD102
Current job	W23452_Brochure_Form03_Front

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



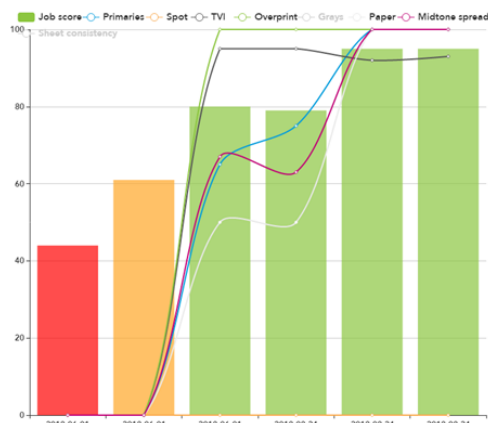
Context sensitive help button. Brings up a help page from the currently active IZM4 page

## 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

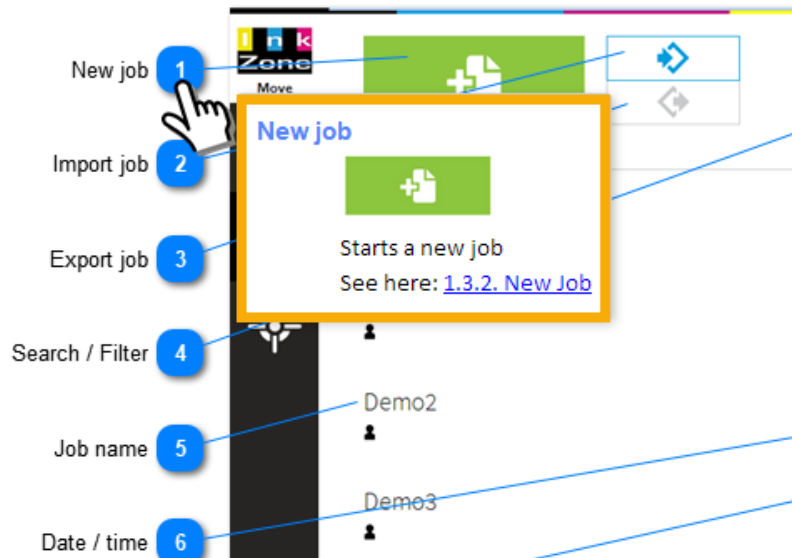


Change trend display from **number of jobs** to **last x days**, modify the number.

12

### How to use the help

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

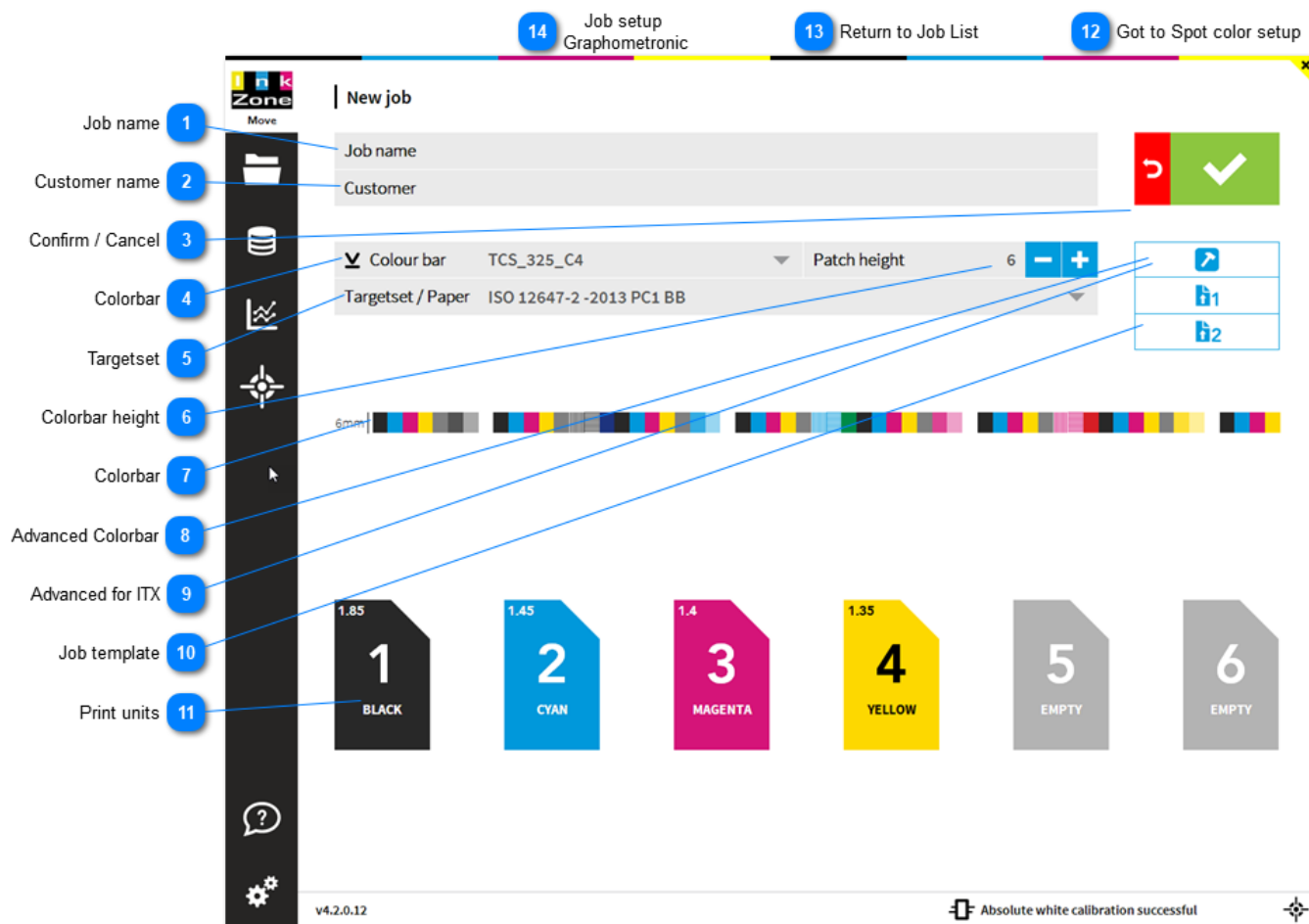


13

### 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](#)

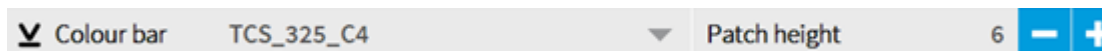
3

**Confirm / Cancel**

Confirm or cancel job setup

4

**Colorbar**

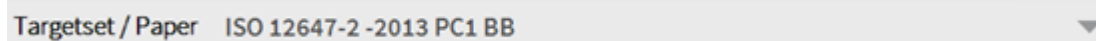


Colorbar for the front side print.

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

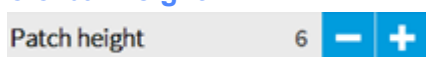


Print targetset.

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

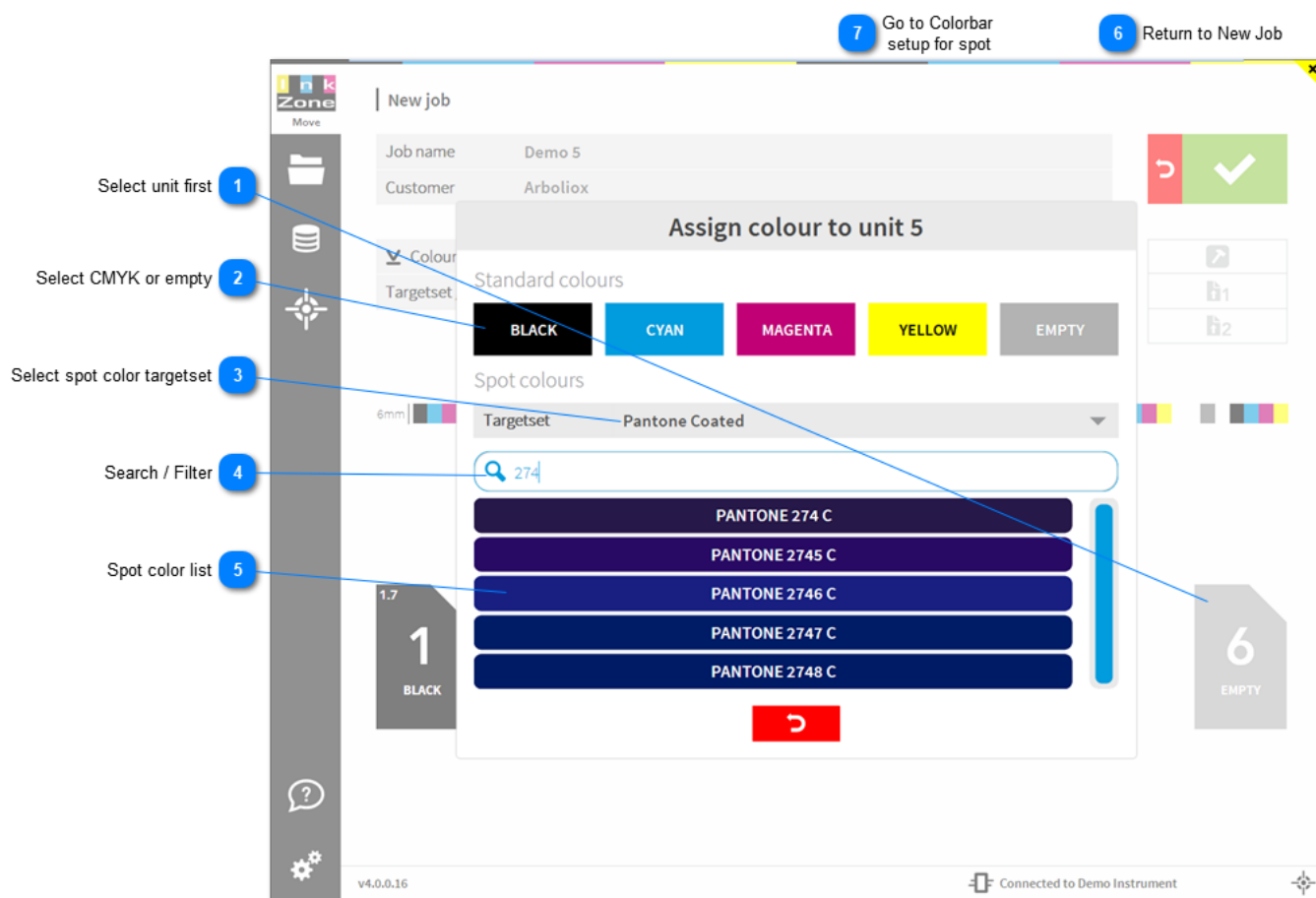
[Return to Job List](#)[1.3.3. Job List](#)

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

Standard colours



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

## 3 Select spot color targetset

Spot colours



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**

PANTONE 274 C
PANTONE 2745 C
PANTONE 2746 C
PANTONE 2747 C
PANTONE 2748 C

Select the color from the filtered spot color list

6

**Return to New Job**

[1.3.2. New Job](#)

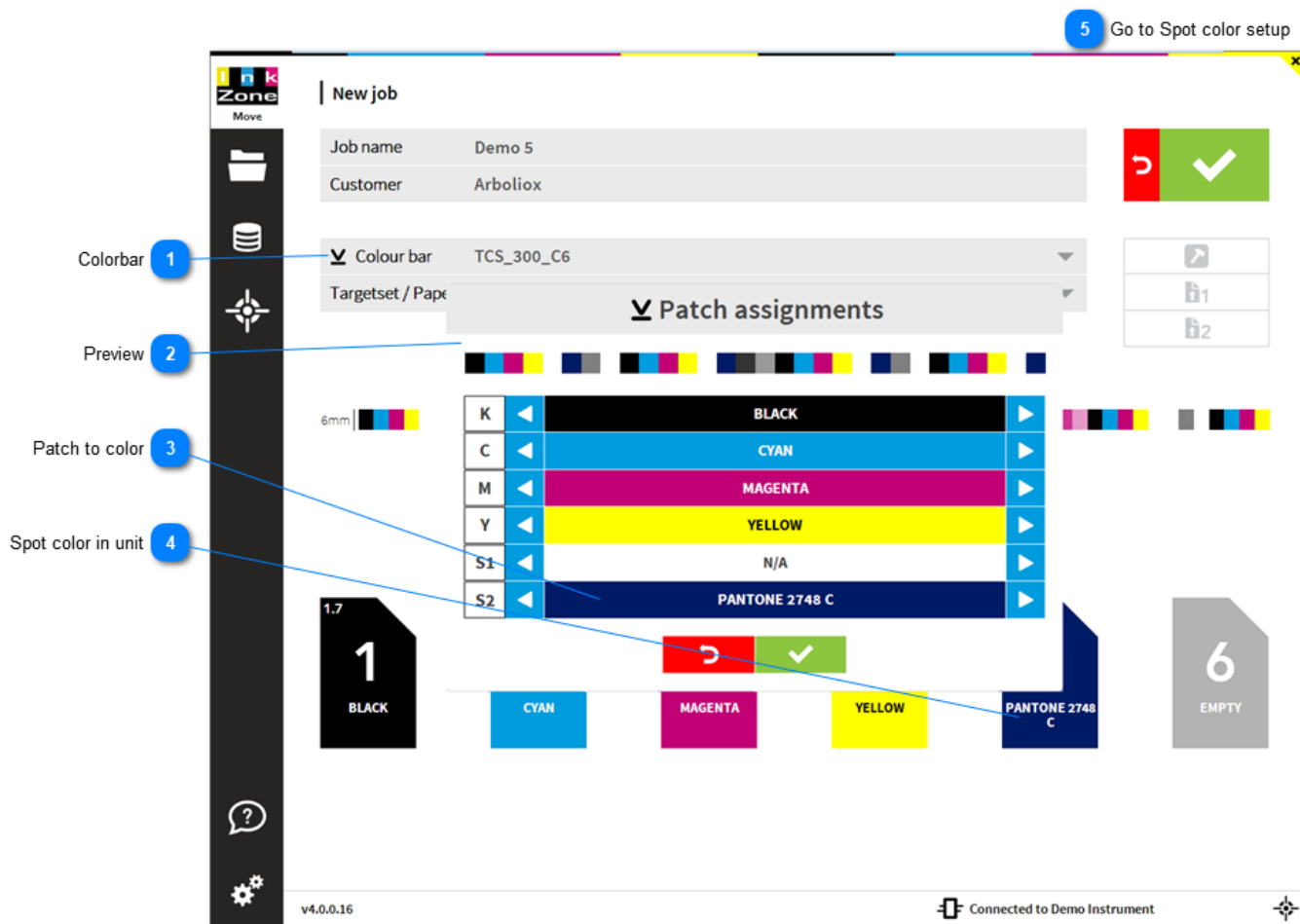
7

**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

Colour bar TCS\_300\_C6

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

2

## Preview

Patch assignments



Preview the patch to color assignment.

3

## Patch to color

K	BLACK
C	CYAN
M	MAGENTA
Y	YELLOW
S1	N/A
S2	PANTONE 2748 C

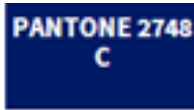


Assign to each patch a printing color.

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

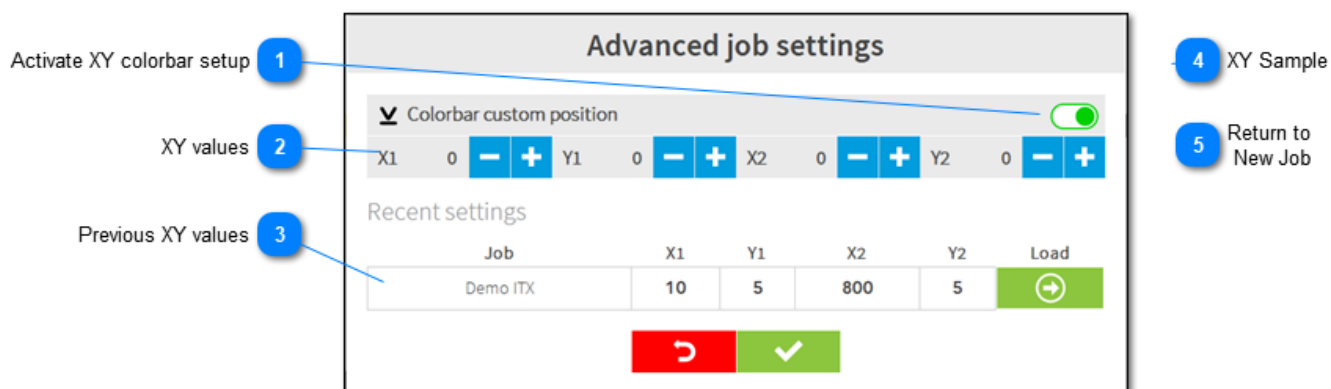
5

**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. Graphometric Job Setup

The screenshot shows the 'New job' setup window in the InkZoneMove software. The interface is divided into a sidebar on the left and a main content area. The sidebar contains three numbered icons: 1 (Position Y), 2 (Position X), and 3 (Web width). The main content area includes a 'Job name' field with the value 'Magazin Flyer Form1', a 'Customer' field, and two 'Colour bar' dropdown menus, both set to '4c\_Goss\_4x2-30\_v1603\_3'. Below these are 'Colour bar position' (0), 'Web position' (0), and 'Web width' (900) fields. A 'Targetset / Paper' dropdown is set to 'ISO 12647-2 -2013 PC1 BB'. At the bottom, there are four color calibration targets labeled 1 (BLACK), 2 (CYAN), 3 (MAGENTA), and 4 (YELLOW). A 'Go to New Job' button is located in the top right corner. The status bar at the bottom indicates 'v4.5.0.3' and 'Connected to GraphoMetronic'.

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

The screenshot shows the InkZoneMove Job List interface. On the left is a dark sidebar with icons for New job, Import job, Export job, Search / Filter, and a help/question mark icon. The main area displays a table of jobs. Callouts 1 through 11 point to specific UI elements: 1 (New job icon), 2 (Import job icon), 3 (Export job icon), 4 (Search / Filter icon), 5 (Job name column), 6 (Date / time column), 7 (Score column), 8 (Select job icon), 9 (Open job icon), 10 (Go to Delete job button), and 11 (Go to Export job button).

Job name	Date	Scoring	Select job	Open job
3c	11/30/16 2:10 PM	41%	X	Folder icon
Demo 2	11/30/16 10:20 AM	55%	X	Folder icon
Demo2	11/30/16 3:15 PM	80%	X	Folder icon
Demo3	11/30/16 3:20 PM	67%	X	Folder icon
test2	10/4/16 7:47 AM	0%	X	Folder icon
test21	11/25/16 1:09 PM	38%	X	Folder icon

At the bottom of the interface, it shows 'v4.0.0.16' and 'Connected to Demo Instrument'.

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**Demo2  
■11/30/16  
3:15 PM

80%



Job name with date and job score

6

**Date / time**11/30/16  
3:15 PM

Printing time and date

7

**Score**

80%

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

Export 2

Select 1

3

 Return to Job List

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

3 Return to Job List

Search job

Job name	Date	Progress	Action
3c	11/30/16 2:10 PM	41%	×
Demo 2	11/30/16 10:20 AM	55%	×
Demo2	11/30/16 3:15 PM	80%	×
Demo3	11/30/16 3:20 PM	67%	×
test1	10/4/16 7:45 AM	0%	×
test2	10/4/16 7:47 AM	0%	×
test21	11/25/16 1:09 PM	38%	×

4.0.0.16

Connected to Demo Instrument

1

Select



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

2

Delete

DELETE 2 JOBS

Second, press the delete button and confirm the action.

3

Return to Job List

[1.3.3. Job List](#)



### 1.3.3.3. Export Job Database

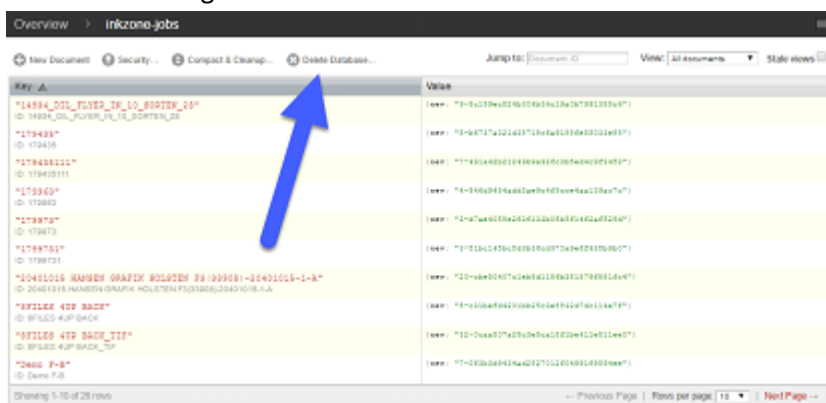
The following procedure describes how to migrate the InkZoneMove job database to another computer:

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

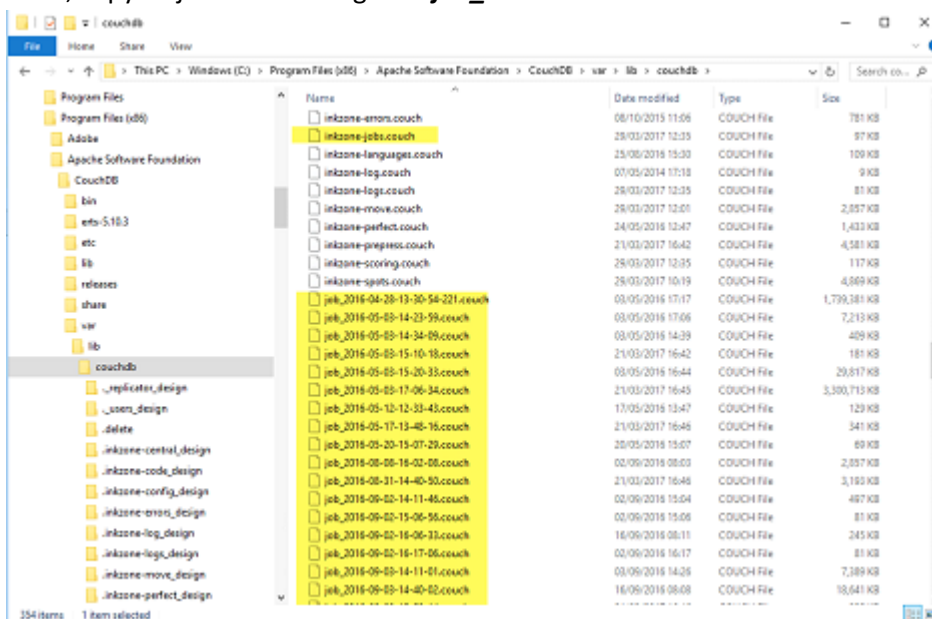
1. Install IZM4 on the target PC
2. On the target system, open [http://localhost:5984/\\_utils/database.html?inkzone-jobs](http://localhost:5984/_utils/database.html?inkzone-jobs) and select **Delete Database** from top commands

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](#)
- [1.4.2.2. Production Report Summary](#)
- [1.4.2.2. Production Report Summary](#)
- [1.4.2.3. Sheet Report Summary](#)
- [1.4.2.4. Sheet Reports](#)
- [1.4.2.5. Trend on Density](#)
- [1.4.2.6. Trend on Lab and TVI](#)
- [1.4.2.7. Sheet Reports with Lab](#)
- [1.4.2.8. PDF output](#)

### 1.4.2.1. Job List

8 Go to Report Views

The screenshot shows the InkZoneMove Job List interface. On the left, a sidebar contains icons for Job list (1), Job info (2), Start date / time (3), Total score (4), Open in IZMove (5), Show report (6), and Select job (7). The main area displays a table of jobs with columns for Job name, Date, and Scoring. A search bar is at the top right. A blue bar on the right side of the table indicates the total score for each job. The bottom status bar shows 'v4.2.0.16' and 'Connected to Demo Instrument'.

Job name	Date	Scoring
Cover_Illu_12398 Rexton	23/08/17 14:55	95%
08 AGOSTO_1A_CMYK Rexton	09/08/17 10:56	72%
test scan 1 to 6 nr2 Rexton	07/06/17 15:46	32%
test scan 1 to 6 Rexton	07/06/17 15:35	51%
1464223 Abott	05/06/17 11:04	35%
Job 2987 Rotas	05/06/17 10:54	32%
181043-02 Rexton	07/04/17 10:21	43%
Photoset 3 Rexton	20/02/17 07:42	66%
SVE test export Rexton	02/02/17 07:42	66%

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**

95%

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**

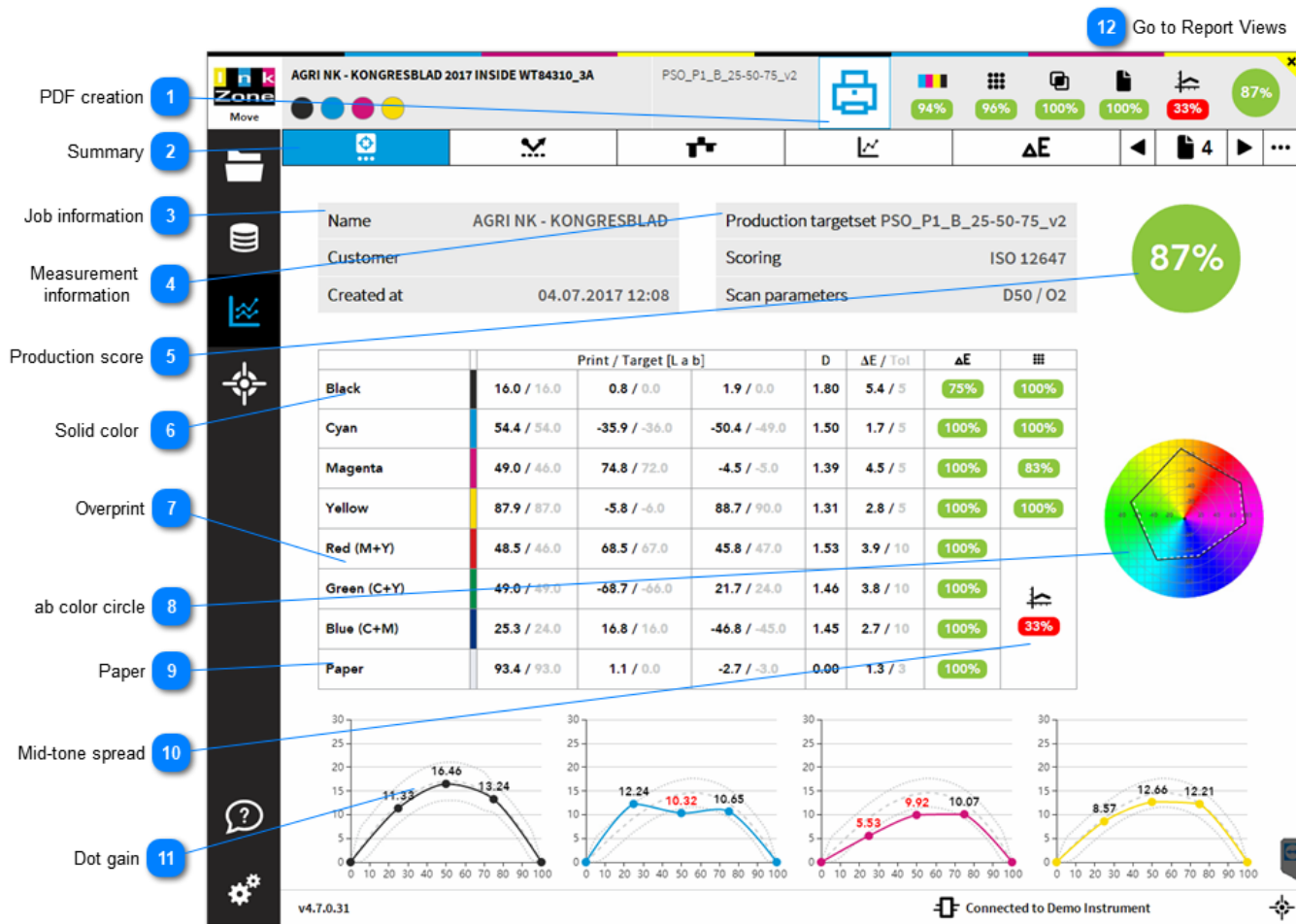
Select a job for export or removal.

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

87%

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

6

### Solid color

Read columns like:

Summary	1			2	3	4	5
	Print / Target [L a b]			D	ΔE / Tol	ΔE	6
Black	16.0 / 16.0	0.8 / 0.0	1.9 / 0.0	1.80	5.4 / 5	72%	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%	53%
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%	
Paper	93.4 / 93.0	1.1 / 0.0	-2.7 / -3.0	0.00	1.3 / 3	100%	

[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

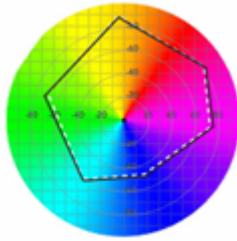
### Overprint

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

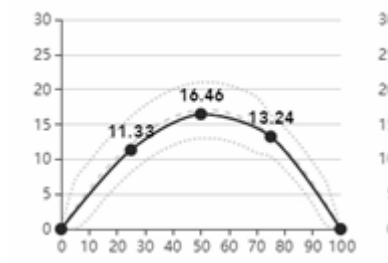
### Mid-tone spread



Score on CMY mid-tone spread

11

### Dot gain



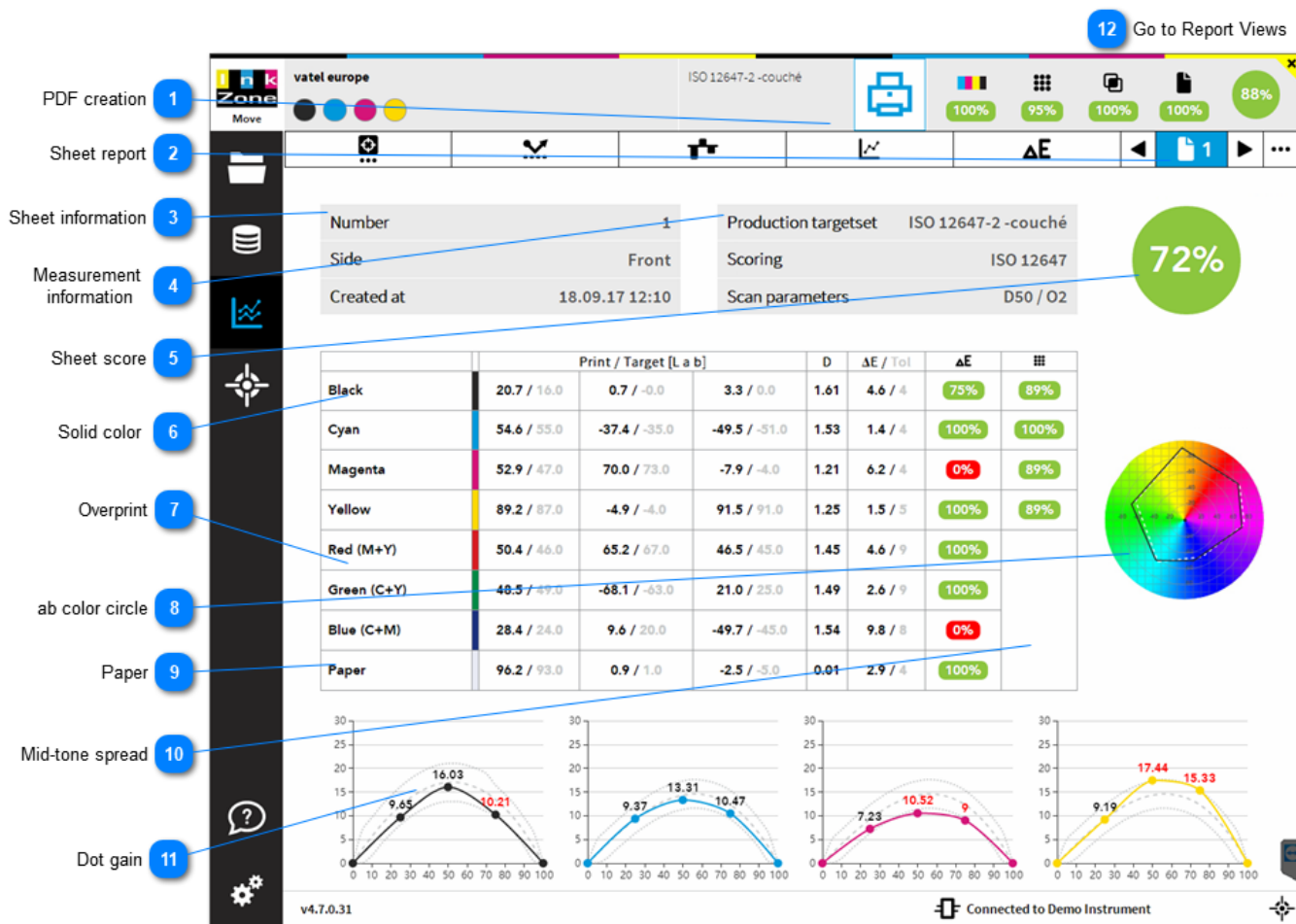
Tone value increase cure with print result and tolerance area.

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

72%

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

6

## Solid color

Read columns like:

Summary	1			2	3	4	5
	Print / Target [L a b]			D	ΔE / Tol	ΔE	6
Black	16.0 / 16.0	0.8 / 0.0	1.9 / 0.0	1.80	5.4 / 5	72%	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%	53%
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 10%
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%	
Paper	93.4 / 93.0	1.1 / 0.0	-2.7 / -3.0	0.00	1.3 / 3	100%	

[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

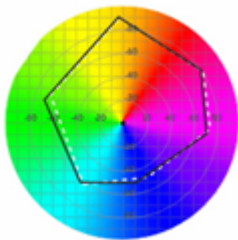
## Overprint

Red (M+Y)	50.4 / 46.0	65.2 / 67.0	46.5 / 45.0	1.45	4.6 / 9	100%
Green (C+Y)	48.5 / 49.0	-68.1 / -63.0	21.0 / 25.0	1.49	2.6 / 9	100%
Blue (C+M)	28.4 / 24.0	9.6 / 20.0	-49.7 / -45.0	1.54	9.8 / 8	0%

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

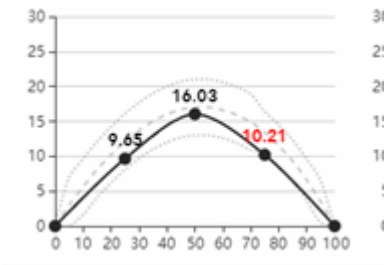
Mid-tone spread



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

7 Go to Report View

Sheet reports 1

Scan information 2

Export to IZTVI 9

Scan number and time 3

Select for IZTVI 8

Scoring on criteria 4

Total sheet score 5

MakeReady indicator 6

Sheets scanned 87

Final measurement date 19.09.17 10:33

EXPORT TO IZ TVI

Scan number	Time	MakeReady	Color	Grid	File	Score
87	10:33	<input checked="" type="checkbox"/>	94%	97%	100%	100%
86	10:32	<input type="checkbox"/>	94%	91%	100%	100%
85	10:30	<input type="checkbox"/>	94%	91%	100%	100%
84	10:30	<input type="checkbox"/>	94%	91%	100%	100%
83	10:28	<input type="checkbox"/>	94%	81%	100%	100%
82	10:23	<input type="checkbox"/>	94%	84%	100%	100%
81	10:21	<input type="checkbox"/>	94%	81%	100%	100%

v4.7.0.31

Connected to Demo Instrument

## 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 taken

## 3 Scan number and time

87 10:33

86 10:32

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**

94%



97%



100%



100%

Scoring for every criteria:

- solid color CMYK - deltaE
- TVI
- overprint - deltaE
- paper - deltaE

5

**Total sheet score**

97%

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.

3 Go to Report View



1

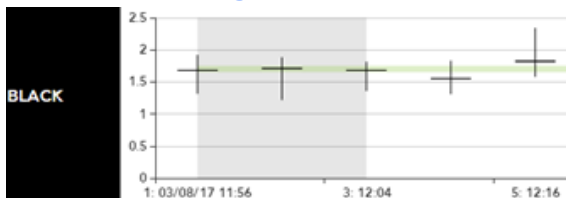
#### Density trend



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

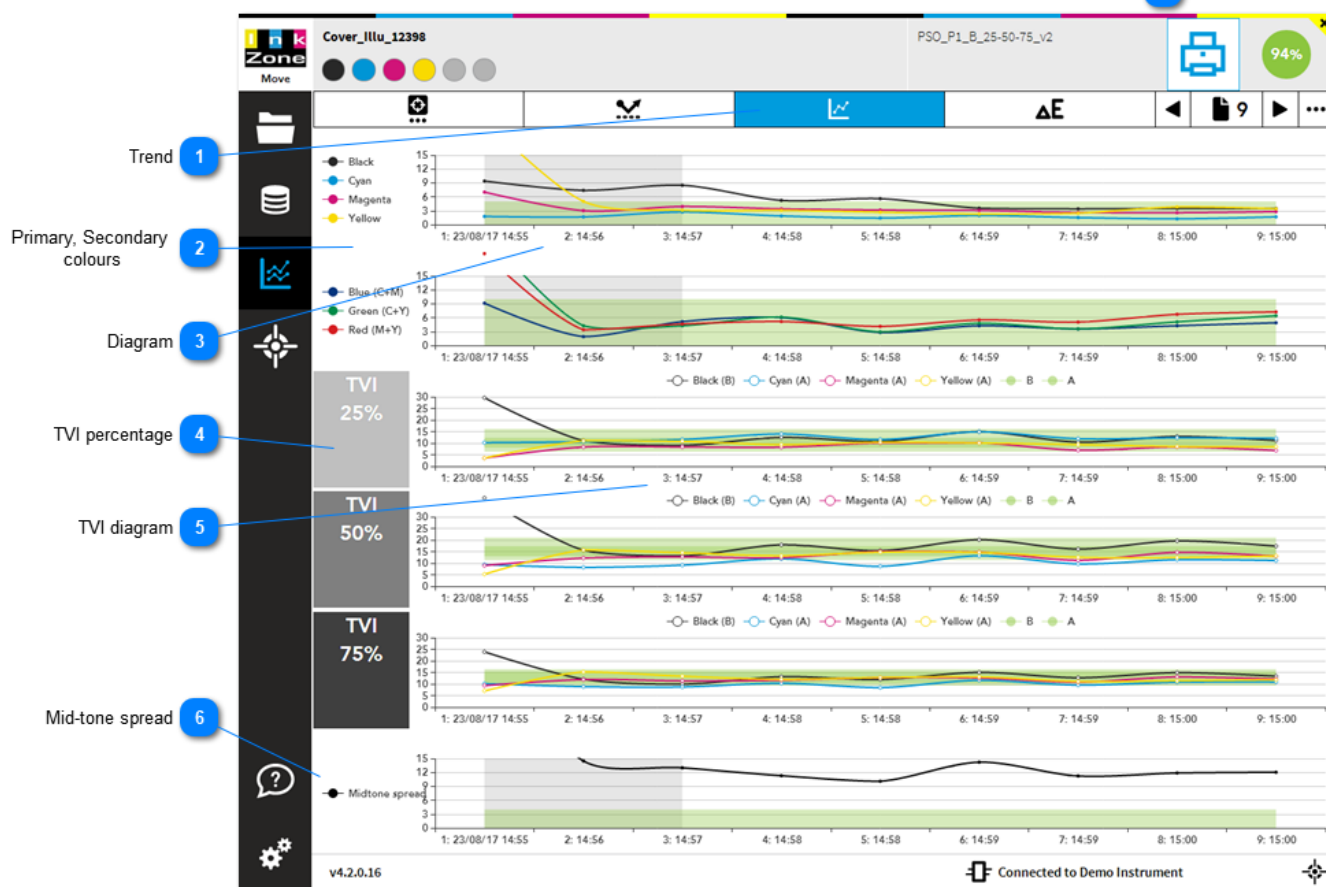
#### Go to Report View

[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.

7 Go to Report View



#### 1 Trend



Opens trends

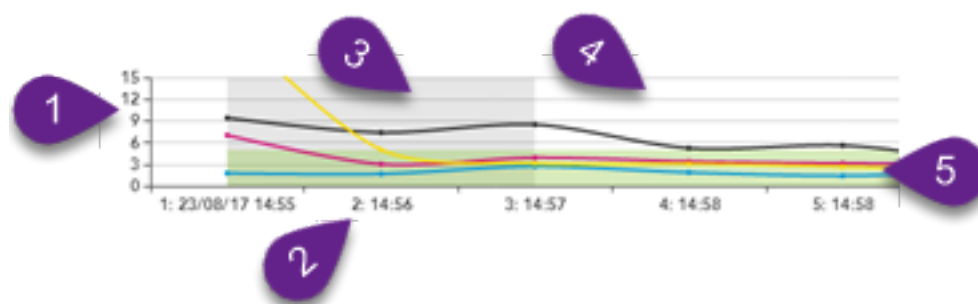
#### 2 Primary, Secondary colours



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.

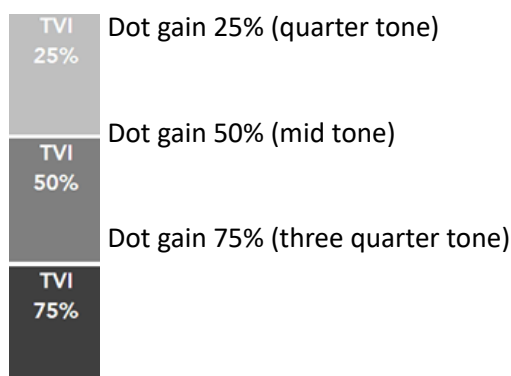


- 1) DeltaE scale
- 2) Measurement number and time stamp
- 3) Grey area = status MakeReady mode
- 4) White area = status Production mode
- 5) Green area = tolerance

4

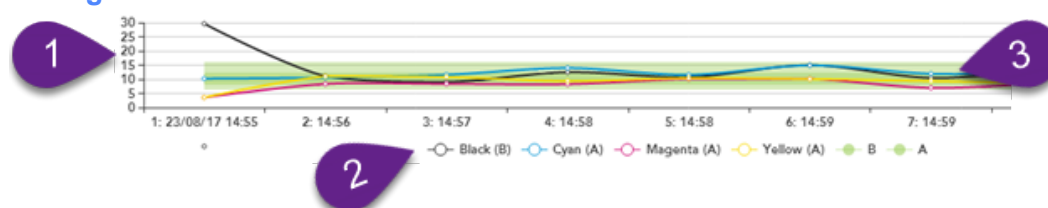
#### TVI percentage

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



5

#### TVI diagram



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

6

#### Mid-tone spread

Midtone sprea

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.

8 Go to Report Views

**DeltaE sheet report**

**Sheet number and date / time**

**Target Lab**

**Measured Lab**

**Colour difference**

**DeltaE tolerance**

**Assessment**

Sheet	Time	Target Lab	Measured Lab	Colour difference	DeltaE	Tolerance	In target				
1: 23/08/17 14:55	14:55	Black	16	0	0	12.48	-0.52	-1.96	9.41	5	3.45%
		Cyan	54	-36	-49	54.66	-34.85	-48.61	1.76	5	100%
		Magenta	46	72	-5	50.66	67.84	-8.09	7.02	5	0%
		Yellow	87	-6	90	86.25	-6.68	67.27	22.8	5	0%
		Blue (C+M)	24	16	-45	30.09	9.21	-45.24	9.13	10	100%
		Green (C+Y)	49	-66	24	49.91	-58.06	0.69	24.68	10	0%
		Red (M+Y)	45.99	67	47	50.33	59	29.74	19.83	10	0%
2: 14:56	14:56	Black	16	0	0	17.52	0.53	1.1	7.39	5	41.38%
		Cyan	54	-36	-49	53.86	-35.3	-50.02	1.66	5	96.43%
		Magenta	46	72	-5	47.16	73.72	-3.3	3.01	5	92.86%
		Yellow	87	-6	90	85.09	-4.34	91.84	5.02	5	71.43%
		Blue (C+M)	24	16	-45	25.68	16.42	-45.03	1.91	10	100%
		Green (C+Y)	49	-66	24	47.98	-63.47	26.89	4.25	10	100%
		Red (M+Y)	45.99	67	47	47.21	64.92	48.29	3.39	10	100%

v4.2.0.16 Connected to Demo Instrument

1

**DeltaE sheet report**

**ΔE**

Opens DeltaE report for every measured sheet

2

**Sheet number and date / time**

1: 23/08/17 14:55

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.

5 Sample reports 4 Go to PDF Report Template 3 Go to Report Views

PDF output 1 Setup 2

Name: vatel europe  
Customer: vatel europe  
Created at: 18.09.2017 12:10  
Production targetset: ISO 12647-2 -couché  
Scoring: ISO 12647  
Scan parameters: D50 / O2

88%

Print reports

Print settings

Report type: Print Production-Report  
Template: Standard  
Paper size: A4  
Send email: ☐

Paper: 96.0 / 93.0 1.0 / 1.0 -2.7 / -5.0 0.01 2.7 / 4 100%

Connected to Demo Instrument

1

#### PDF output



Start here to create a PDF sheet or production report

2

#### Setup

Print reports

Print settings

Report type: Print Production-Report  
Template: Standard  
Paper size: A4  
Send email: ☐

#### 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

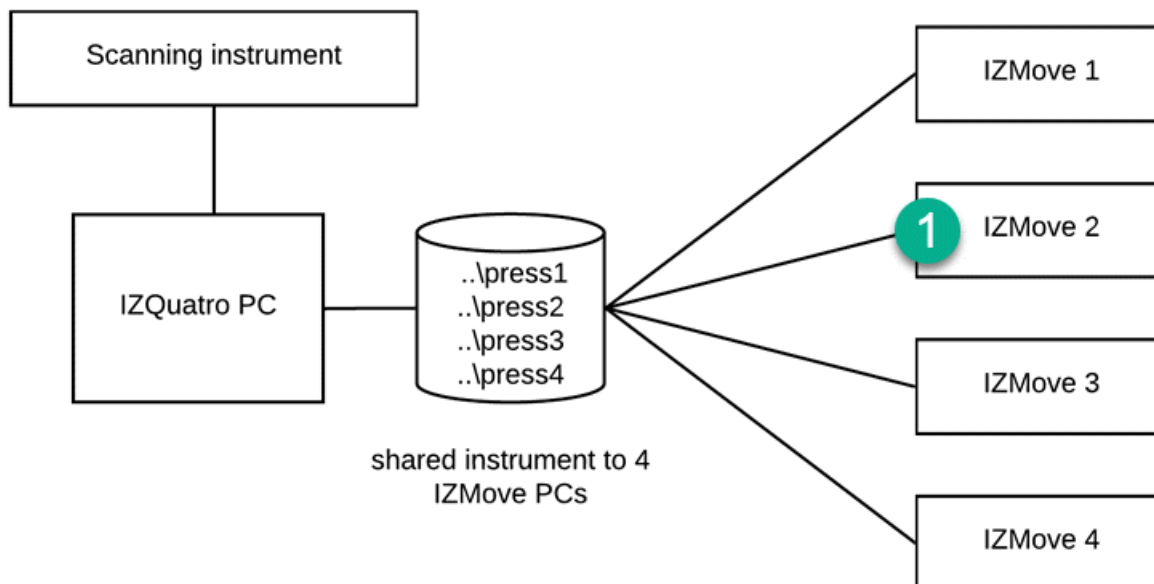
**Sample reports**

[Sample](#)

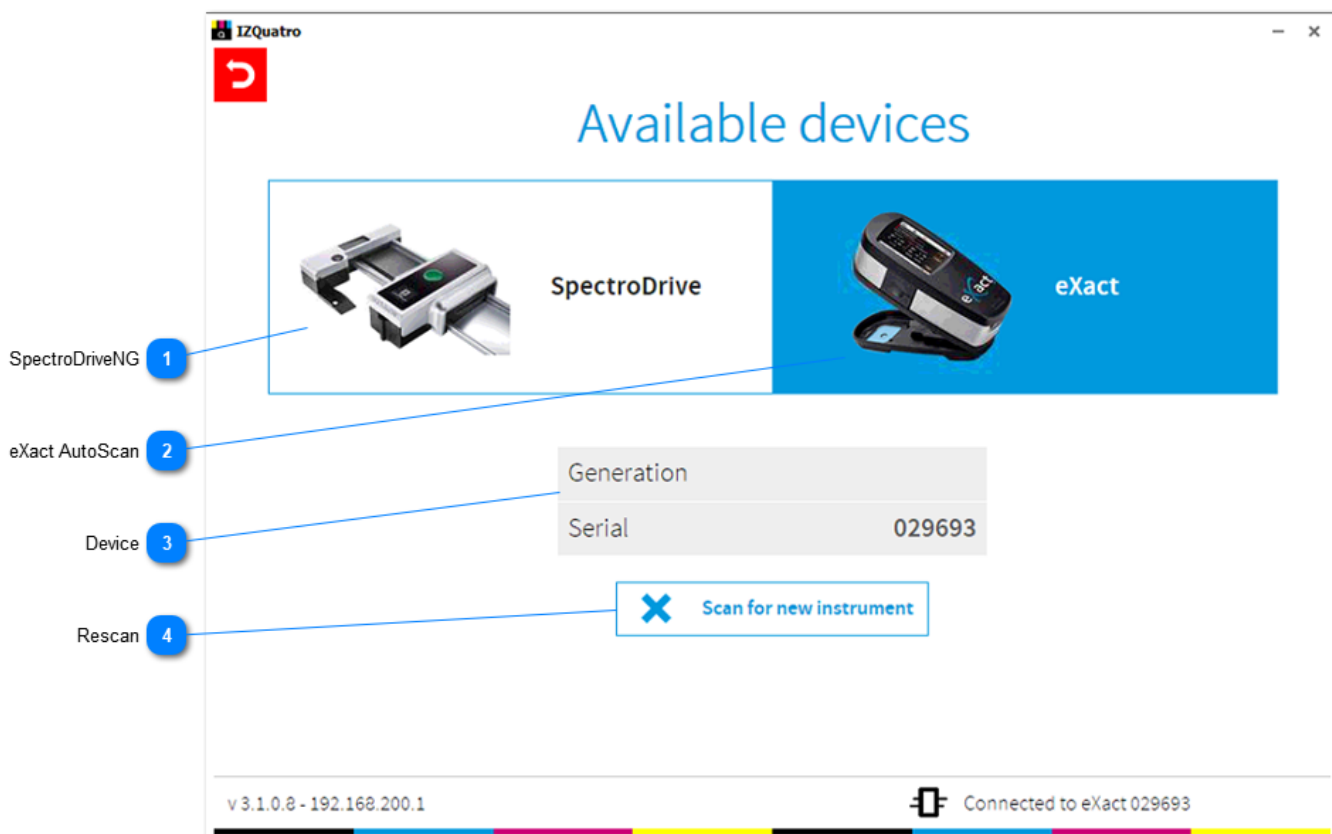
## 1.5. IZQuatro v3

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****SpectroDrive**

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****eXact**

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**

Generation	
Serial	029693

Device serial number

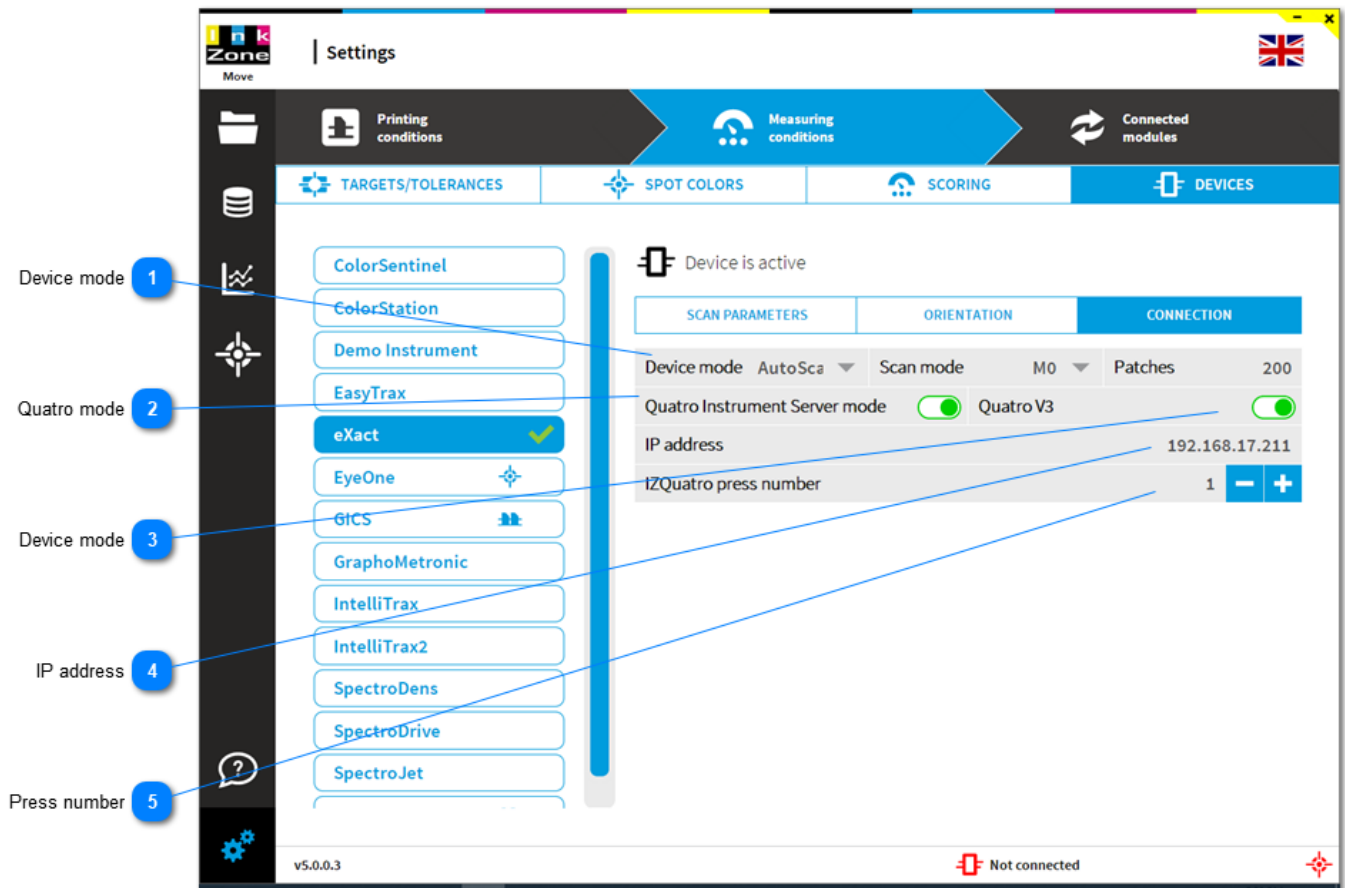
4

**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**

Device mode AutoSca ▼

Select AutoScan for the eXact AutoScan system

2

**Quatro mode**Quatro Instrument Server mode ☒

Activate the IZQuatro server mode

3

**Device mode**Quatro V3 ☒

For eXact EAS and SpectroDrive NG select Quatro V3

4

**IP address**

IP address 192.168.17.211

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](#)

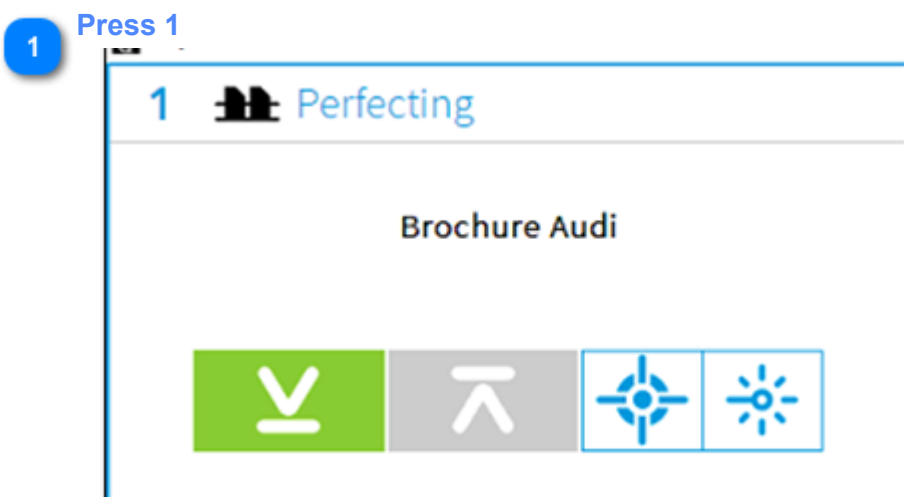
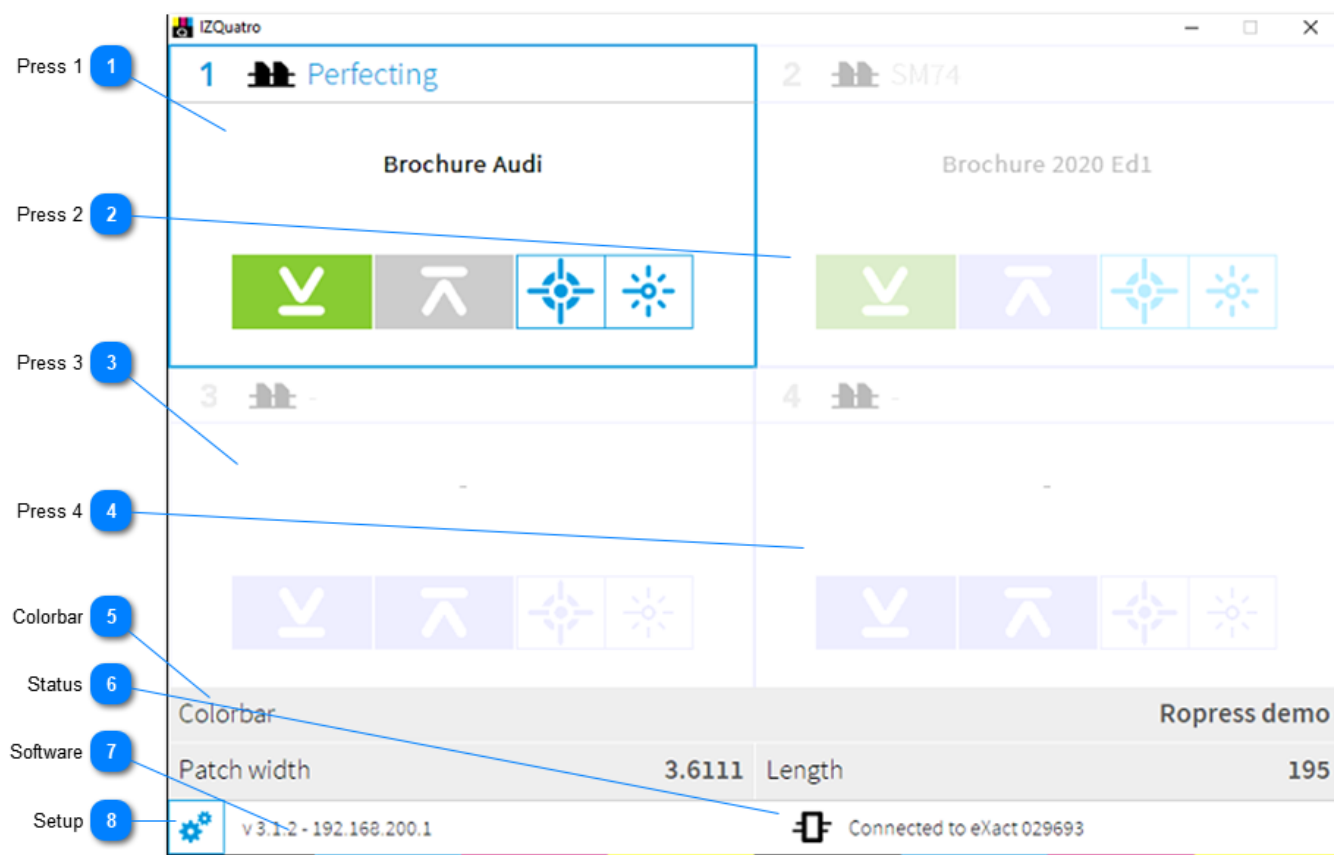
5

**Press number**

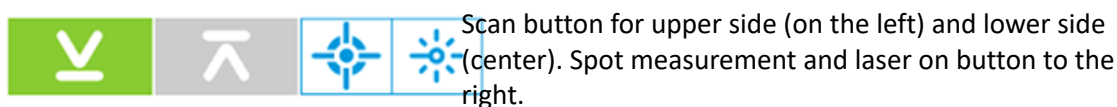
IZQuatro press number 1 - +

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



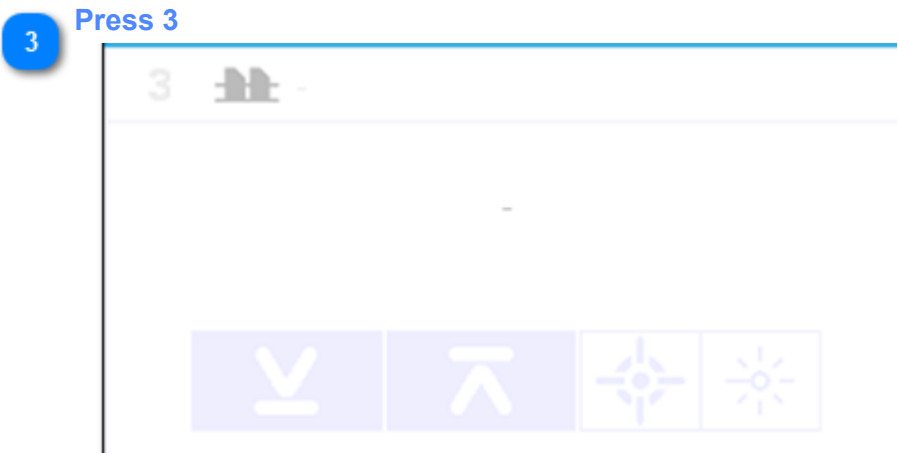
Settings for press 1 with press name on the top and job name in the center.



## 2 Press 2



Press 2 scan and job area



Press 3 scan and job area



Press 4 scan and job area

**5** Colorbar

Colorbar		Ropress demo	
Patch width	3.6111	Length	195

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



6

**Status**

Connected to eXact 029693

Device status messages

7

**Software**

v 3.1.2 - 192.168.200.1

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

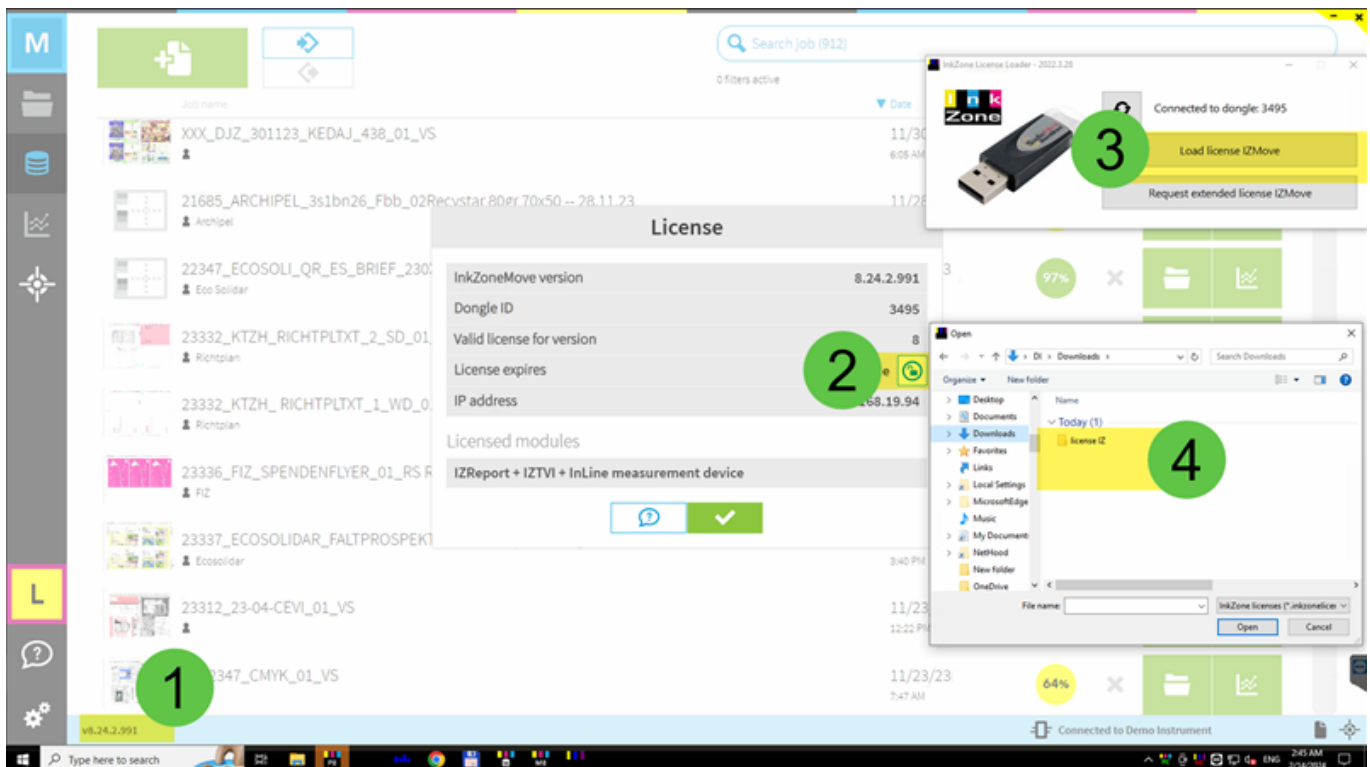
## FAQ section

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

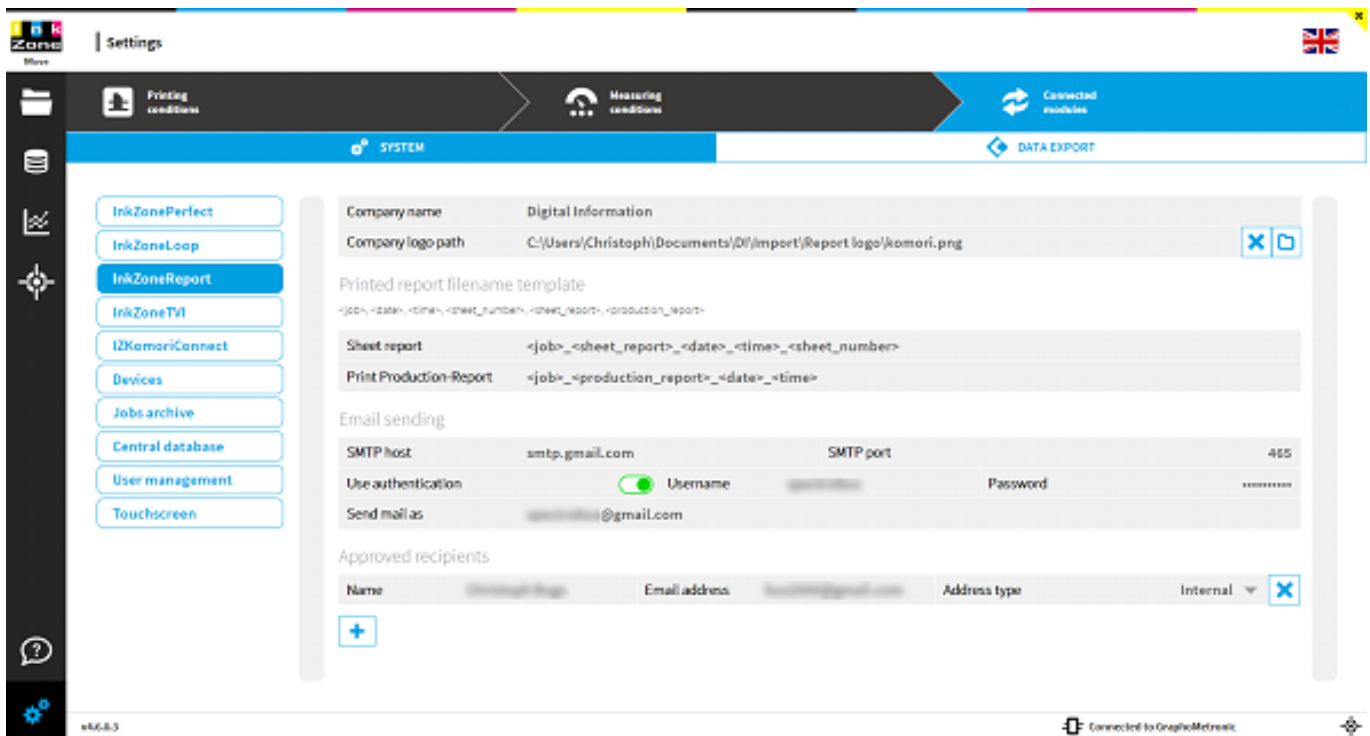
### a) Setup

- # 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(0000010C)
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-----
MIIEEjCCAGAwIBAgITZPN1IDpglAwDQYJKoZIhvcNAQELBQAwVDELMakGA1UE
BhMCVVMxHjAcBgNVBAoTFUdub2dsZS5UcnVzdCB7ZXJ2aWw1czElMCHGA1UEAxMc
R29vZ2xlIE1udGVybmV0IEF1dGhvcml0eSBHMzAeFw00AAMDCxODM4NDVaFw0x
ODEwMTYxODI4MDBaMGcxCA7BgNVBAYTA1VTMRMwEQYDQKIDApDyVwXpZm9ybm1h
MRYwFAYDQQA1NnB3VudGFpb1BwakV3MRMwEQYDQKIDApHb29nbGUGTExDMRcw
FQYDQQA0DASzbxRwLndYw1sLmNvbTCCASAwDQYJKoZIhvcNAQELBQADggEPApDCC
AQoCggEBAL26yDZmwrQUOps/g+MhejCdYb9v1Dk/cSL9g4HEmJ42Urw0KEBOjo0F
DYncdHyd1dFtGtZJ0CuyhKXuwqLPKnM1RpERS0viQ262GTSXXBKpVf/f0whF7h
5CeuaINipYvmjP2u16vVPn/guzcGz6dxmZPjuc5G56eG87GhEwMCOXpDa08FPn4
YAnp5Z0ENBAAWumAaAskUha0bVsvm0ob/1sAmZd4bp0W1WUDebwRpaIn3EY1aP0
aJXOMoxpSoy7sVkgqk1s6NM45B53uw+1CwNpwHvD0Z6Kyh01GhMwJcgdFXC/V7Qp
a1HpGmYbgwn7P0VZKU+wh1v/B0tM5RMCAwEAaOACAUIwggE+MBMGA1UdJQQMMAoG
CCsGAQUFBwMBMBkGA1UdEQQ5MBCCDnNtDHAUZZ21haWwY29tMGgGCCsGAQUFBwEB
BFwwJAtBgggrBgEFBQcwAoYhaHR0cDovLzB3Bra55nb29nL2dzcjIvR1RTR01BRzMu
Y3J0MCKGCCsGAQUFBzABhh1odHRwOi8vb2Nzc5ua2kuZ29vZy9hVFNHsUHFHAd
BgNVHQ4EFgQUiP8juiQFdd5W5Nq6I9svP21TmPLMwDAYDVR0TAQH/BAIwADAF8gNV
HSMEGDAWgBR3wrhQmnd2drEtwobQg6B+pn66SZAhhBgNVHSAEGjAYMAwGCisGAQQB
1nkCBQwCAYGZ4EMAQICMDEGA1UdHwQqMCgwJqAKoCKGIGh0dHA6Ly9jcmwucGtp
Lmdvb2cvR1RTR01BRzMuY3J0MCKGCCsGAQUFBzDQDEBCwUAA4IBAQA8RwF77uzMvch
8fhvLYOQFN12y1C00q5F8zjy+aaABm3U/eBw1IYov39+Z6IQvt44NmNIW3H9aKAA
dLUU7cHk0zVJ7V3hJW/1T0fRnsE58s0tD1o7dhobTpnImFY1XTCUElz7QBhTt810
yp4cPYe5Z9PKbXqa9qc9U1askXL68yuHE+RYk448g839hg1wRcIvJXipyY1Y6S
ZKnh2bug5HijYKxMdyJ6K8Zkqar9EIdZSy2I8eRrK3qVidmvyNA0w3kh/opLm37
bdeFCaJI/JKj8oXWj6V04Q1lvh9nZNP1LNeGQqG2fvD8J5h8Wayo7i203diq4fnY
c5n3mDCU
-----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](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  $2 \times 2 = 4$ .
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:

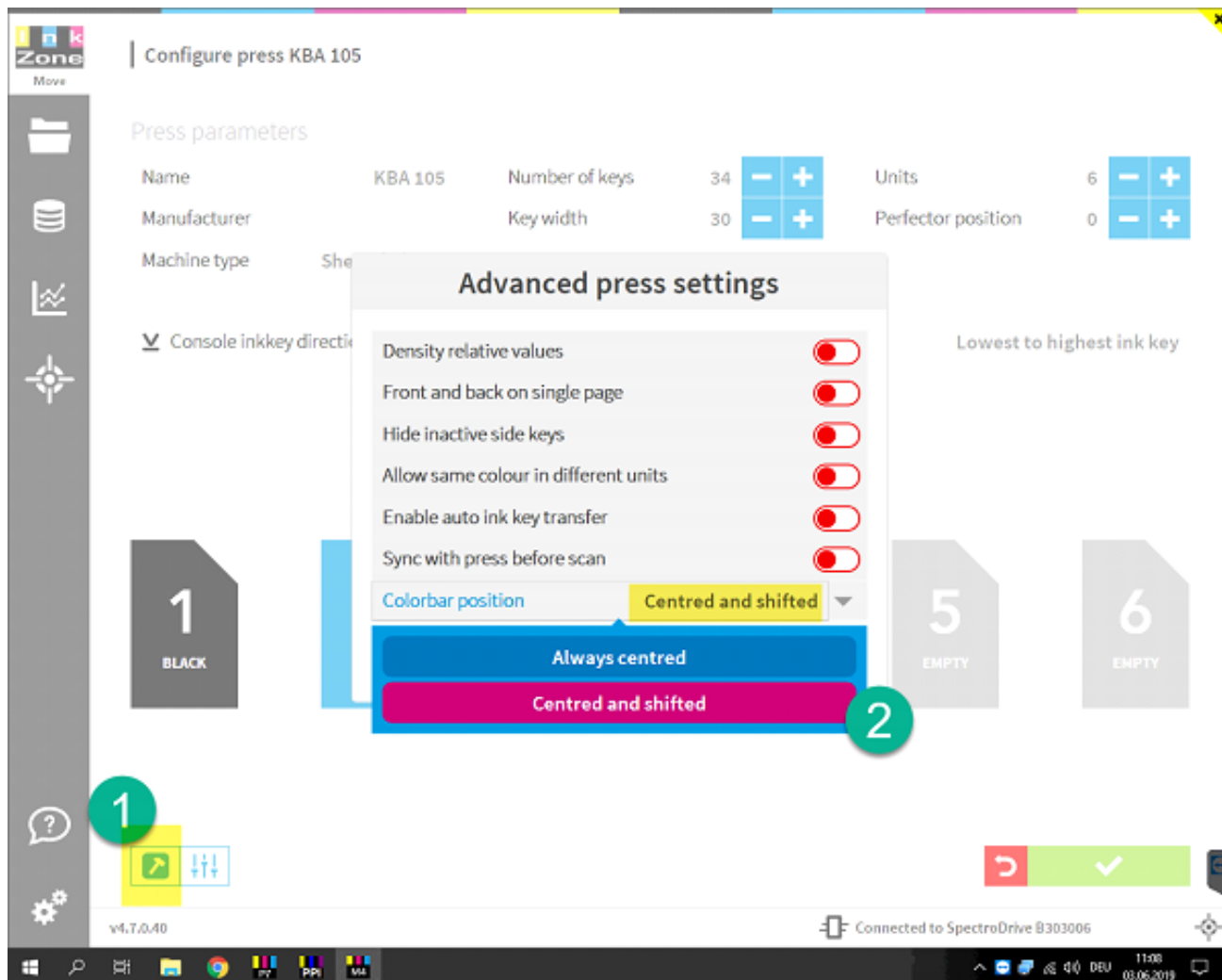
[http://localhost:5984/photon/\\_design/photon/index.html#inkzone-central/config-move](http://localhost:5984/photon/_design/photon/index.html#inkzone-central/config-move)

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

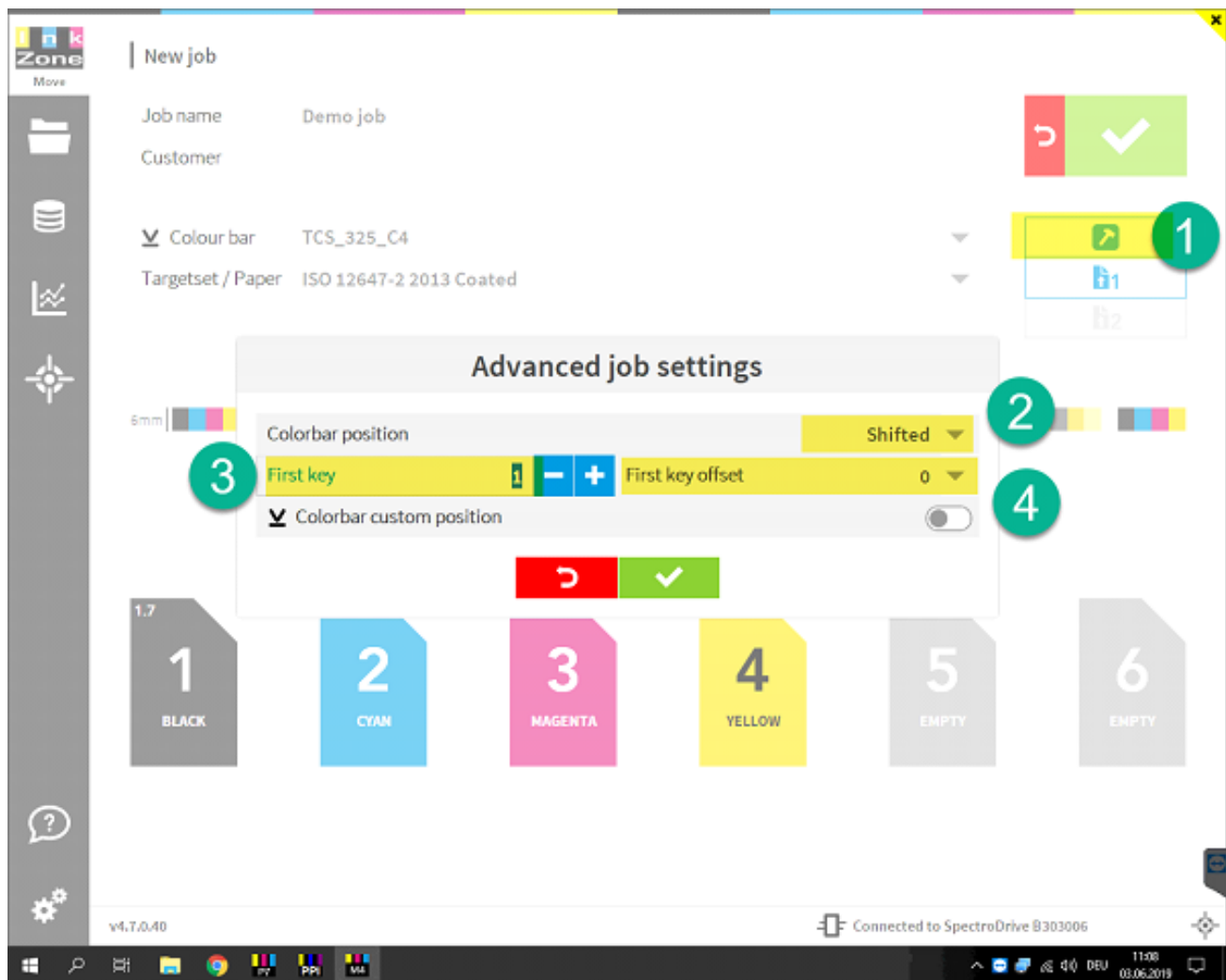
Use the following setup parameters when the colorbar is not printed centred over press machines ink-keys.

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



- 1) Advanced press settings
- 2) Choose centred and shifted

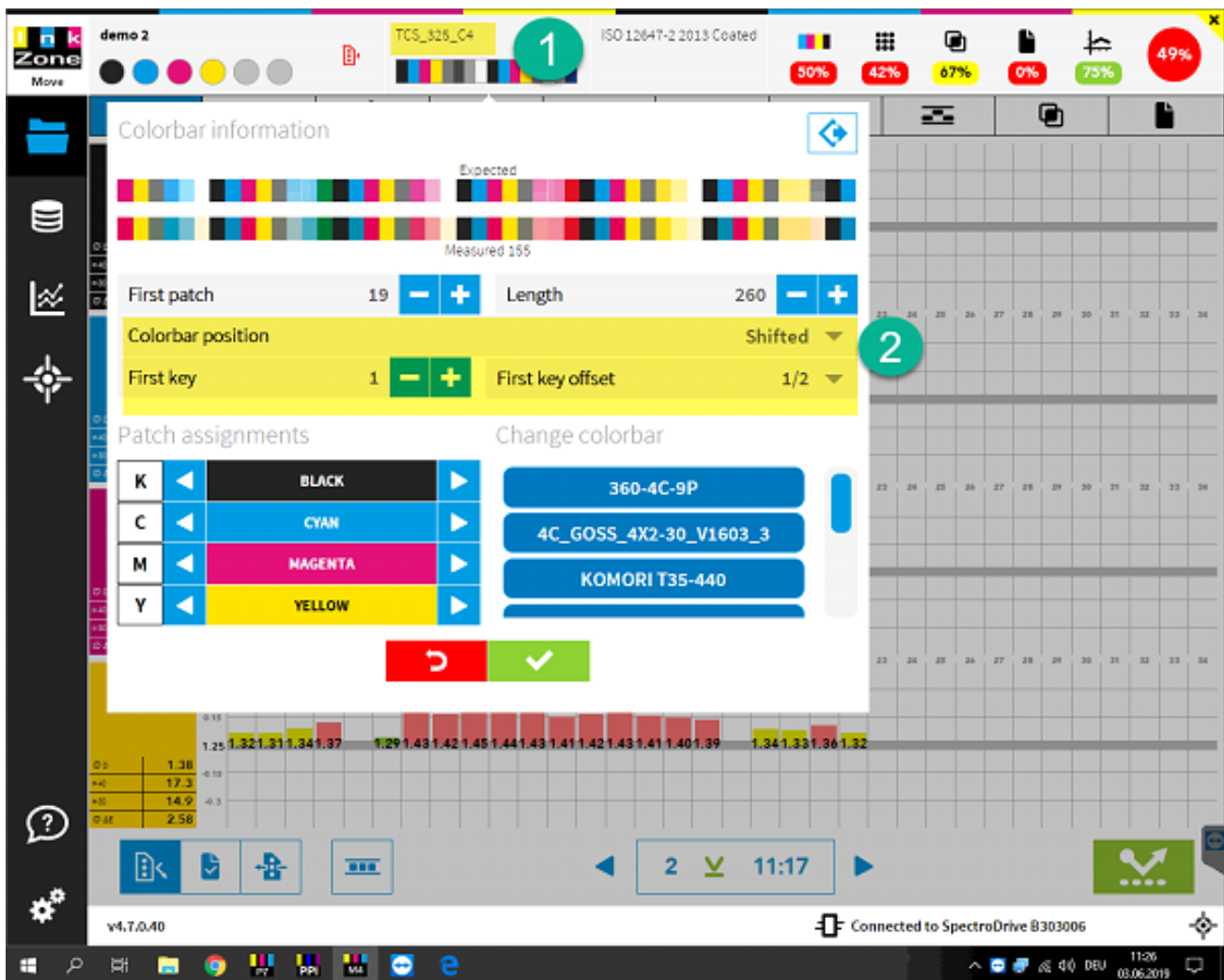
## 2) Job setup



- 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  $\frac{1}{4}$  or  $\frac{1}{2}$  or  $\frac{3}{4}$  within the selected ink-key (selected at 3)



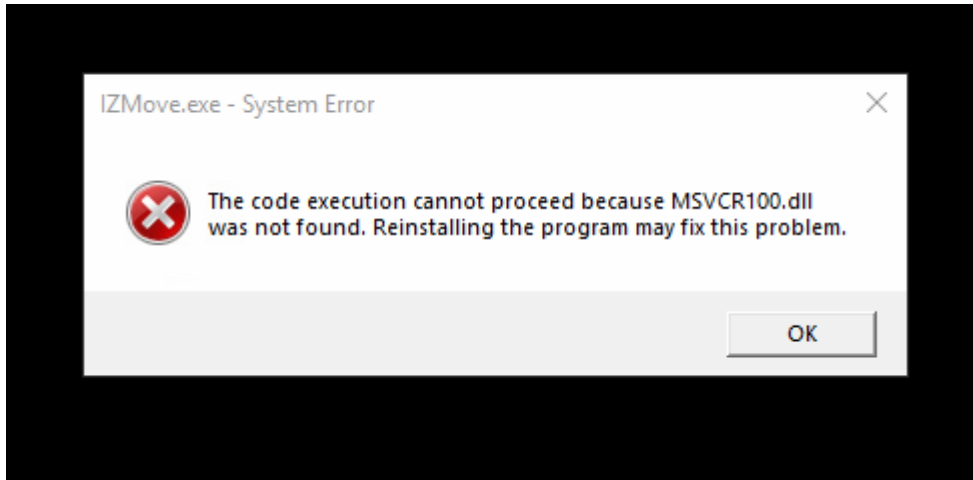
## 3) Change colorbar parameter during print



- 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

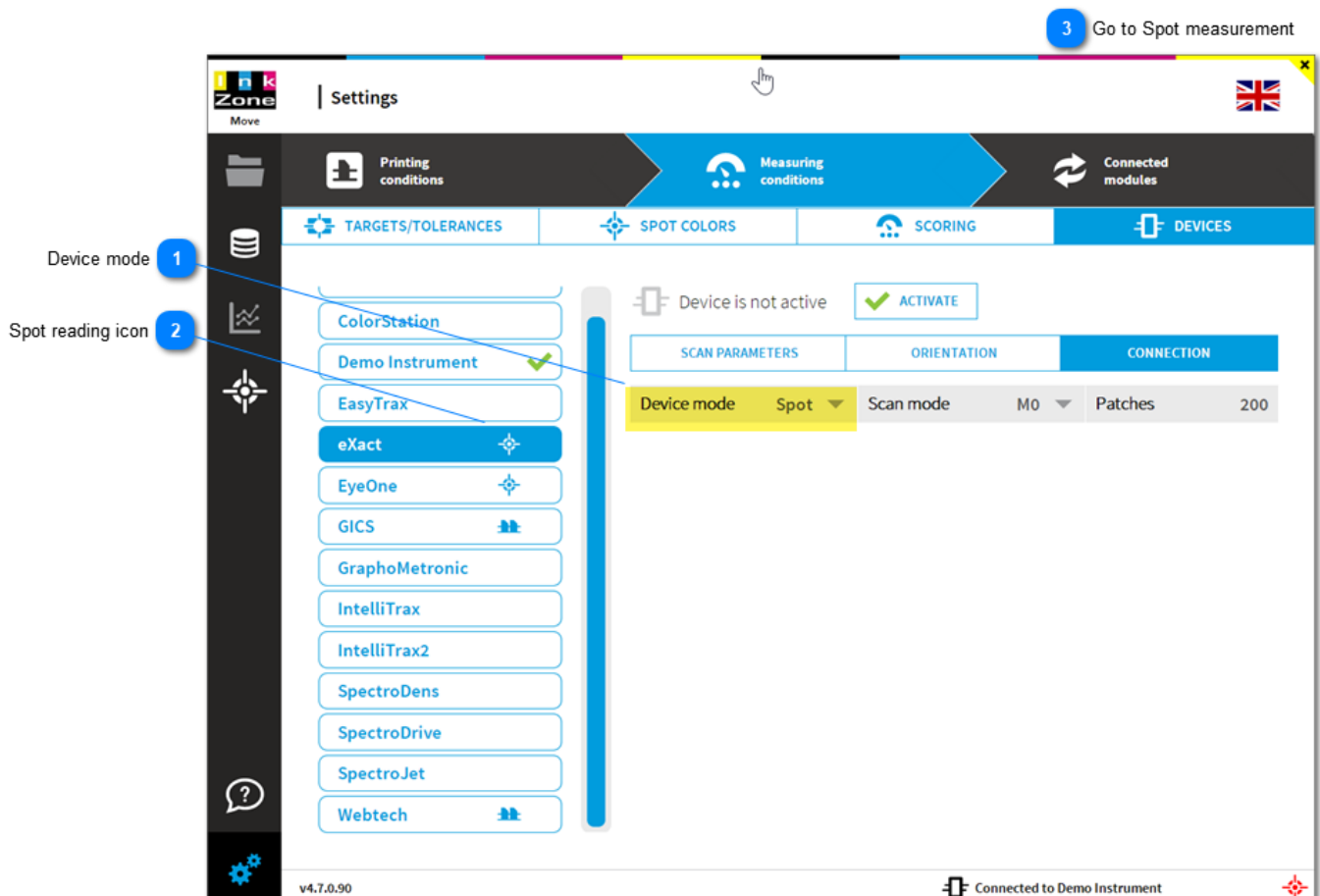
Go to the InkZoneLoop setting in the system setup: [1.2.7. System Setup](#)

### Add a handheld device for spot reading

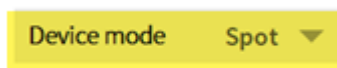
The X-Rite i1 or X-Rite eXact device can be used for spot reading when IntelliTrax or others.

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

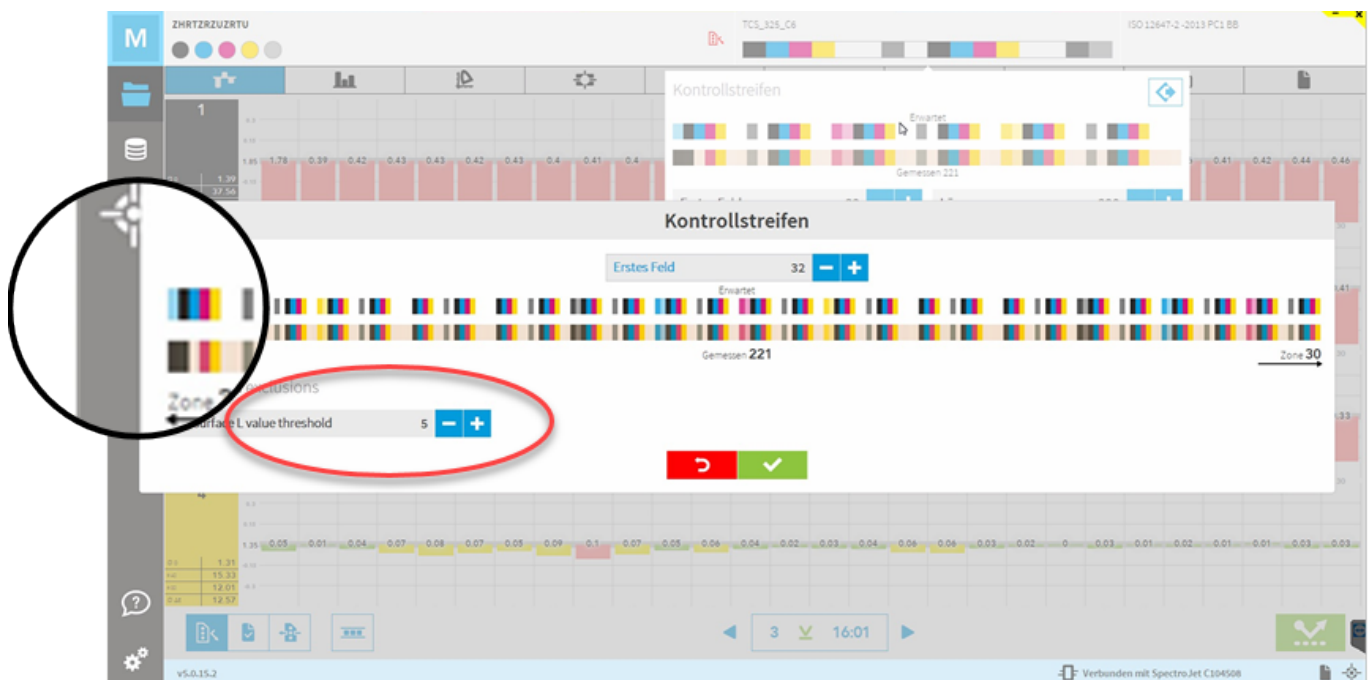
The scanning instrument scans the colorbar and may return to the data of the real colorbar the data for the area left and right of the sheet. These patches are invalid and need to be removed automatically.

[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.

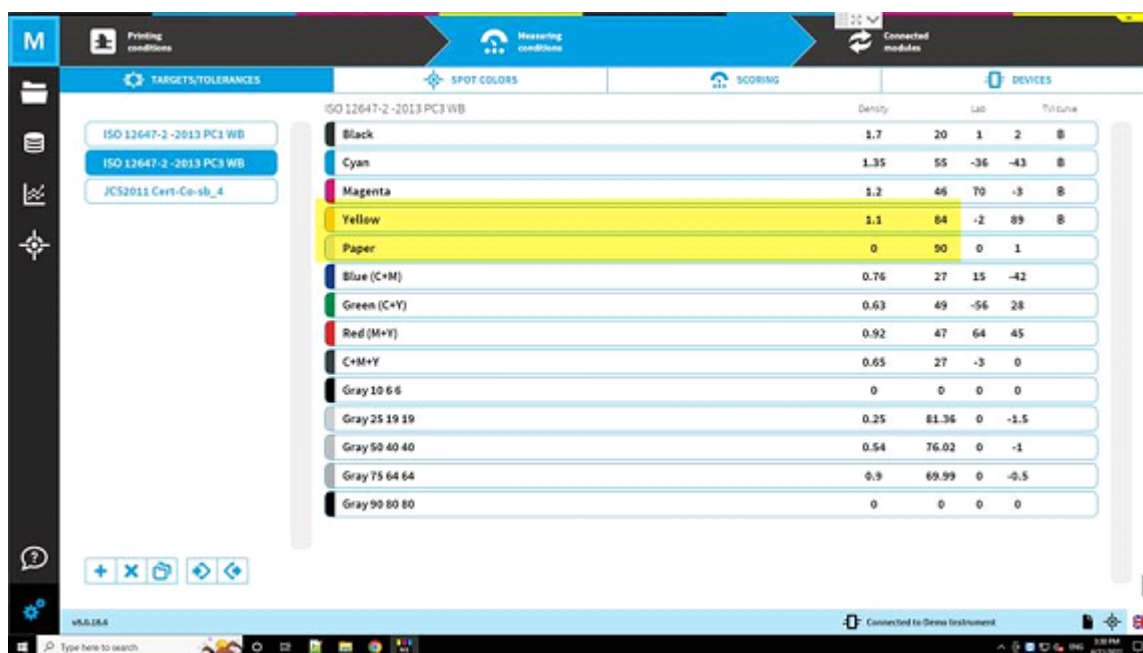
InkZoneMove excludes patches where the L value indicates a paper. Depending on the paper itself (coated, uncoated etc), the L is somewhere between e.g. 90 and 95. The critical L for a yellow patch are somewhere between e.g. 84 to 89.

### Coated

The screenshot shows the InkZoneMove software interface with a table of color calibration targets and tolerances. The table lists various color patches and their corresponding L, a, and b values. The 'Paper' patch is highlighted in yellow.

Patch	Density	L*	a*	b*	Tolerance
Black	1.85	16	0	0	A
Cyan	1.45	55	-36	-51	A
Magenta	1.4	48	75	-4	A
Yellow	1.35	89	-4	93	A
Paper	0	95	1	-4	
Blue (C+M)	0.76	25	20	-46	
Green (C+Y)	0.63	50	-65	28	
Red (M+Y)	0.92	46	68	47	
C=bl=Y	0.65	23	0	-1	
Gray 10 6 6	0	0	0	0	
Gray 25 19 19	0.25	81.36	0	-1.5	
Gray 50 49 40	0.54	76.02	0	-1	
Gray 75 64 64	0.9	69.99	0	-0.5	
Gray 90 80 80	0	0	0	0	

### 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 colorbar (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](#)