

InkZoneReport User Guide

Find more information about the product on our website:

<http://www.digiinfo.com>

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Target group	Operator
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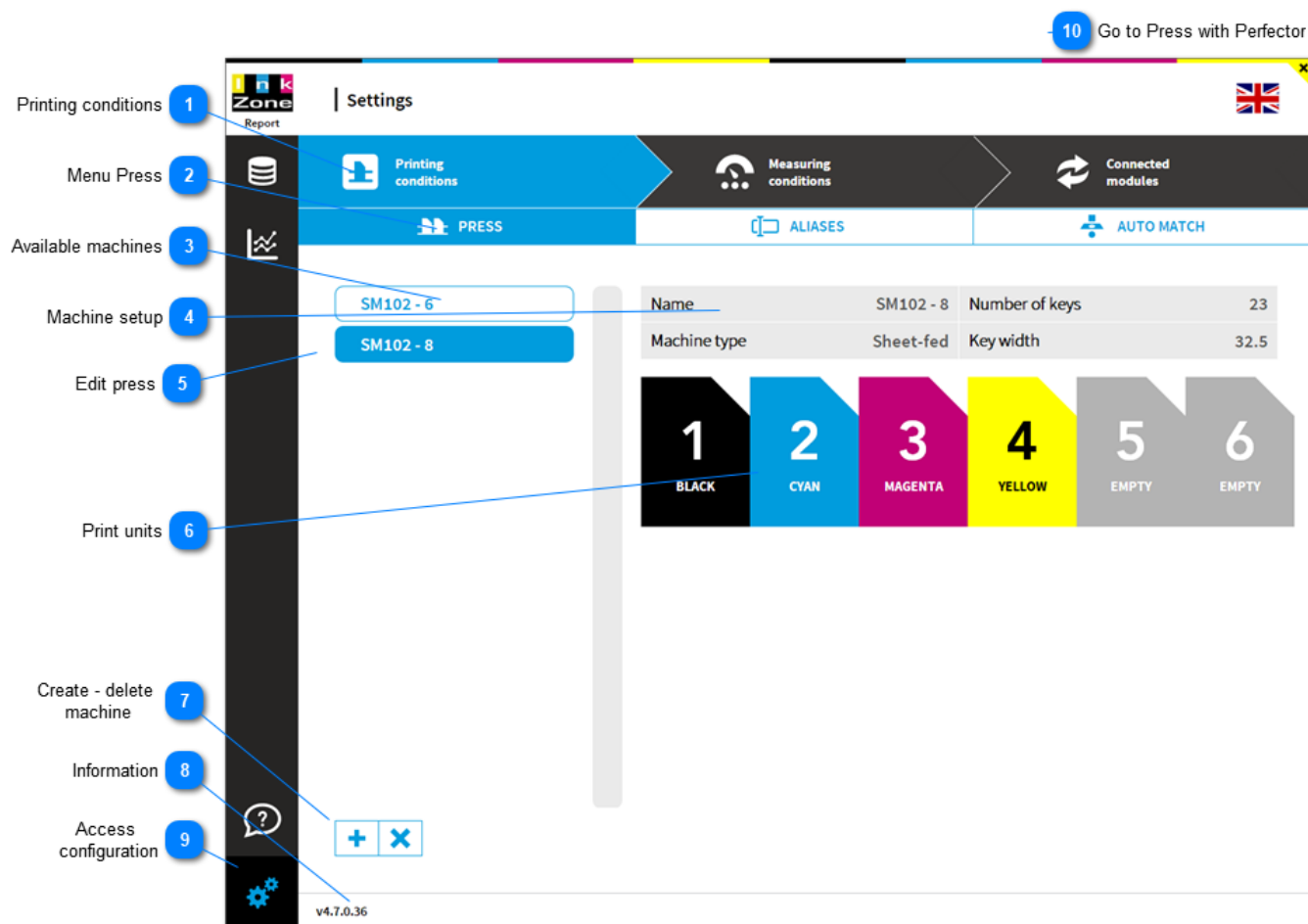
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1. Screens Online Manual

1.1. Software Setup

1.1.1. 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	SM102 - 8	Number of keys	23
Machine type	Sheet-fed	Key width	32.5

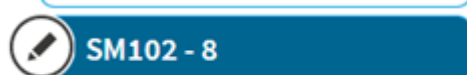
Shows the press setup. Change the settings by hovering over the press name and click on the setup button on the left.



5 Edit press



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



6 Print units



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

7 Create - delete machine



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

8 Information

v4.7.0.36

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](#)

9 Access configuration



Start with the press machine configuration here

10 Go to Press with Perfector

[1.2.1.2. Press with Perfector](#)

1.1.1.1. Press Machine 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

Applies only to InkZoneMove

6

Print units



Press colour setup.

Colour assignment:

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



7

Ink-Key Groups



Applies only to InkZoneMove

8

Advanced press settings



Not used in InkZoneReport

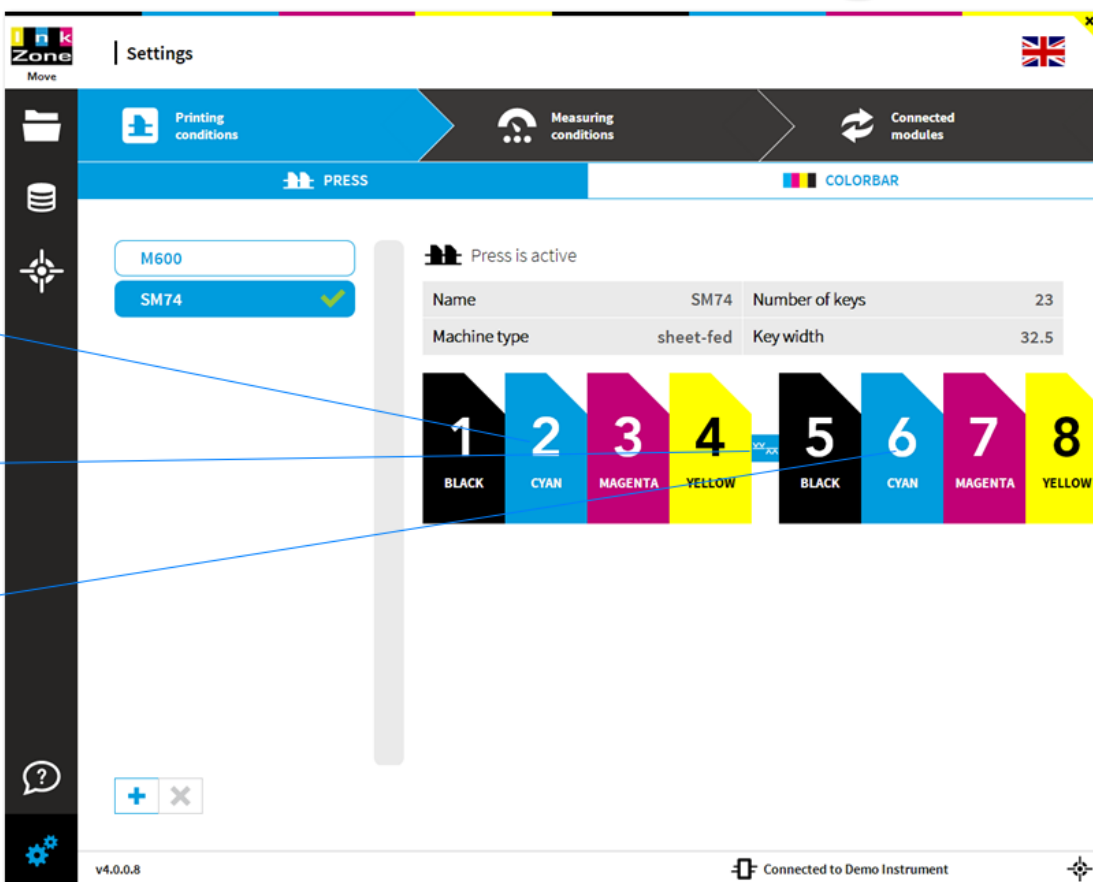


Go to Press with Perfector

See [1.2.1.3. Press with Perfector](#)

1.1.1.2. Press with Perfector

4 Go to Press Setup



Units before perfector 1

Perfector position 2

Units after perfector 3

Settings

Printing conditions

Measuring conditions

Connected modules

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

v4.0.0.8

Connected to Demo Instrument

1

Units before perfector



Print units with color sequence for units before the perfector

2

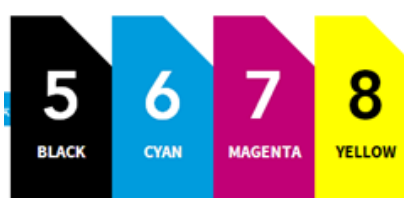
Perfector position



Perfector indicator and position in the press

3

Units after perfector



Print units with color sequence for units after the perfector



Go to Press Setup

[1.2.1. Press Setup](#)

1.1.2. Color Aliases

Settings

Printing conditions | Measuring conditions | Connected modules

PRESS | ALIASES | AUTO MATCH

Color aliases

Targetset aliases

Black coated	Black		
Black uncoated	Black		
Cyan coated	Cyan		
Cyan uncoated	Cyan		
Yellow coated	Yellow		
Yellow uncoated	Yellow		
Magenta coated	Magenta		
Magenta uncoated	Magenta		
Noir couche	Black		
Custom Red	Pantone 576 C		

v4.7.0.36

1

Process colours

Black coated	Black		
Black uncoated	Black		
Cyan coated	Cyan		
Cyan uncoated	Cyan		
Yellow coated	Yellow		
Yellow uncoated	Yellow		
Magenta coated	Magenta		
Magenta uncoated	Magenta		
Noir couche	Black		

Links, maps the solid colour names from a SVF to black, cyan, magenta or yellow or spot. In the sample above, "Black coated" and "Noir couche" are treated as Black.

2

Spot colour

Custom Red	Pantone 576 C		
------------	---------------	--	--

Maps a user defined spot colour to a spot colour from the internal database

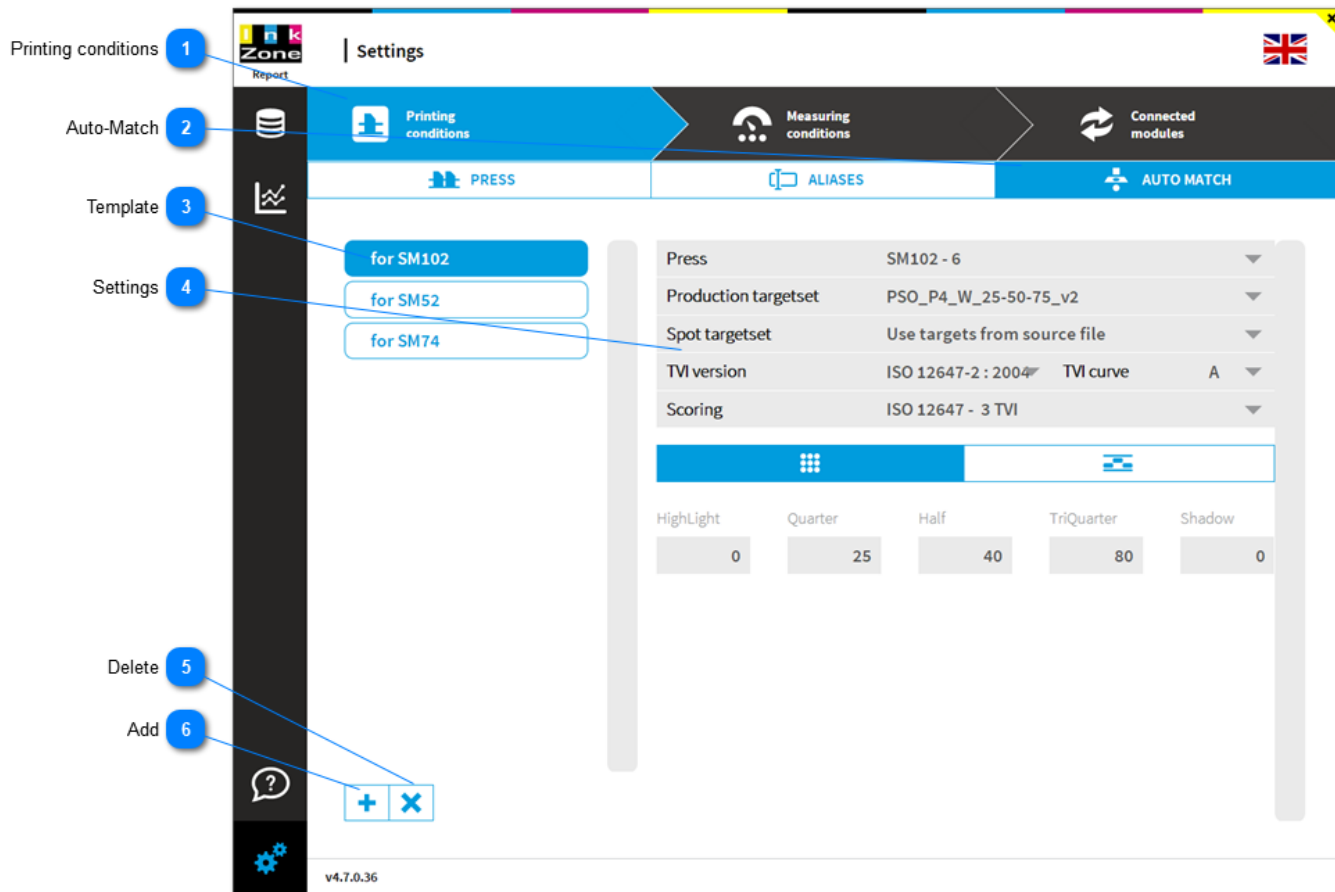
3

Add



Adds a new mapping entry.

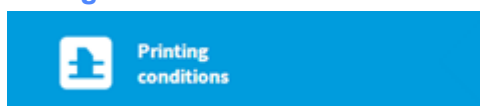
1.1.3. Auto-Match



Create an Auto-Match template with the setup for targetset, spot colour target handling, TVI definition and scoring parameters.

1

Printing conditions



Select Printing Conditions

2

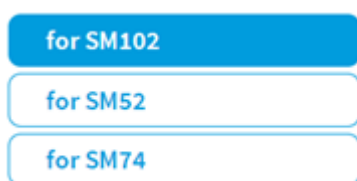
Auto-Match



Select Auto-Match. The Auto-Match template is applied to an input hotfolder, see here: [1.1.7. System Setup](#)

3

Template



List with all setups

4

Settings

Press	SM102 - 6	▼
Production targetset	PSO_P4_W_25-50-75_v2	▼
Spot targetset	Use targets from source file	▼
TVI version	ISO 12647-2 : 2004	TVI curve A ▼
Scoring	ISO 12647 - 3 TVI	▼

HighLight	Quarter	Half	TriQuarter	Shadow
0	25	40	80	0

These settings are used to process the SVF after being detected in the hotfolder. The settings are only used when the SVF import setup parameter do not match.

5

Delete



Remove an entry

6

Add



Add a new setup

1.1.4. Targetset & Print Tolerance Setup

10 Go to ISO Standards

Measuring conditions 1

Menu Targetset & Tolerances 2

Available Targetsets 3

Color entries 5

Selected Targetset 4

Export targetset 6

Import targetset 7

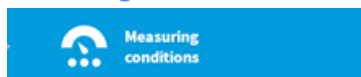
Delete targetset 8

Create new targetset 9

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



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](#)

1.1.4.1. Edit Color

12 Return to Scoring Setup

Targetset name 1

Color name 2 **Yellow** PSO_P2_B_25-50-75_v2

Lab target 3 L 87 - + a -6 - + b 90 - +

Target density with tolerance 4 Density (Y) -0.1 -0.05 1.25 0.05 0.1

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

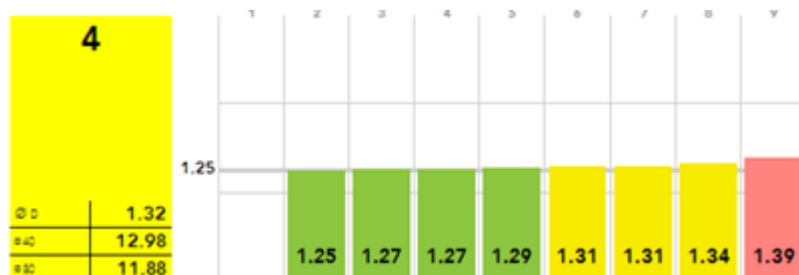
Target density with tolerance

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

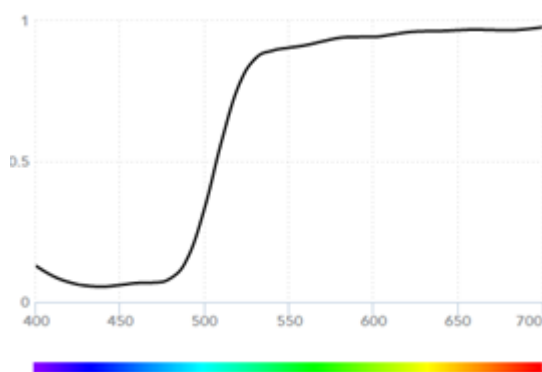
Density (Y)



Setup an individual density target for front and back side.

6

Spectral remission

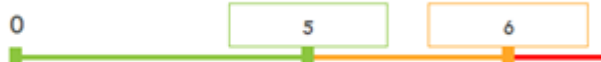


Spectral remission curve

7

DeltaE tolerance

ΔE



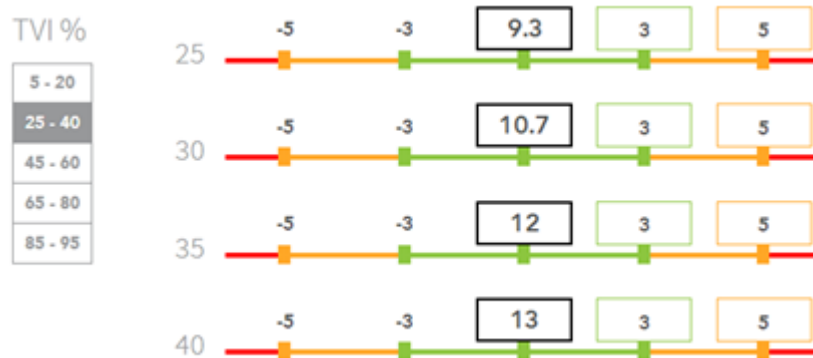
Color tolerance in DeltaE

With this setup the DeltaE is displayed as:

DeltaE < 6	red
DeltaE 5 - 6	yellow

Candidate	Votes
1	4.31
2	3.56
3	3.03
4	3.20
5	2.87
6	2.98
7	3.27
8	5.18
9	5.91
10	4.73
11	5.07
12	6.96

TVI values with tolerance



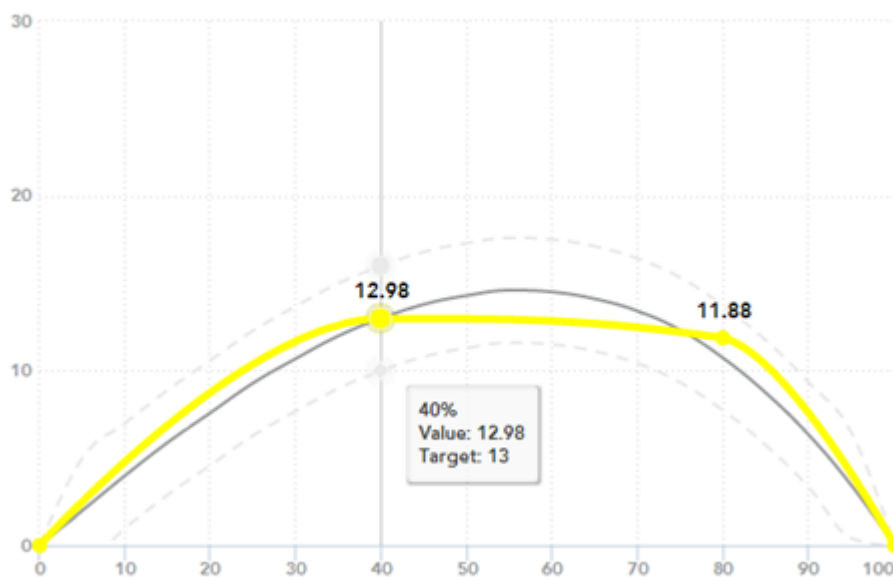
TVI 40% < 8 red

TVI 40% 8 - 10 yellow

TVI 40% 10 - 16 green

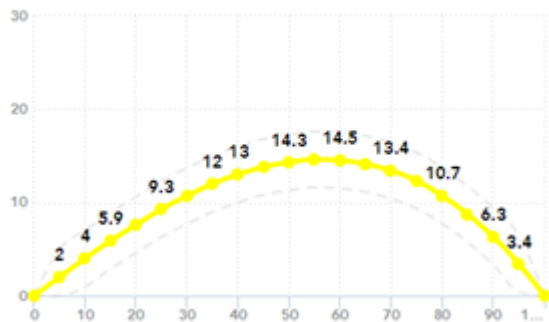
TVI 40% 16 - 18 yellow

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
---	---	---	---	---	---	--------

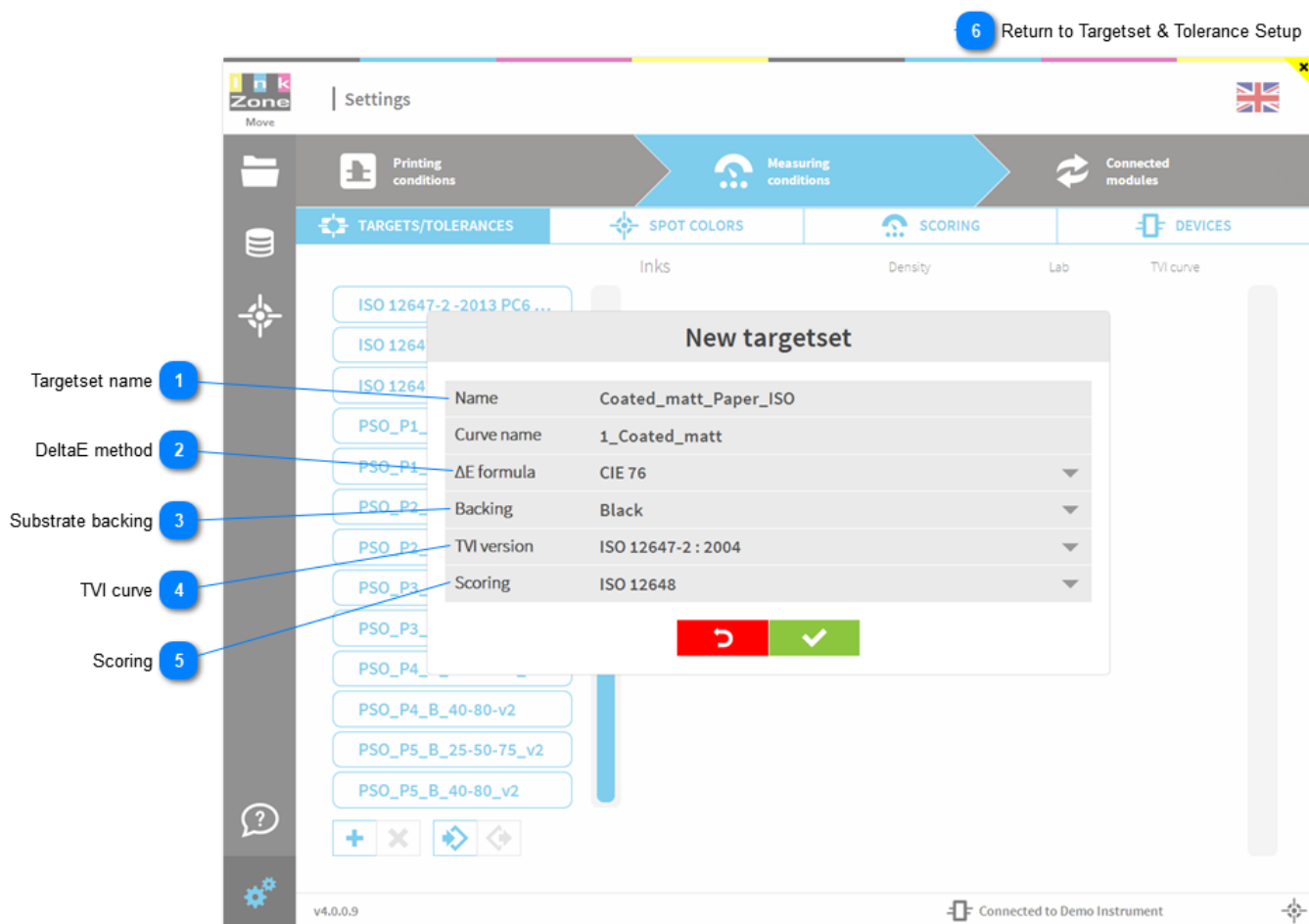
Select from a predefined TVI A to F curve or use a linear curve setup

11 Cancel / Store

Dismiss change / accept change

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

1.1.4.2. 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

DeltaE method

ΔE formula CIE 76

Select the DeltaE formula to be used.



3

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

Black

White

✓

4

TVI curve

TVI version ISO 12647-2 : 2004

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

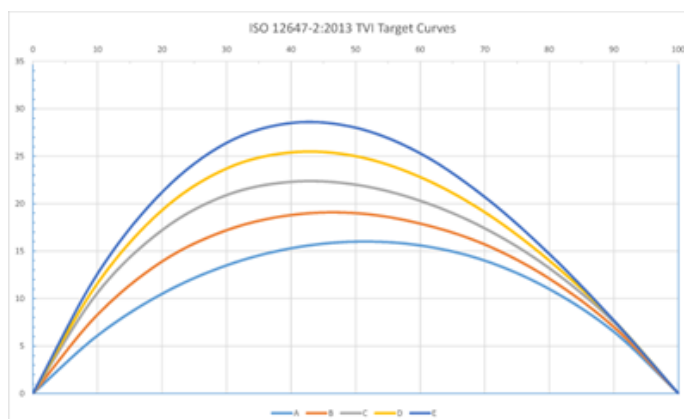
New targetset

Name	Coated_matt_Paper_ISO
Curve name	1_Coated_matt
ΔE formula	CIE 76
Backing	Black
TVI version	ISO 12647-2 : 2013

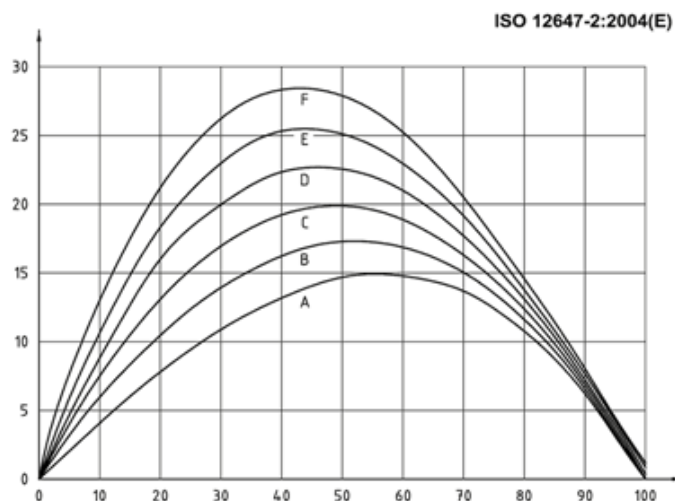
ISO 12647-2 : 2004

ISO 12647-2 : 2013

TVI 12647-2 2013



TVI 12647-2 2004



5

Scoring

Scoring

ISO 12648

Select the scoring set. See here:

[1.2.5. Scoring Setup](#)

New targetset

Name	Coated_matt_Paper_ISO
Curve name	1_Coated_matt
ΔE formula	CIE 76
Backing	Black
TVI version	ISO 12647-2 : 2013
Scoring	None

None

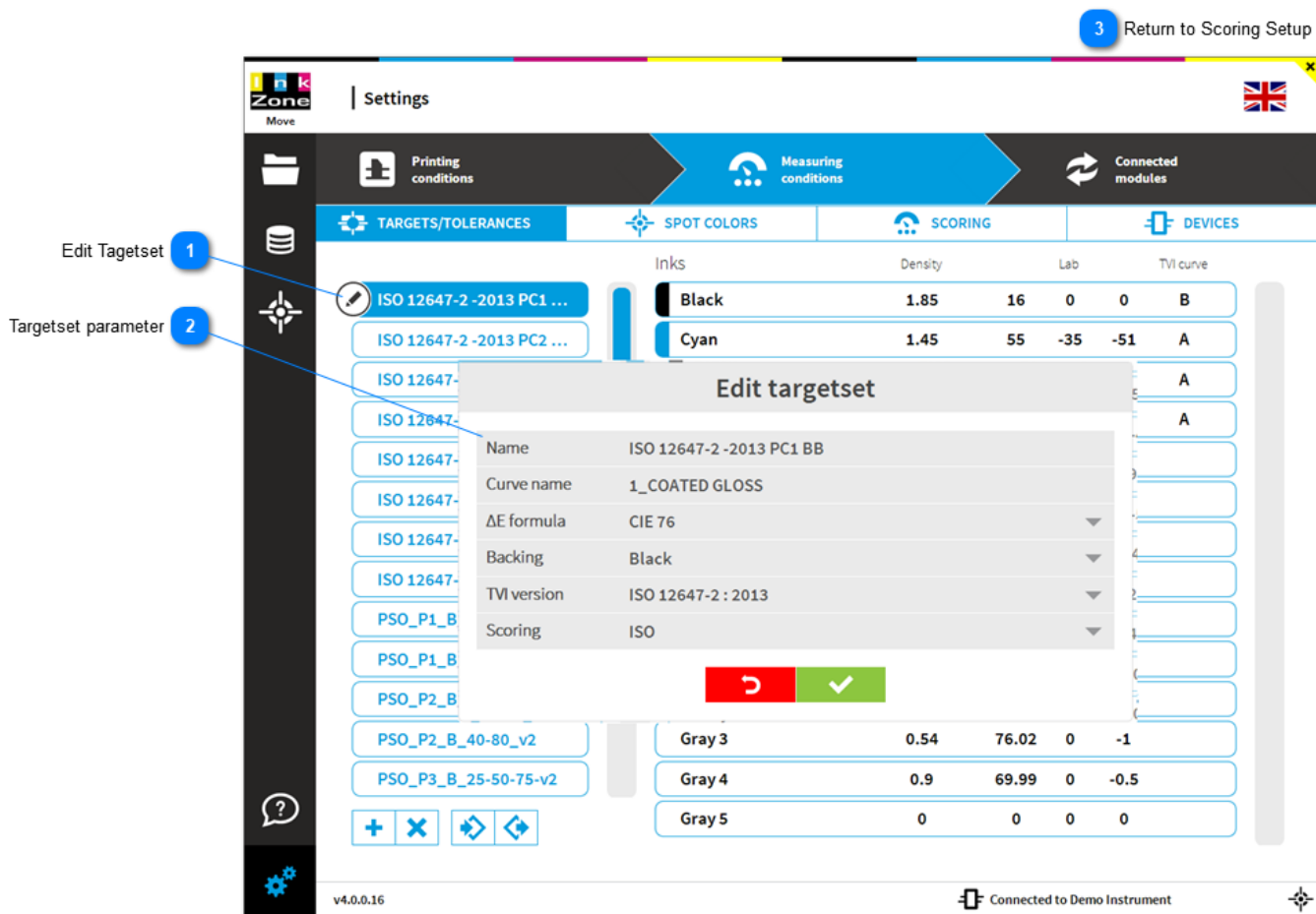
ISO 12648

6

Return to Targetset & Tolerance Setup

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

1.1.4.3. Edit Targetset



Edit Tagetset



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

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](#)

Return to Scoring Setup

1.2.6. Scoring Setup

1.1.4.4. Standards

1.1.4.4.1. ISO 12647-2:2013

[1.2.3.4.1.1. Paper Types](#)

[1.2.3.4.1.2. TVI Curves](#)

1.1.4.4.1.1. 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)

1.1.4.4.1.2. 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

1.1.5. Spotcolor Setup

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

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

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

1.1.5.1. 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

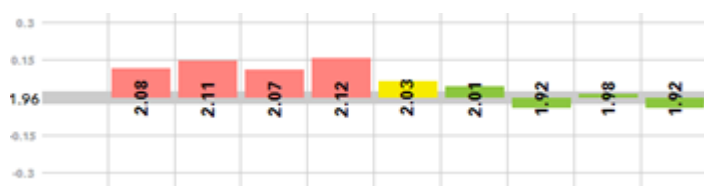
Target density with tolerance



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

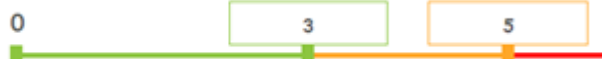


Setup an individual density target for front and back side.

7

DeltaE tolerance

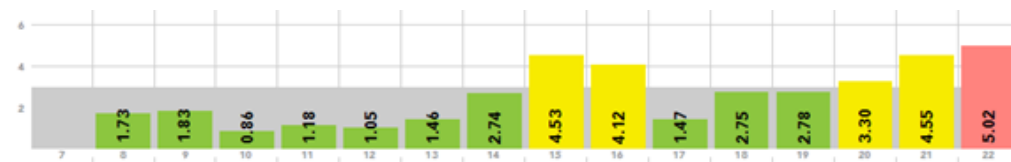
ΔE



Color tolerance in DeltaE

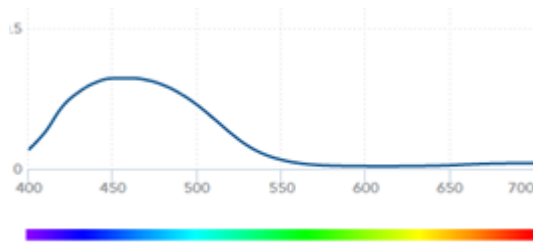
With this setup the DeltaE for a front and back measurement is displayed as:

0 - 3	green
3.01 - 5	yellow
> 5	red



8

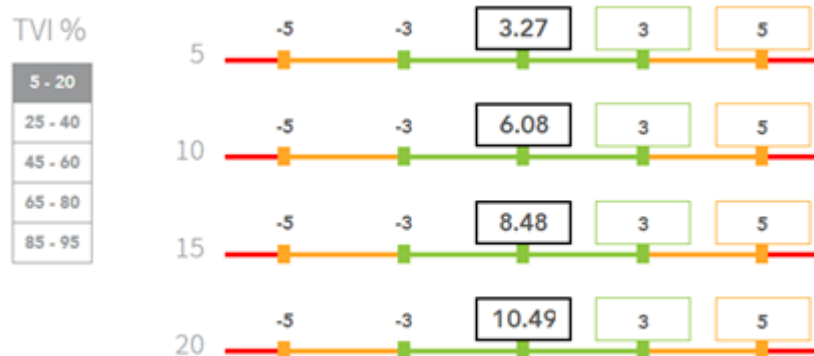
Spectral remission



Spectral remission curve

9

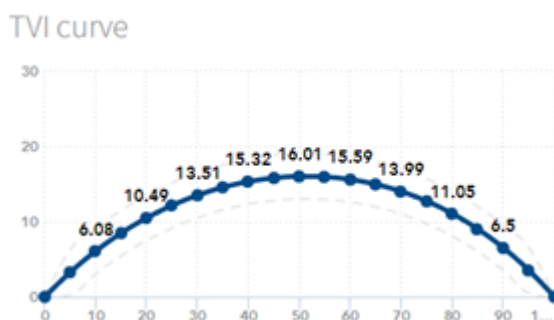
TVI values with tolerance



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

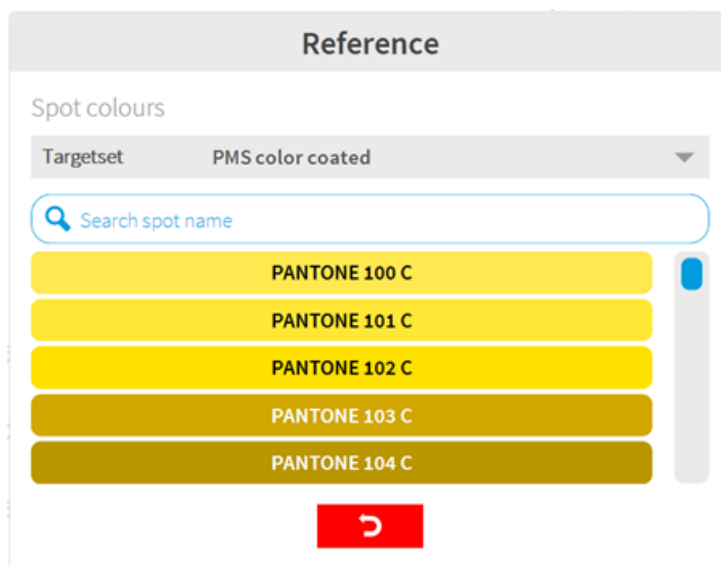
13

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



Only available with InkZoneMove

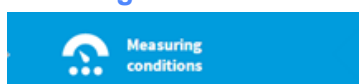
1.1.6. Scoring Setup

The screenshot shows the 'Settings' window of the InkZoneReport application, specifically the 'SCORING' tab. The interface is divided into several sections: 'Measuring conditions' (top left), 'Menu scoring' (top center), 'Scoring set' (left sidebar), 'Active' (left sidebar), 'Display' (left sidebar), 'Status' (left sidebar), 'Assessment' (left sidebar), 'Scoring type' (left sidebar), 'Weight on total' (left sidebar), 'Manage scoring sets' (bottom left), and 'Total scoring setup' (bottom center). The main area displays a list of scoring sets with columns for 'Enabled', 'Visible', 'Obligatory', 'Assessment', 'Scoring type', and 'Weight'. The 'Total' row shows a weight of 100%.

Scoring Set	Enabled	Visible	Obligatory	Assessment	Scoring type	Weight
ISO 12647 - 2 TVI	Yes	Yes	Yes	ΔE	5	30%
ISO 12647 - 3 TVI	Yes	Yes	Yes	ΔE	4	6%
1/4	No	No	No	1/4	2	0%
1/2	Yes	Yes	Yes	1/2	3	18%
3/4	Yes	Yes	Yes	3/4	3	18%
1/4	Yes	Yes	Yes	1/4	4	6%
ΔE	Yes	Yes	Yes	ΔE	3	14%
ΔE	Yes	Yes	Yes	ΔE	2	3%
ab	Yes	No	No	ab	3	5%
Total					68	100%

1

Measuring conditions

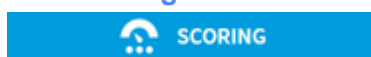


Opens the menu Measuring Conditions with menu entry

- 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



Only available in InkZoneMove

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

The primary color scoring is set like:

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

Now, let's presume a sample sheet measurement shows:

Green	Yellow	Red
41 Patches	14 Patches	22 Patches

Score

Green	Yellow	Red	
41 x 4 = 164 points	14 x 3 = 42 points	22 x 0 = 0 points	Total
52,5%	13,5%	0%	52,5% + 13,5% = 66%

See this job here:

Assessment:

Would all patches be green then the score is 100 percent. This looks like:

Possible max score = 78 x 4 points = 312 points 100%

For the above calculation:

Patches (% from total patches)	Scoring	Result	Result in %
41 green patches (53 %)	= 41 x 4 points	= 164 points	52,5 %
14 yellow patches (18 %)	= 14 x 3 points	= 42 points	13.5 %
23 red patches (29 %)	= 23 x 0 points	= 0 points	0 %
Total for 78 patches (100 %)		= 206 points	66 %

8

Scoring type

ΔE 

ΔE 

1/4 

Scoring criteria such as primary solids, spot colours, TVI, see 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

30%

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



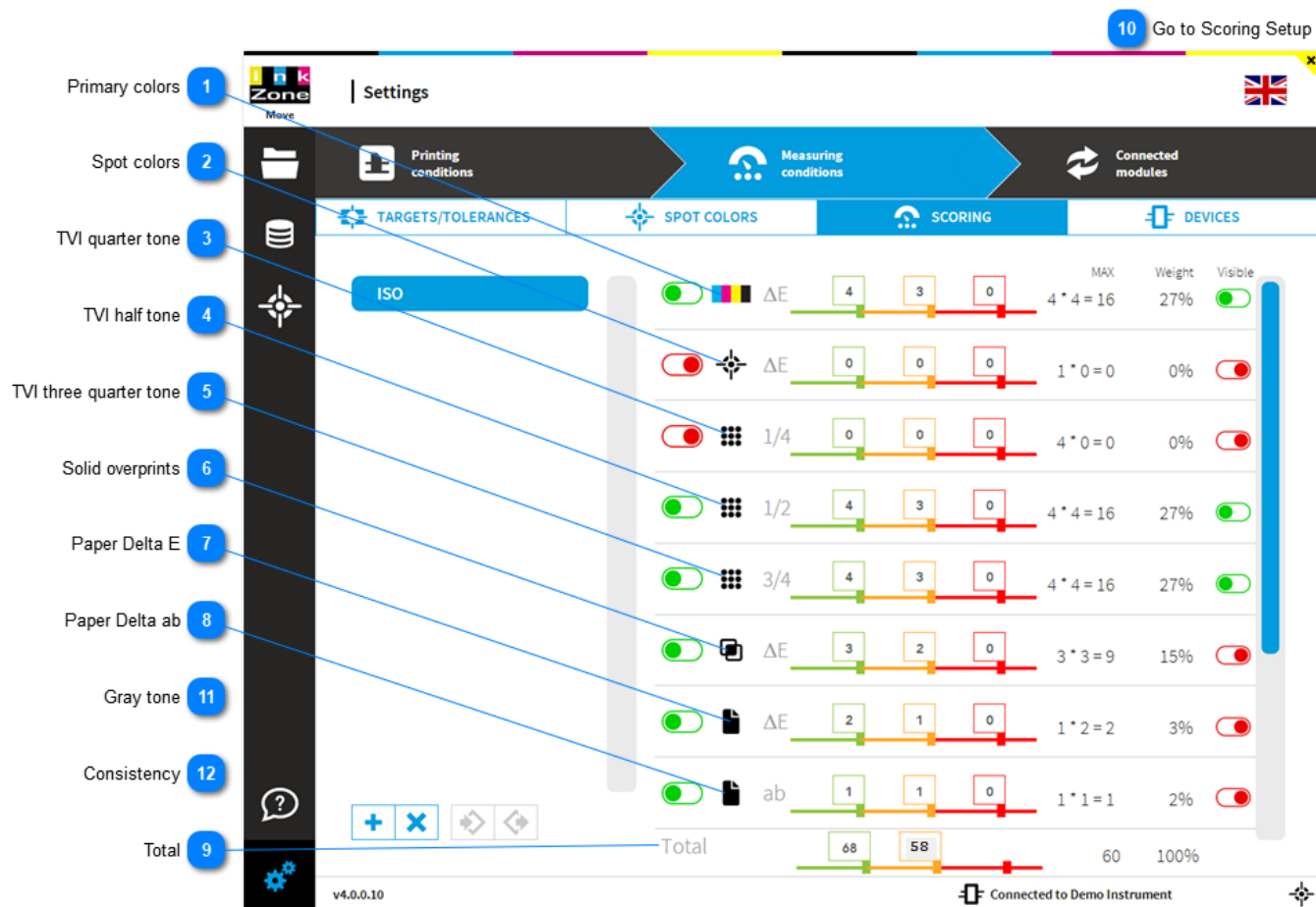
Total value shows up in the measurement view in a colored circle on the top right corner.

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 68%

1.1.6.1. Scoring Criteria



1 Primary colors



Scoring criteria for primary colors C M Y and K

2 Spot colors



Scoring criteria for spot colors

3 TVI quarter tone



Scoring criteria for tone value increase, quarter tone

4 TVI half tone



Scoring criteria for tone value increase, half tone

5

TVI three quarter tone



Scoring criteria for tone value increase, three quarter tone

6

Solid overprints



Scoring criteria for solid overprints CM, CY and MY

7

Paper Delta E



Scoring criteria for paper, DeltaE

8

Paper Delta ab



Scoring criteria for paper, Delta ab

9

Total



Score the total points.

10

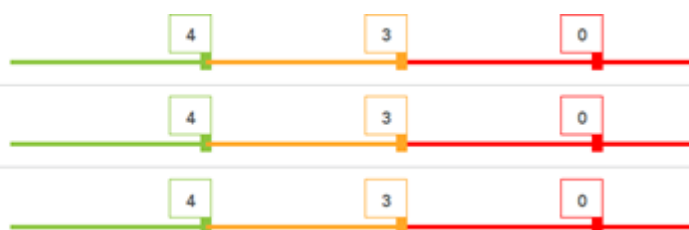
Go to Scoring Setup

[1.2.6 Scoring Setup](#)

11 Gray tone



Score on gray tones.



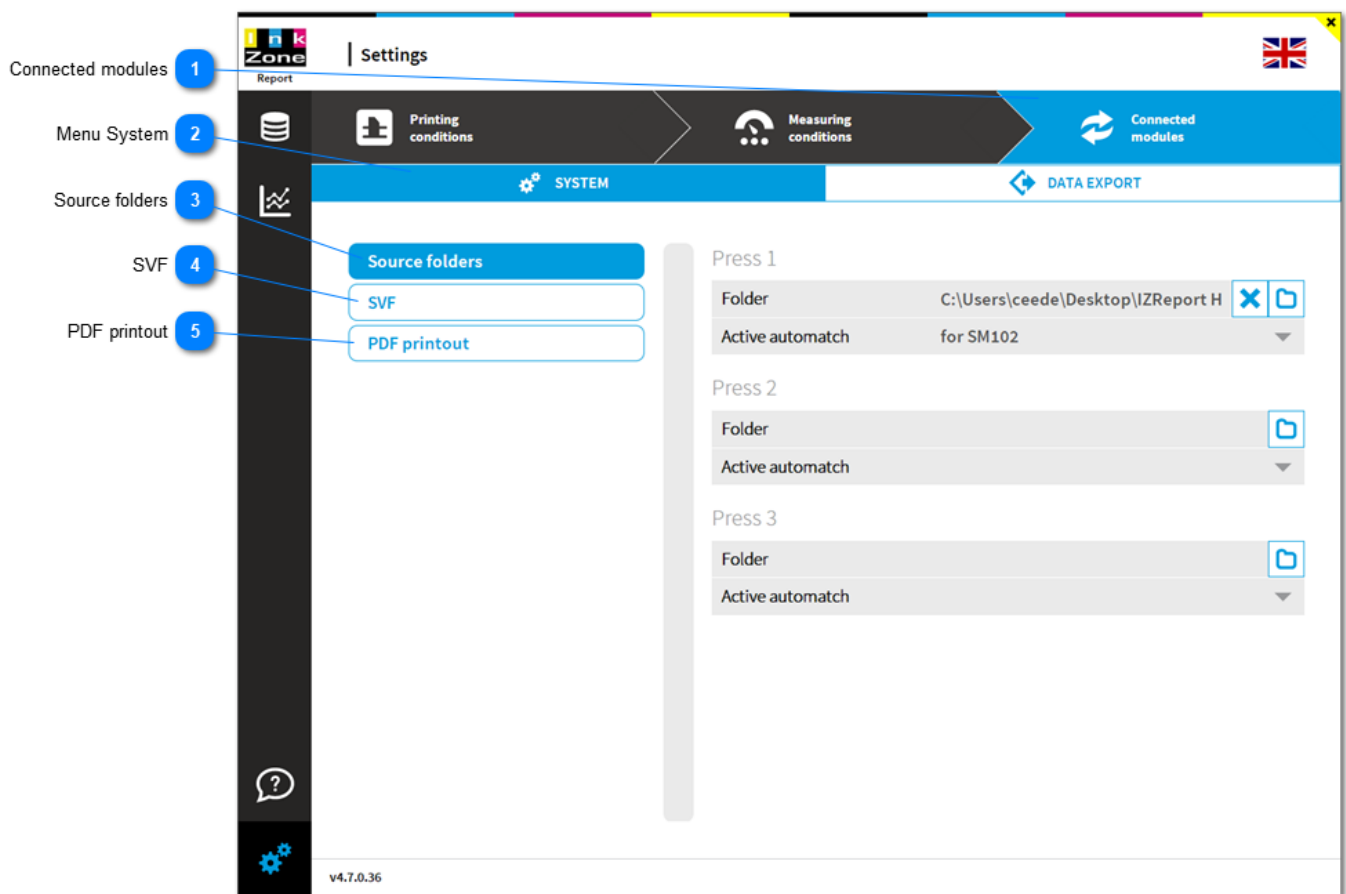
12 Consistency



Score on density consistency over the sheet width

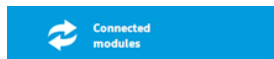


1.1.7. System Setup



1

Connected modules



Opens the menu Connected modules with menu entry

- a) System
- b) Data-Export

2

Menu System



Opens the submenu System

3



Source folders




Press 1

Folder	C:\Users\ceede\Desktop\IZR HF1	 
Active automatch	for SM102	▼

Press 2

Folder	C:\Users\ceede\Desktop\IZR HF2	 
Active automatch	for SM74	▼

Press 3

Folder	C:\Users\ceede\Desktop\IZRHF3	 
Active automatch	for SM52	▼

Defines a hotfolder for incoming SVF files. All SVFs are link the setup of an Auto-Match template and processed accordingly.

See Auto-Match setup here: [1.1.3. Auto-Match](#)

4

SVF

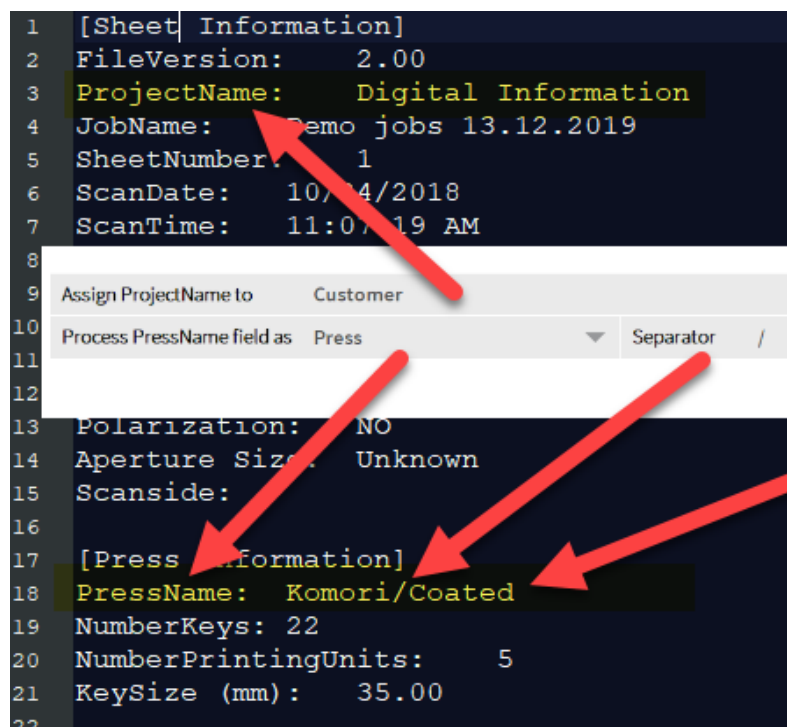
SVF

This settings has priority of the selected targetset in the Source folder setup.

```

1 [Sheet Information]
2 FileVersion: 2.00
3 ProjectName: Digital Information
4 JobName: Demo jobs 13.12.2019
5 SheetNumber: 1
6 ScanDate: 10/14/2018
7 ScanTime: 11:07:19 AM
8
9 Assign ProjectName to Customer
10 Process PressName field as Press Separator / Second value Targetset
11
12
13 Polarization: NO
14 Aperture Size: Unknown
15 Scanside:
16
17 [Press Information]
18 PressName: Komori/Coated
19 NumberKeys: 22
20 NumberPrintingUnits: 5
21 KeySize (mm): 35.00
22

```



The SVF tags link to an InkZoneReport parameter customer, press and targetset:

- assign the **Project** name to a customer name or to none
- Process **PressName** value in two parts:
 - **First** part to TargetSet or Press or Customer
 - **Second** part to TargetSet or Press or Customer

- Define a the valid **separator** between PressName and TargetSet

5

PDF printout**PDF printout****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.

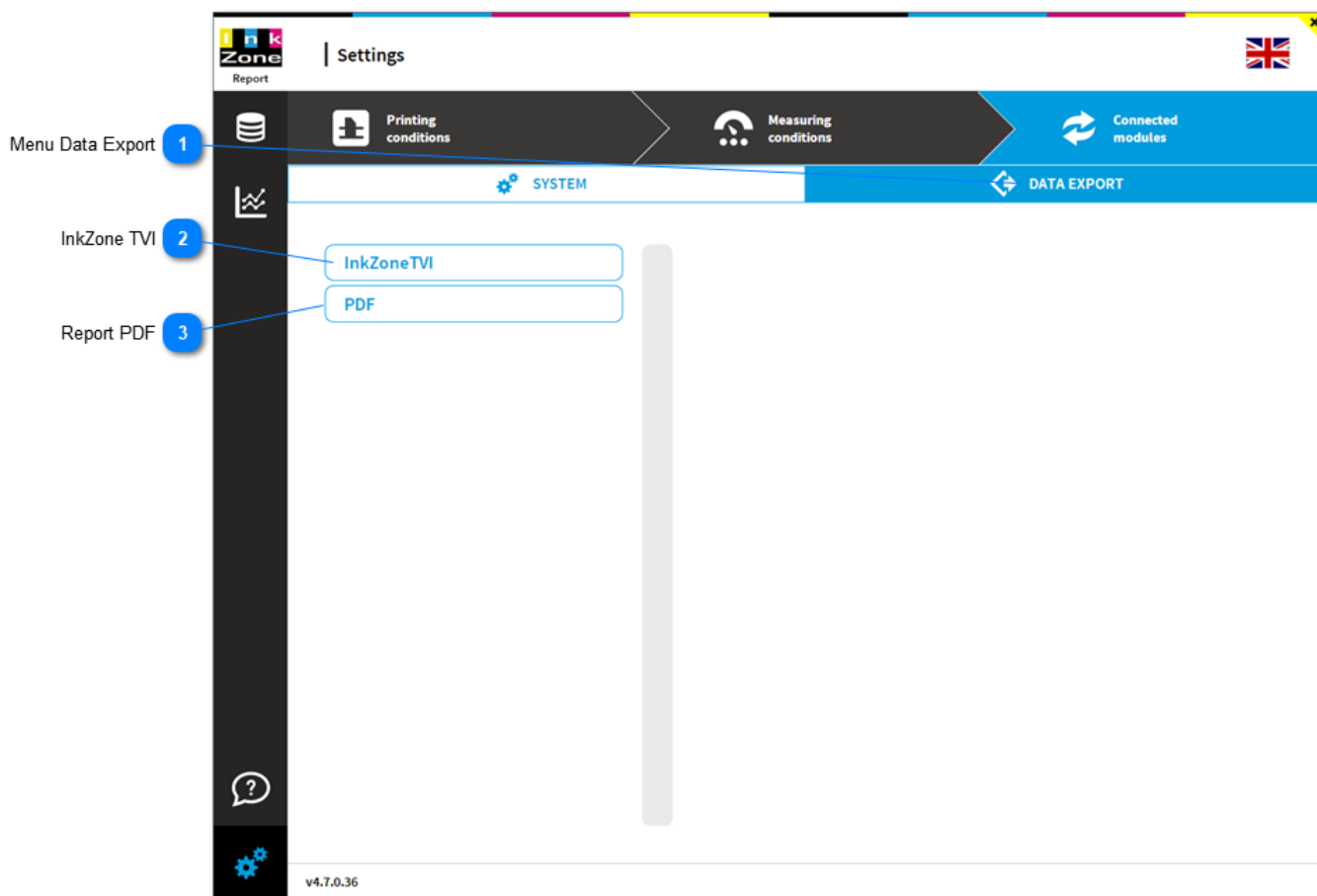
Setup mail server SMTP host address and port. Define the e-mail sender's address.

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		

1.1.8. Data Export Setup



1

Menu Data Export

DATA EXPORT

Sub menu Data Export

2

InkZone TVI

InkZoneTVI

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

3

Report PDF

PDF

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

1.1.8.1. Export to InkZoneTVI

Configure the export for InkZoneTVI. Based on the exported data, InkZoneTVI creates a compensation curve for the CTP workflow RIP. The exported data is based on job runs.

7 Go to Data Export Setup

Export setups 1

Expand rule 2

Delete rule 3

Run rule once 4

Add rule 5

6 Go to Rule Setup

1

Export setups

Export schedule

Press	▼	Targetset	▼	▲
Enabled				⛔
Run every	7	–	+	days ▼
Skip MakeReady measurements				⚙️
ΔE tolerance	3	–	+	
Density tolerance ±	0.1	–	+	
Measurements required for valid export	10	–	+	
🏃 RUN NOW				

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

Add rule



Add a new rule

6

Go to Rule Setup

[1.2.8.6.1. Export rules IZTVI](#)

7

Go to Data Export Setup

[1.2.8. Data Export Setup](#)

1.1.8.1.1. Export rules InkZoneTVI

Setup the export rules for CTP plate compensation curves.

13 Return to Export rules InkZoneTVI

Export schedule

Export rule collapsed 1

Press 2 Heidelberg CD1(Targetset Carton_v2018 12 Export rule expanded

Press 2 Heidelberg CD1(Targetset PSO_Coated_v2

Enabled 11 Activate / Delete

Targetset 3 Run every 7 - + days 10 Activate filter set

Skip MakeReady measurements 10

Schedule 4

ΔE tolerance 6 - + Density tolerance ± 0.5 - +

Tolerances 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 9 Measurements

Add 6 +

Job list 7

8 Run

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

ΔE 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 export 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

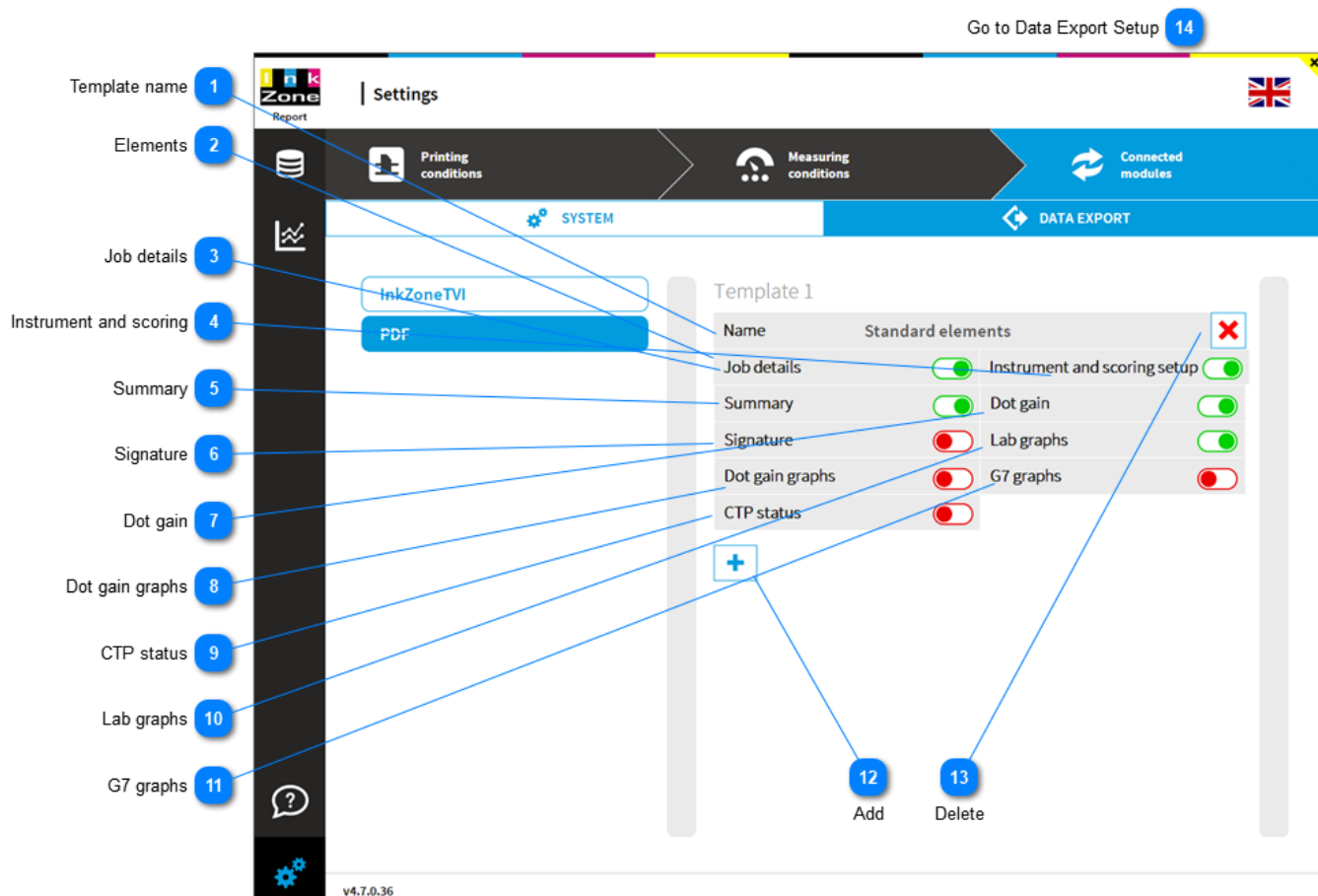
Press	Heidelberg CD10	▼	Targetset	PSO_Coated_v2	▼	▲		
Enabled						<input checked="" type="checkbox"/>	✖	
Run every	7	–	+	days	▼			
Skip MakeReady measurements						<input checked="" type="checkbox"/>		
ΔE tolerance	6	–	+	Density tolerance ±	0.5	–	+	
Measurements required for valid export						5	–	+

Export rule expanded view

13 Return to Export rules InkZoneTVI[1.2.8.1. Export to InkZoneTVI](#)

1.1.8.2. 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 elements

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 checked="" type="checkbox"/>
Dot gain graphs	<input 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	<input checked="" type="checkbox"/>
-------------	-------------------------------------

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

	1 Print / Target [L a b]			2 D	3 ΔE / Tol	4 ΔE	5
Black	16.0 / 16.0	0.8 / 0.0	1.9 / 0.0	1.80	5.4 / 5	77%	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%	50%
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%	

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

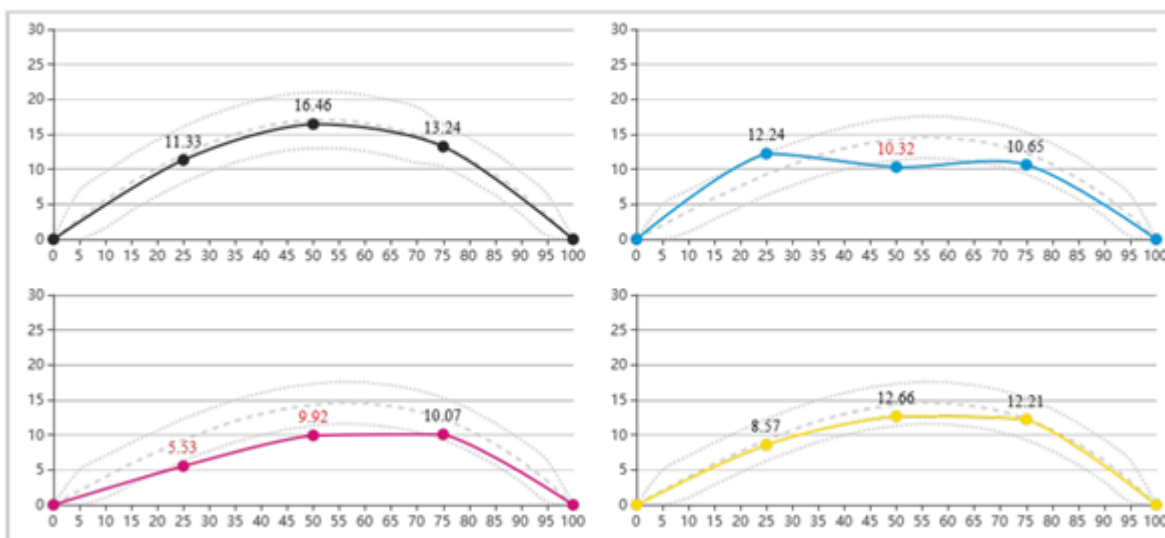
Dot gain graphs

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

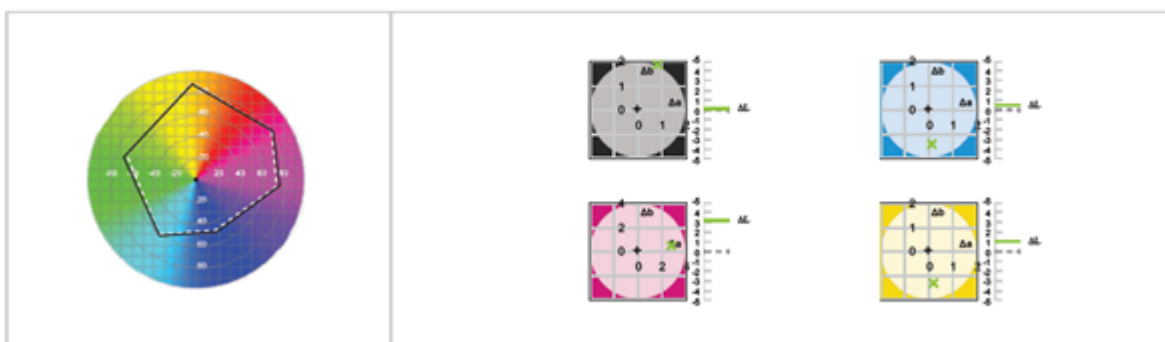
Lab graphs


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.

13 Delete

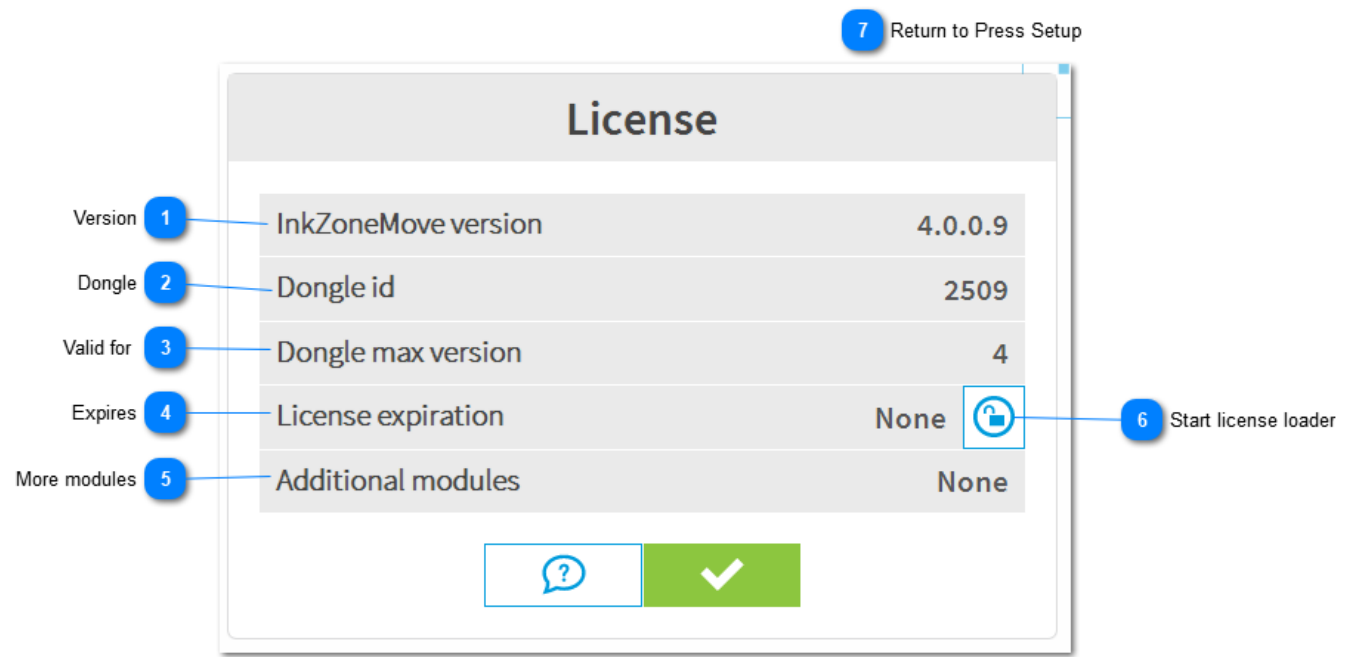


Delete the PDF template.

14 Go to Data Export Setup

[1.2.8. Data Export Setup](#)

1.1.9. 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](#)

1.1.10. License Loader



1

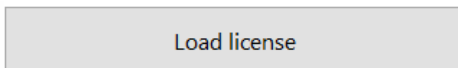
Refresh dongle information



Refresh the shown dongle information

2

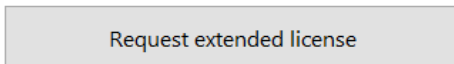
Load License



Load a license file to change the dongle status

3

License request



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

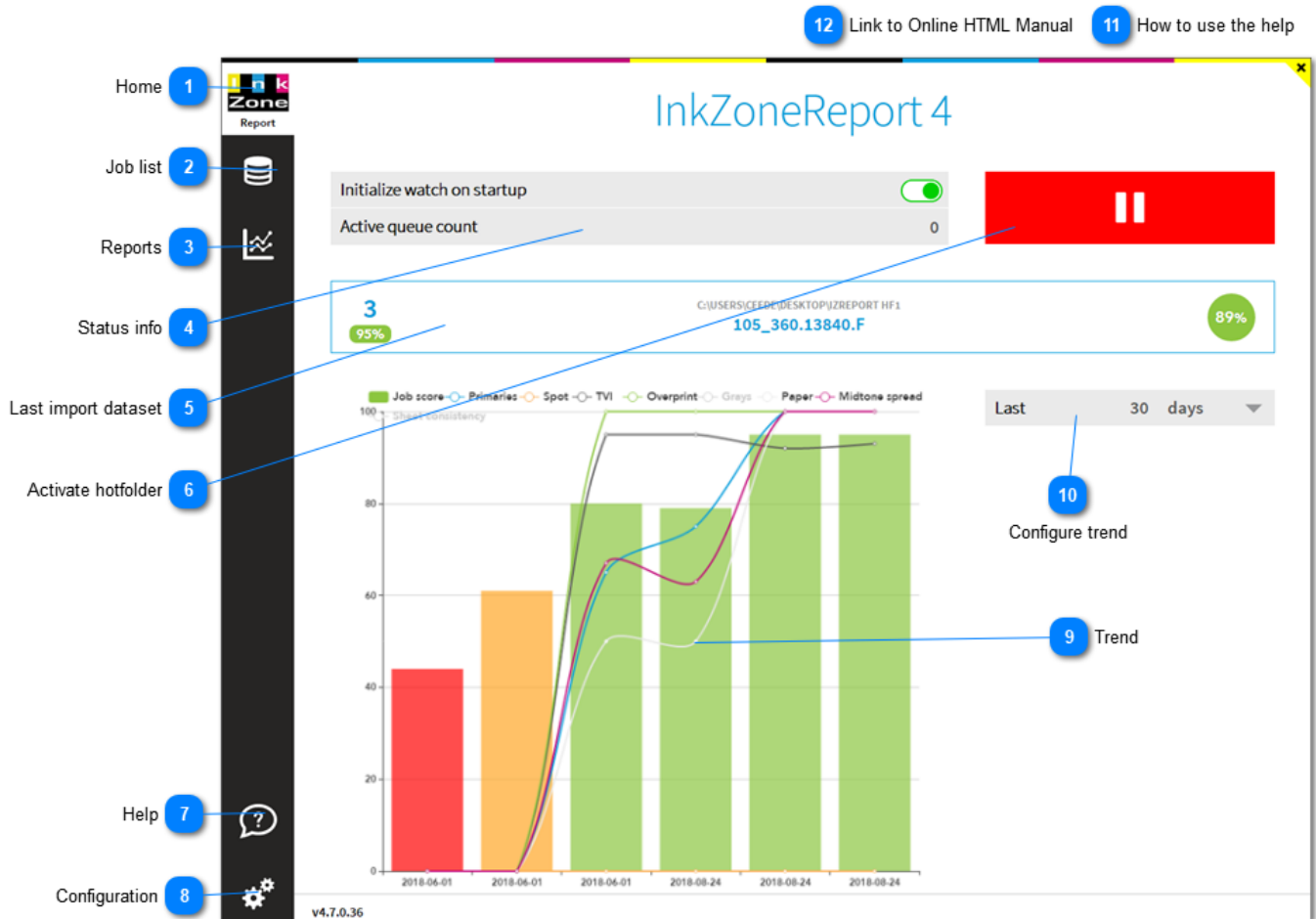
4

Return to License Information

[1.2.9. License Information](#)

1.2. Jobs

1.2.1. Home



1

Home



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

2

Job list



Changes to job list

3

Reports



Displays the report from currently active job, see here [1.4.2.3. Report summary](#)

4

Status info

Initialize watch on startup
☒

Active queue count
0

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

5 Last import dataset

3
95%

C:\USERS\CEEDE\DESKTOP\IZREPORT HF1
105_360.13840.F

89%

Start a new job from here

6 Activate hotfolder



Opens current job in measurement view

7 Help



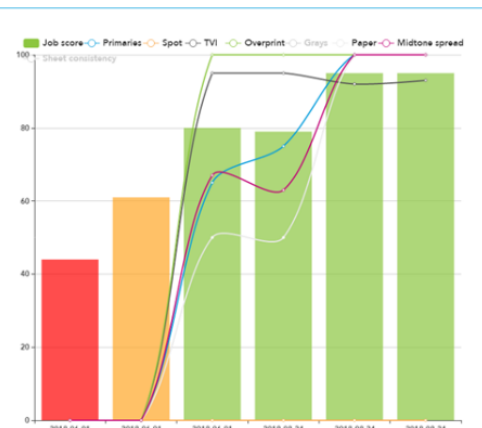
Context sensitive help button. Brings up a help page from the currently active IZM4 page

8 Configuration



Change to the software configuration page

9 Trend



Trend graphs of the imported jobs. Vertical bars indicate job score. The trend lines indicate score on primary colours, spot colours, TVI and mid-tone spread, overprints , greys and paper white.

10 Configure trend

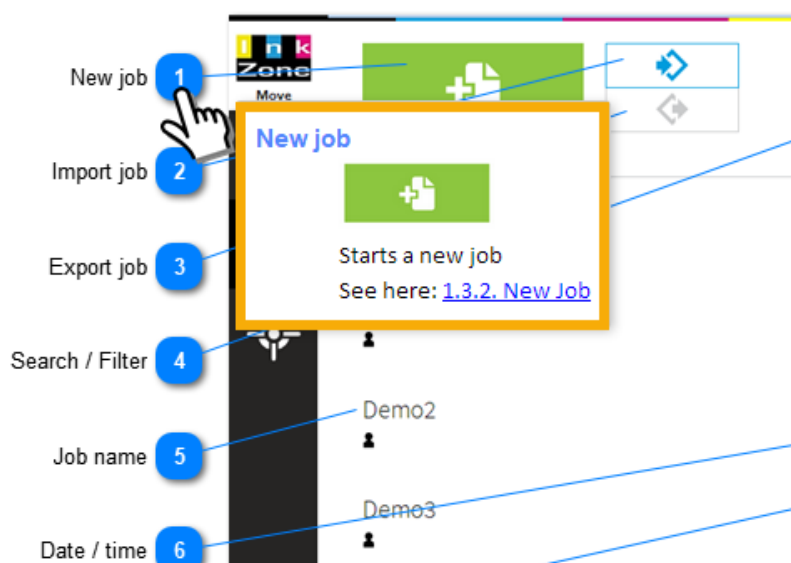
Last
30 days
▼

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

11

How to use the help

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



12

Link to Online HTML Manual

[Click and open the online help document](#)

1.2.2. Job List

The screenshot shows the 'Job List' interface of the InkZoneReport application. It features a table of jobs with columns for Job name, Press, Date, and Scoring. The interface includes a search bar, filter buttons, and a sidebar with icons for Import, Export, and Search/Filter. Numbered callouts (1-10) point to specific UI elements:

- 1: Import job icon (database symbol)
- 2: Export job icon (chart symbol)
- 3: Search / Filter icon (magnifying glass)
- 4: Job name column header
- 5: Date / time column header
- 6: Score column header
- 7: Select job icon (cross symbol)
- 8: Open job icon (document symbol)
- 9: Go to Delete job button
- 10: Go to Export job button

Job name	Press	Date	Scoring
COUCHE 105_360.13840.F	SM102	5/11/18 8:37 AM	87%
78549	SM102 - 8	10/24/17 11:07 AM	74%
7777777	Komori	10/24/18 11:07 AM	74%
17-2548		5/17/19 5:12 PM	27%
105_360.13840.F	SM102	5/11/18 8:37 AM	89%

1 Import job



Import job/s

2 Export job



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

3 Search / Filter

The search bar contains the text "Search job". Below it, there are buttons for "FILTERS" and "SAVED", and a "0 filters active" indicator.

Enter a part of the job name to filter the job list
Setup filter-sets for reoccurring searches.

4 Job name



7777777
October

Komori

10/24/18
11:07 AM

74%



Job name with date and job score

5

Date / time

10/24/18
11:07 AM

Printing time and date

6

Score

74%

Production score

7

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](#)

8

Open job



Open the job in measurement view

9

Go to Delete job

[1.3.3.2. Delete Job](#)

10

Go to Export job

[1.3.3.2. Delete Job](#)

1.2.2.1. Export Job

3 Return to Job List

Search job

0 filters active

FILTERS SAVED

DELETED 1 JOBS

Job name	Press	Date		
COUCHE 105_360.13840.F	SM102	5/11/18 8:37 AM	87%	X
78549	SM102 - 8	10/24/17 11:07 AM	74%	X
7777777	Komori	10/24/18 11:07 AM	74%	X
17-2548		5/17/19 5:12 PM	27%	X
105_360.13840.F	SM102	5/11/18 8:37 AM	89%	X

Export 2

Select 1

v4.7.0.36

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](#)

1.2.2.2. Delete Job

The screenshot shows the InkZoneReport interface with a table of jobs. The table has columns for Job name, Press, Date, and a percentage. Three jobs are selected, indicated by red 'X' icons. A red button labeled 'DELETE 3 JOBS' is visible. A sidebar on the left contains icons for 'Delete' (2) and 'Select' (1). A top right button labeled 'Return to Job List' (3) is also present.

Job name	Press	Date	Percentage
COUCHE 105_360.13840.F	SM102	5/11/18 8:37 AM	87%
78549	SM102 - B	10/24/17 11:07 AM	74%
7777777	Komori	10/24/18 11:07 AM	74%
17-2548		5/17/19 5:12 PM	27%
105_360.13840.F	SM102	5/11/18 8:37 AM	89%

1

Select



First, select the jobs from the grey cross icon. For all selected jobs the icons is red.

2

Delete

DELETE 3 JOBS

Second, press the delete button and confirm the action.

3

Return to Job List

[1.3.3. Job List](#)

1.3. Job Report

InkZone Report qualifies print jobs with a defined print standard or print reference. It processes X-Rite SVF data, Scan.XML, or JDF data.

1.3.1. Setup

InkZone Report uses target and scoring sets for the color assessments. For the configuration of IZReport, it's important to understand targetset: [1.2.4.3. Edit Targetset](#) and scoring setup: [1.2.6. Scoring Setup](#)

1.3.2. 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](#)
- [PDF sample report](#)

1.3.2.1. Job List

8 Go to Report Views

Job list

Job info

Start date / time

Total score

Open in IZMove

Show report

Select job

Job name	Date	Scoring
Cover_Illu_12398 Rexton	23/08/17 14:55	95%
08 AGOSTO_1A_CMYK	09/08/17 10:56	72%
test scan 1 to 6 nr2	07/06/17 15:46	32%
test scan 1 to 6	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	07/04/17 10:21	43%
Photoset 3	20/02/17 07:42	66%
SVE test export	02/02/17	

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Connected to Demo Instrument

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

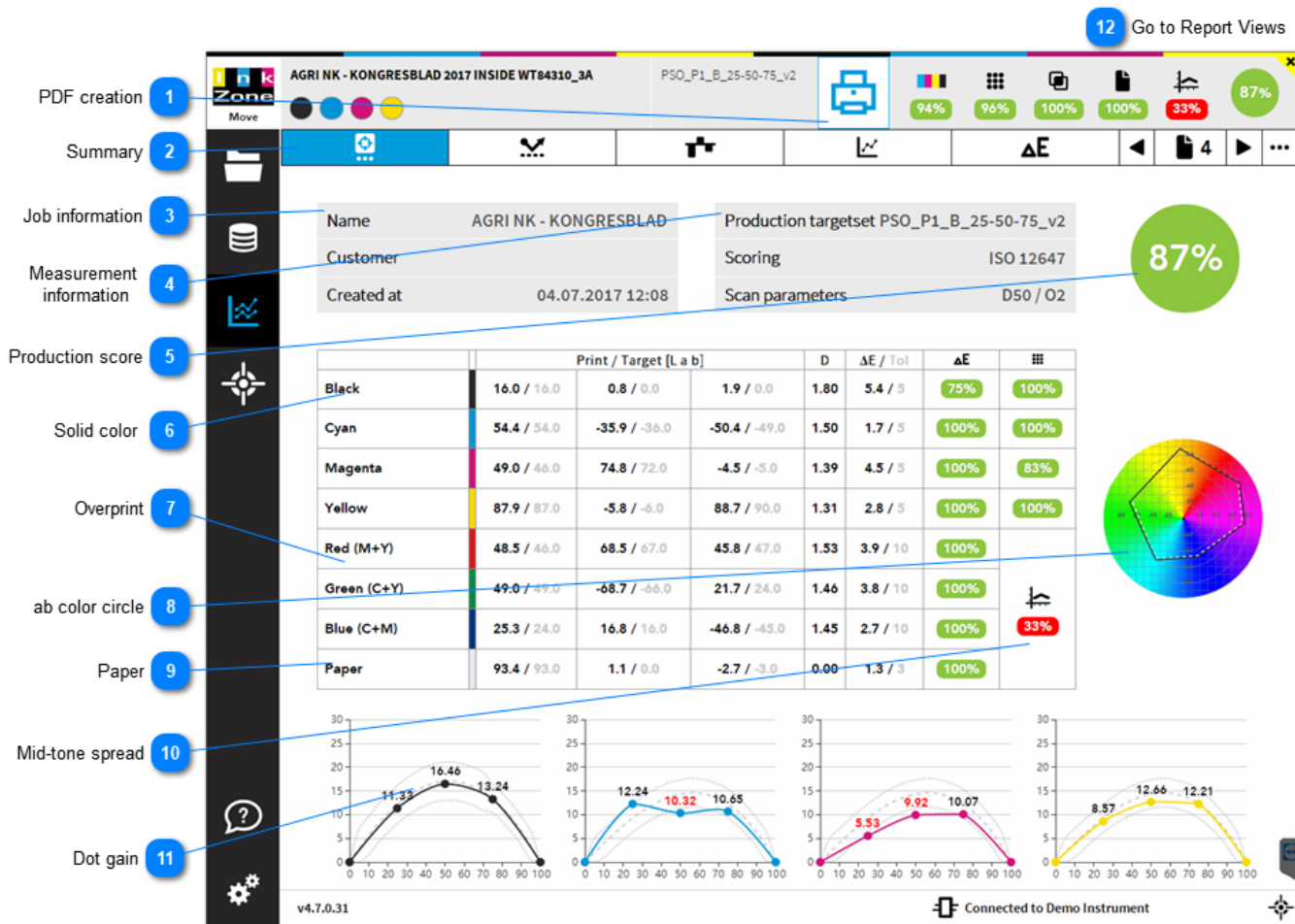
Select a job for export or removal.

8

Go to Report Views

[1.4.2. Views](#)

1.3.2.2. 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 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

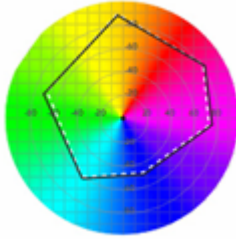
Overprint

Red (M+Y)	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

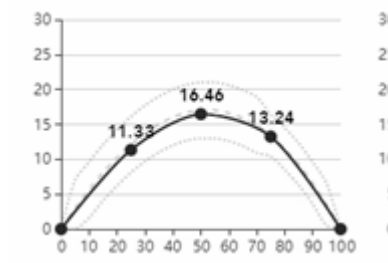
Mid-tone spread



Score on CMY mid-tone spread

11

Dot gain



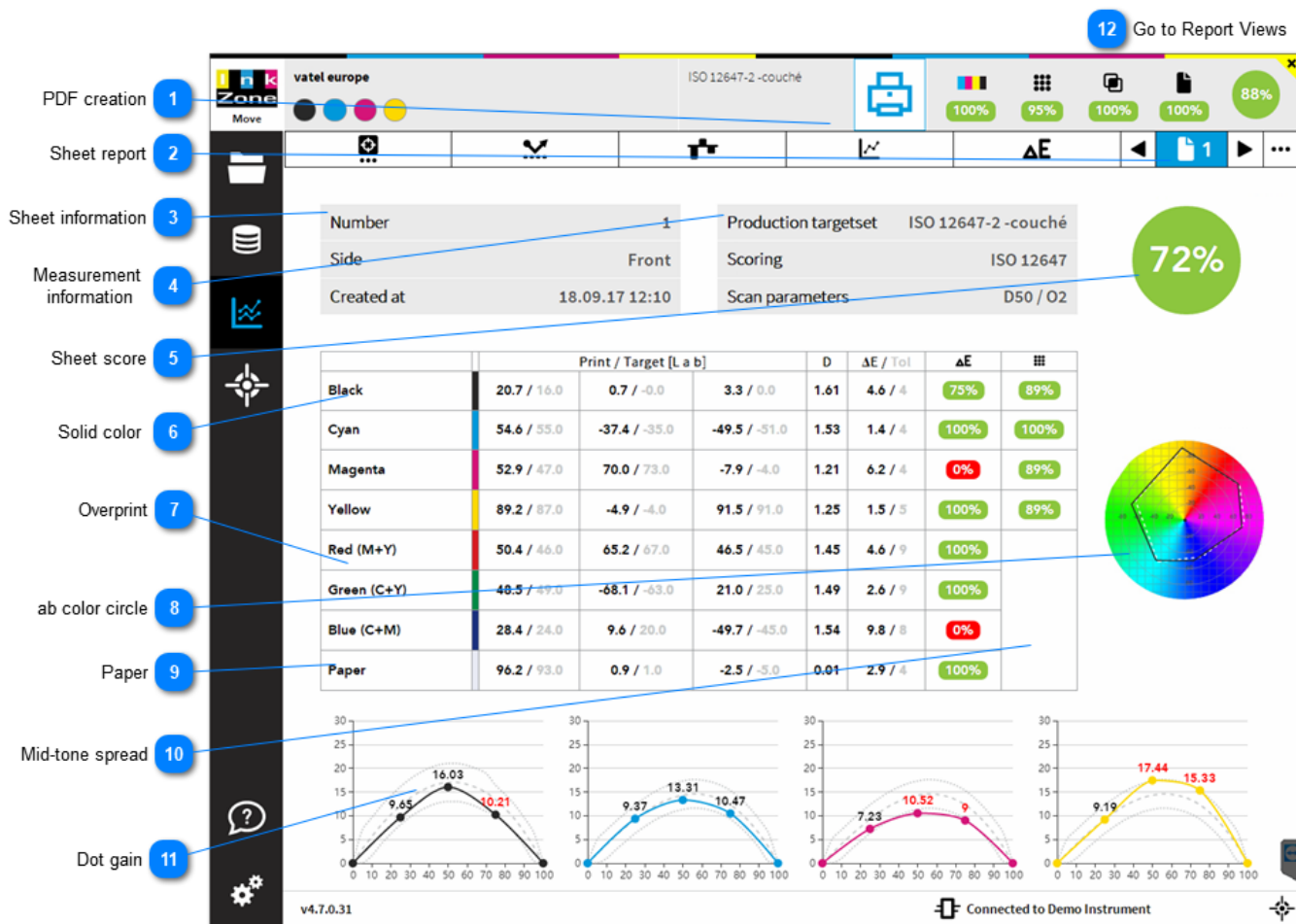
Tone value increase cure with print result and tolerance area.

12

Go to Report Views

[1.4.2. Views](#)

1.3.2.3. 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%	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

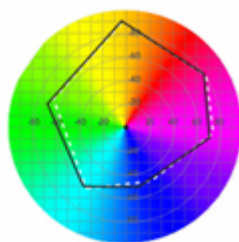
Overprint

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

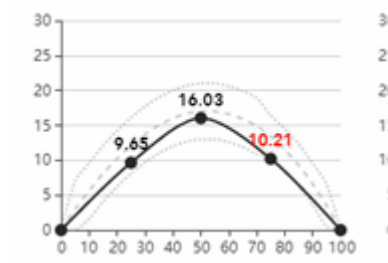
Mid-tone spread



Score on CMY mid-tone spread

11

Dot gain



Tone value increase curve with print result and tolerance area.

12

Go to Report Views

[1.4.2. Views](#)

1.3.2.4. 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

Sheet number	Time	MakeReady	Color 1	Color 2	Color 3	Color 4	Score
87	10:33	On	94%	97%	100%	100%	97%
86	10:32	Off	94%	91%	100%	100%	94%
85	10:30	Off	94%	91%	100%	100%	94%
84	10:30	Off	94%	91%	100%	100%	94%
83	10:28	Off	94%	81%	100%	100%	89%
82	10:23	Off	94%	84%	100%	100%	90%
81	10:21	Off	94%	81%	100%	100%	89%

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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

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" .

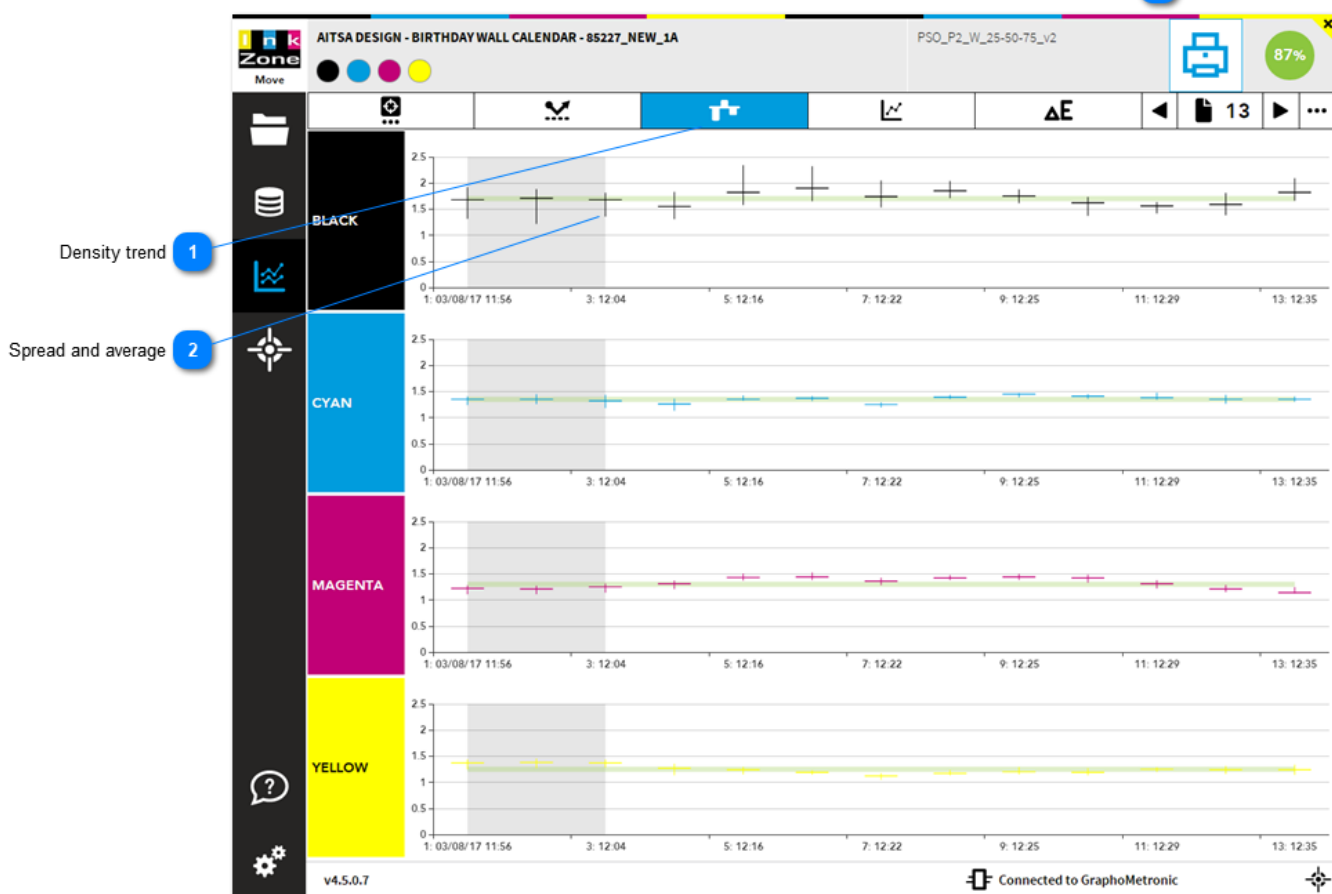
9 Export to IZTVI

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.

1.3.2.5. Trend on Density

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

3 Go to Report View



1

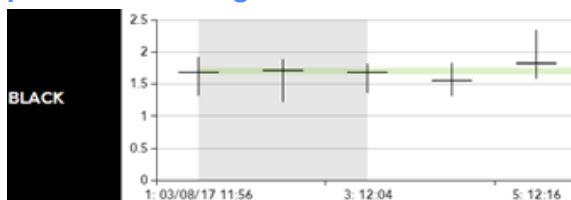
Density trend



Access density trend

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](#)

1.3.2.6. 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

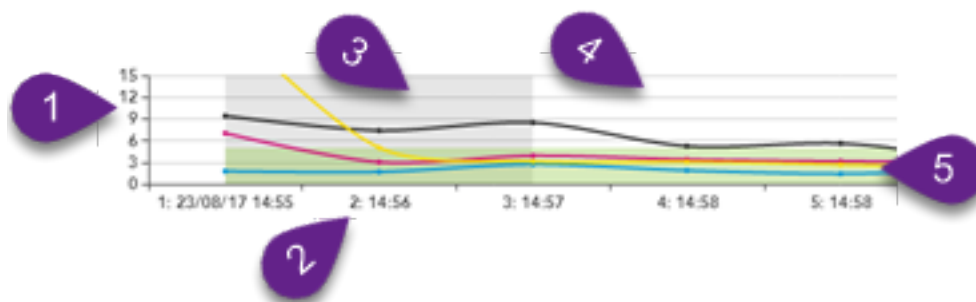
2 Primary, Secondary colours



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.

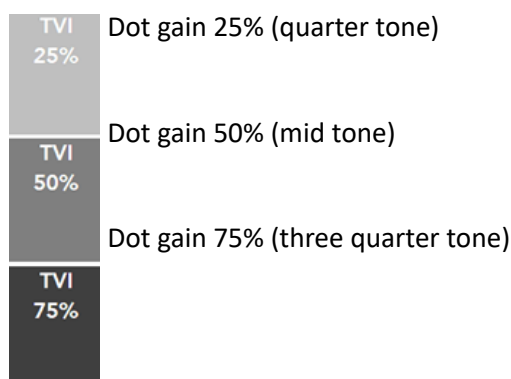


- 1) DeltaE scale
- 2) Measurement number and time stamp
- 3) Grey area = status MakeReady mode
- 4) White area = status Production mode
- 5) Green area = tolerance

4

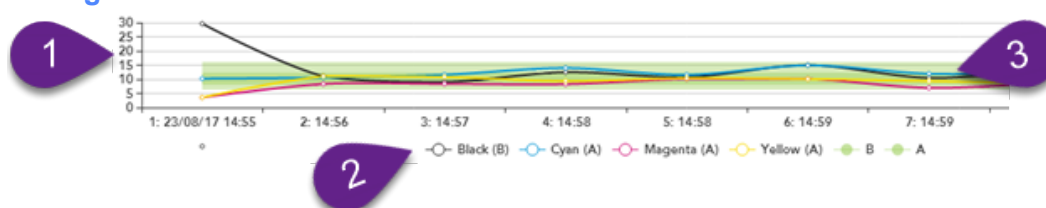
TVI percentage

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](#)

1.3.2.7. 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

1: 23/08/17 14:55	Target [L a b]	Print [L a b]	DeltaE	Tolerance	In target
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	Target [L a b]	Print [L a b]	DeltaE	Tolerance	In target
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%

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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](#)

1.3.2.8. 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 Production targetset: ISO 12647-2 -couché

Customer: Scoring: ISO 12647

Created at: 18.09.2017 12:10 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%

10.03 15.91 10.91

8.1 10.03 8.89

10.88 14.68 11.65

10.82 17.87 16.07

v4.7.0.31 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](#)

FAQ section

Find here a collection of frequently asked questions.

[Computer with 2 monitors](#)

[Send e-mail with Google Mail server](#)

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)

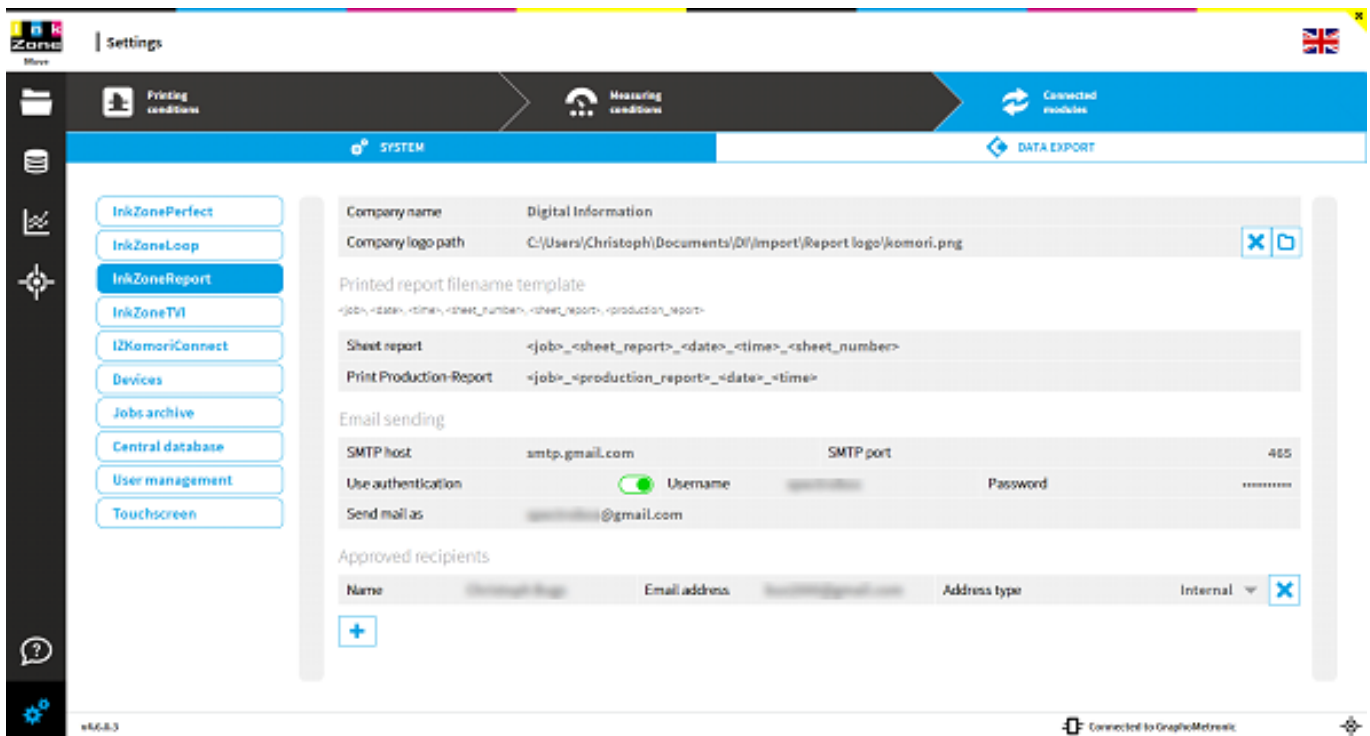
Gmail SMTP password: Your Gmail password

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-----
MIIEEjCCA2qgAwIBAgIITzPN1IDpglAwDQYJKoZIhvcNAQELBQAwVDELMakGA1UE
BhMCVVMxHjAcBgNVBAoTFUdvb2dsZS5SUCnVzdCB7ZXJ2aWwlc2E1MCHGA1UEAxMc
R29vZ2xlIE1udGVybWV0IEF1dGhvcml0eSBHMzAeFw00AAMDCxODM4NDVaFw0x
ODEwMTYxODI4MDBaMGcxCA7BgNVBAYTA1VTMRMwEQYDQKIDApDyVwXpZm9ybm1h
MRYwFAYDQQA1NnB3VudGFpb1BwakV3MRMwEQYDQKIDApHb29nbGUGTExDMRcw
FQYDQQA0DASzbxRwLndtYwlsLmNlbvTCCASiAwDQYJKoZIhvcNAQELBQADggEPA
DCC
AQoCggEBAL26yDZmwrQUOps/g+MhejCdYb9v1Dk/cSL9g4HEmJ42Urw0KEBOjoOF
DYncd+Hyd1dFtGtZJ0CuyhKXuwqLPKnM1RpERSOviQ262GTSXXBKpVf/f0whF7h
5CEuaINipYvmjP2u16vVPn/guzcGz6dxmZPjuc5G56eG87GhEwMCOXpDa08FPn4
YAnp5Z0ENBAAWumAaAskUha0bVsvm0ob/1sAmZd4bp0W1WUDebwRpaIn3Ey1aP0
aJXOMoxpSoy7sVkgqk1s6NM45B53uw+1CwNpwHvd0Z6Kyh01GhMwJcgdFXC/V7Qp
a1HpgNybgn7P8VZKU+wh1v/B8tM5RMCAwEAACCAUIwggE+MBMGA1UdJQQMMAoG
CCsGAQUFBwMBMkGA1UdEQQ5MBCCDnNtDHAUz21haWwY29tMGgGCCsGAQUFBwEB
BFwwJAtBgggrBgEFBQcwAoYhaHR0cDovL3Bra55nb29nL2dzcjIvR1RTR01BRzMu
Y3J0MCKGCCsGAQUFBzABhh1odHRwOi8vb2Nzc5ua2kuZ29vZy9hVFNHsUFHHzAd
BgNVHQ4EFgQUiP8juiQFddSW5Nq6I9svP21TmPLMwDAYDVR0TAQH/BAIwADAF8gNV
HSMEGDAWgBR3wrhQmnd2drEtwobQg6B+pn66SZAhhBgNVHSAEGjAYMAwGCisGAQ
QB1nkCBQwCAYGZ4EHAQICMDEGA1UdHwQqMCgwJqAKoCKGIGh0dHA6Ly9jcmwucGtp
Lmdvb2cvR1RTR01BRzMuY3J0MCKGCCsGAQUFBzDQDEBCwUAA4IBAQC8RwF77uzMvch
8fhvLYOQFN12y1C00q5F8zjy+aaABm3U/eBw1IYov39+Z6IQvt44NmNIW3H9aKAA
dLU07cHk0zVJ7V3hJW/1T0fRnsE58s0tD1o7dhobTpnImFY1XTCUElz7QBhTt810
yp4cPYe5Z9PKbXqa9qc9U1askXL68yuHE+RYk448g839hg1wRcIvJXipyYp1Y6S
ZKnh2bugSHijYKxMdyJ6K8Zkqar9EIdZSy2I8eRrK3qVidmvyNA0w3kh/opLm37
bdeFCaJI/JKj8oXWj6V04Q1ivh9nZNP1LNeGQqG2fvD8J5h8Wayo7i203diq4fnY
c5n3mOCU
-----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
```