InkZonePerfect
InkZoneLoop
User Guide

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

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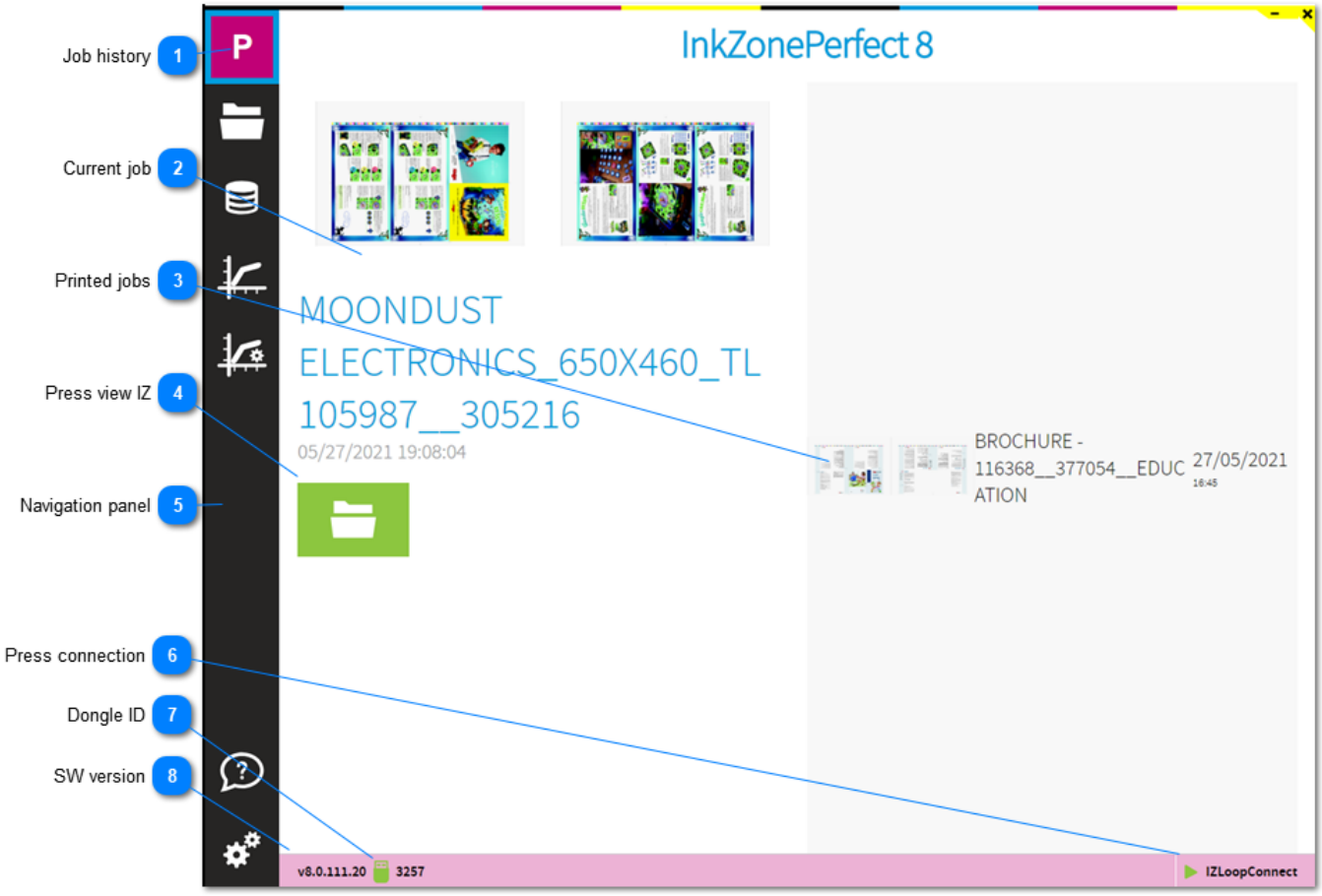
1. Online Manual

1.1. Home



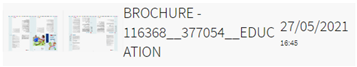
1 Job history

After program start, InkZone welcomes the user on this page. It shows the last transferred job to press and the previously printed jobs.
Simply click on the InkZone icon to return to this page

2 Current job

The large preview indicates the current job. It's the last job transferred to press.

3 Printed jobs



A job list with previously printed jobs, showing a job preview, job name and the date.

4 Press view IZ

Selct the icon to change to the press data view.
Go to press view: 1.4. Press view

5 Navigation panel

From the panel change to the calibration curve manager, the software setup, job list view and press view.

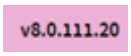
6 Press connection

The icon shows the enabled InkZone press connection module. The driver communicates to the InkZone hardware module which is connected to the press console. Certain press connection require a second press connection module when color-control is enabled.

7 Dongle ID

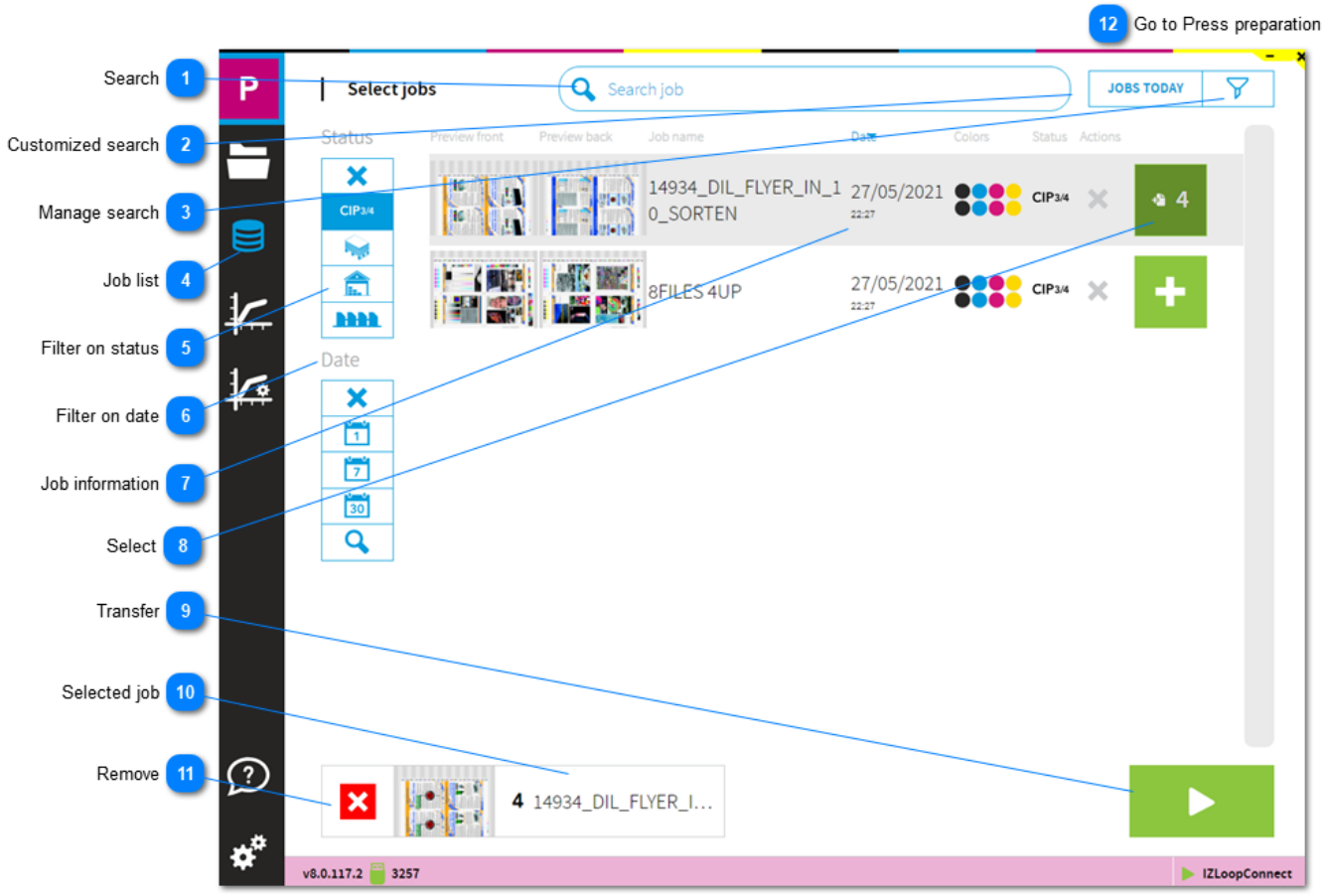
The InkZone dongle ID.
Go to license information: 1.8. License
Go to license loader: 1.8.1. License loader

8 SW version



Software version

1.2. Job list



1 Search

Start searching for jobs from here. Type a part of the job name and hit enter to view the search result. The background of the search term changes to green when a search is active. Reset the search with the red X button.

Active search:

2 Customized search

User customized search buttons to configure repeating search patterns.
Go to customized search: 1.2.4. Customized job search

3 Manage search

Create a customized search based on name, date and status and connect them with AND and OR.

Go to customized search: 1.2.4. Customized job search

4 Job list

View the job list.

5 Filter on status

Status

Filter the job list by job status.
See job filter: 1.2.2. Job filter

6 Filter on date

Date

Filter the job list by date.
See filter by date: 1.2.3. Date filter

7 Job information

Preview F	Preview B	Job name	Date	Colors	Status	Delete	Add to preparation

Preview F: preview F side
Preview B: preview B side
Job name: job name from prepress, based on the CIP3 or JDF
Date: creation time and date
Colors: separation colors for the F and B side
Status: See job status: 1.2.2. Job filter
Delete: remove job
Add to preparation: add to job preparation, shows the number of signatures when there are more than one

8 Select

Select the job from here and transfer it to the press-preparation area. The icon shows also the number of signatures. See select signature: 1.2.1. Select signature

9 Transfer

Transfer selected job to press-preparation.
See 1.3. Press preparation

10 Selected job

Selected job/s ready to be transferred to press preparation screen.

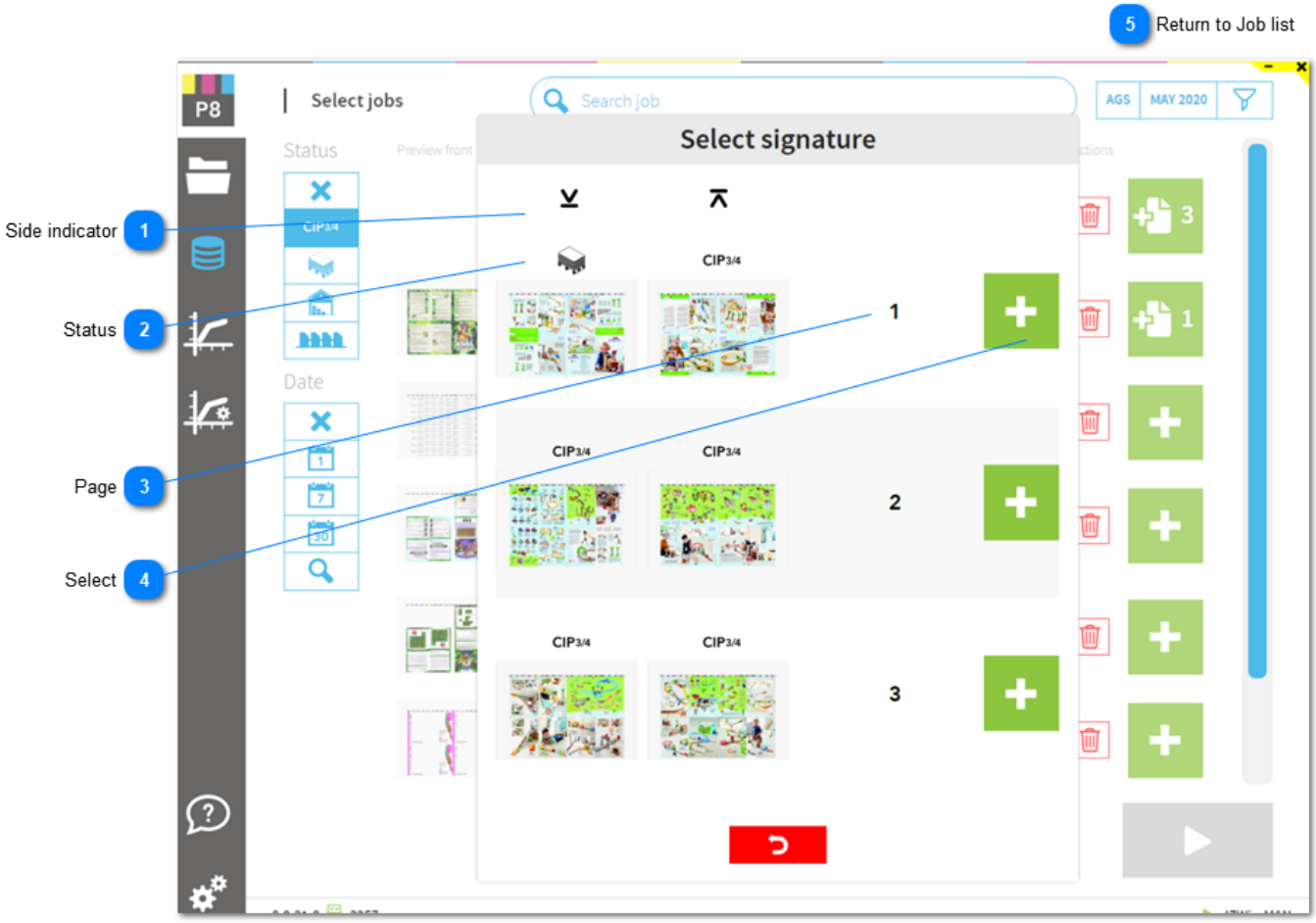
11 Remove

Remove selected job

12 Go to Press preparation

Go to Press preparation: 1.3. Press preparation

1.2.1. Select signature



1 Side indicator

Indicator for A side (arrow down) and B side (arrow up).

2 Status

Status Printed Status Ready to print

3 Page

1

Signature number

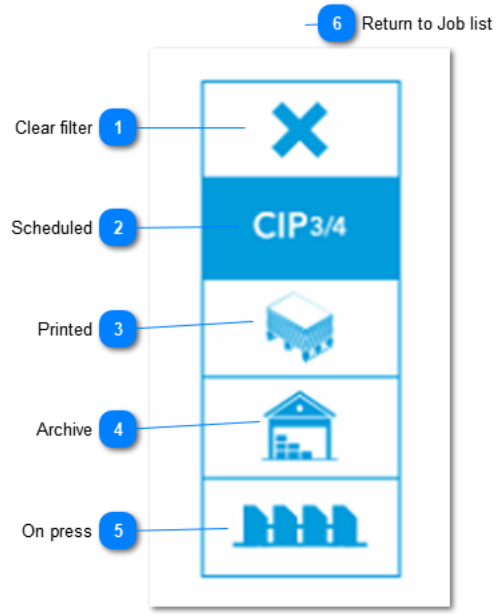
4 Select

Select signature for the press-preparation area

5 **Return to Job list**

1.2. Job list

1.2.2. Job filter



1 Clear filter

Clear any filter selection and show all jobs.

2 Scheduled

Lists jobs ready to be print, prepared in CTP (jobs are not printed yet).

3 Printed

Lists all jobs printed but not archived.

4 Archive

Lists all archived jobs.

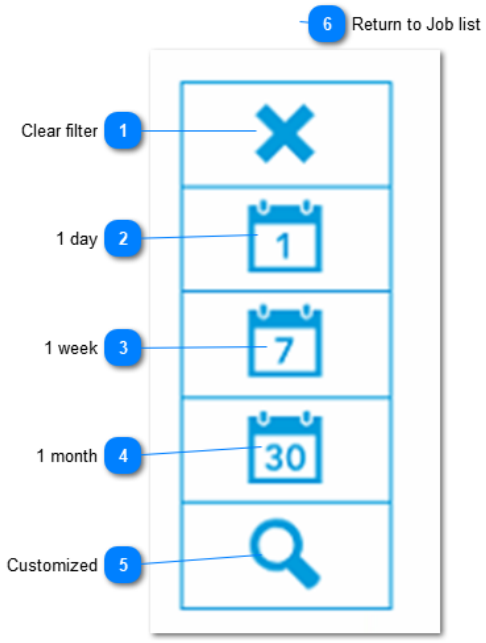
5 On press

Job on the press.

6 Return to Job list

1.2. Job list

1.2.3. Date filter



1 Clear filter

Clear filter. All jobs are shown in job list.

2 1 day

Create a job list with jobs from today.

3 1 week

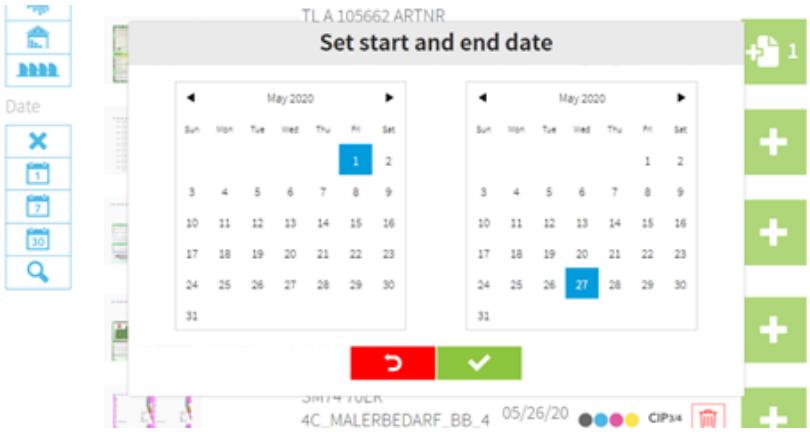
Create a job list with jobs not older than 1 week.

4 1 month

Create a job list with jobs not older than 1 month.

5 Customized

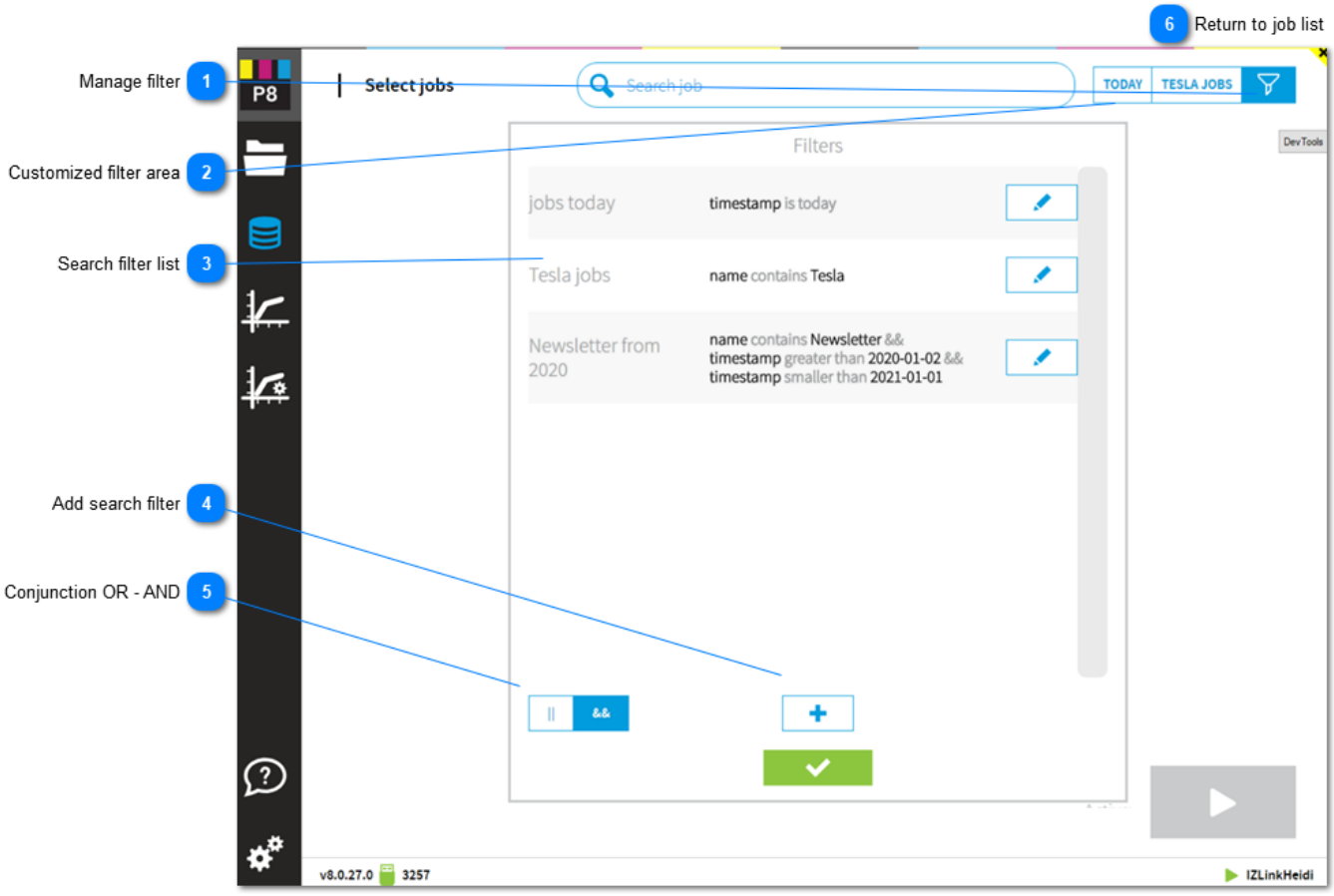
Create a customized time frame with a start and end date:



6 **Return to Job list**

1.2. Job list

1.2.4. Customized job search



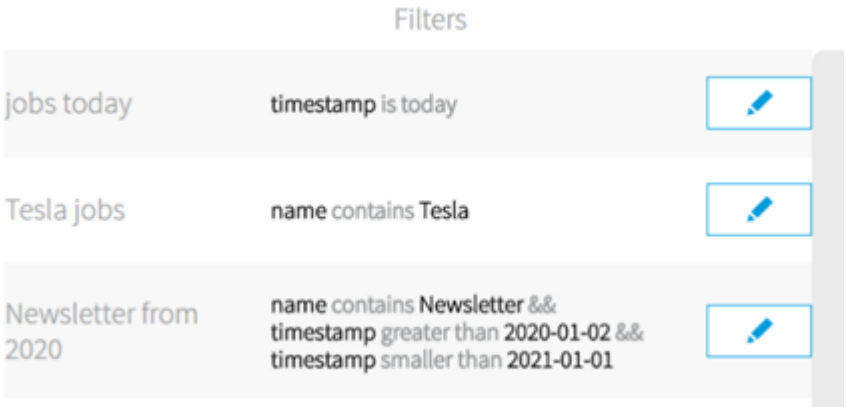
1 Manage filter

Manage the customized filter from here.

2 Customized filter area

Horizontal list with buttons for customized search.

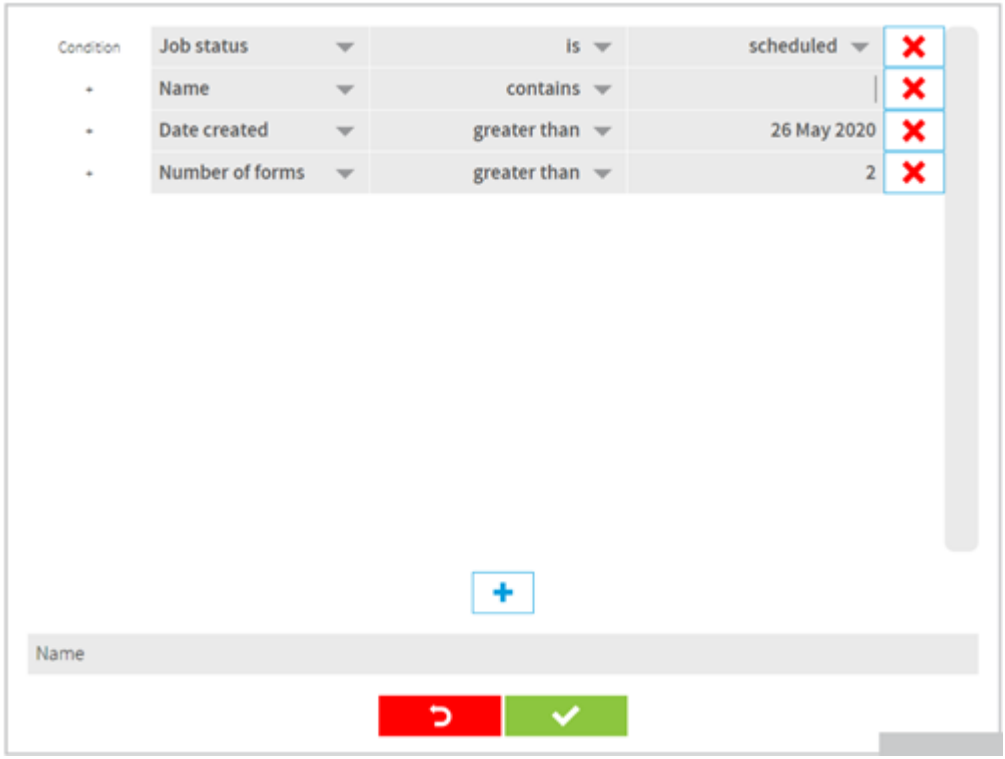
3 Search filter list



List with all customized filters.

4 Add search filter

Create a customized search based on job status, job name, date and number of forms



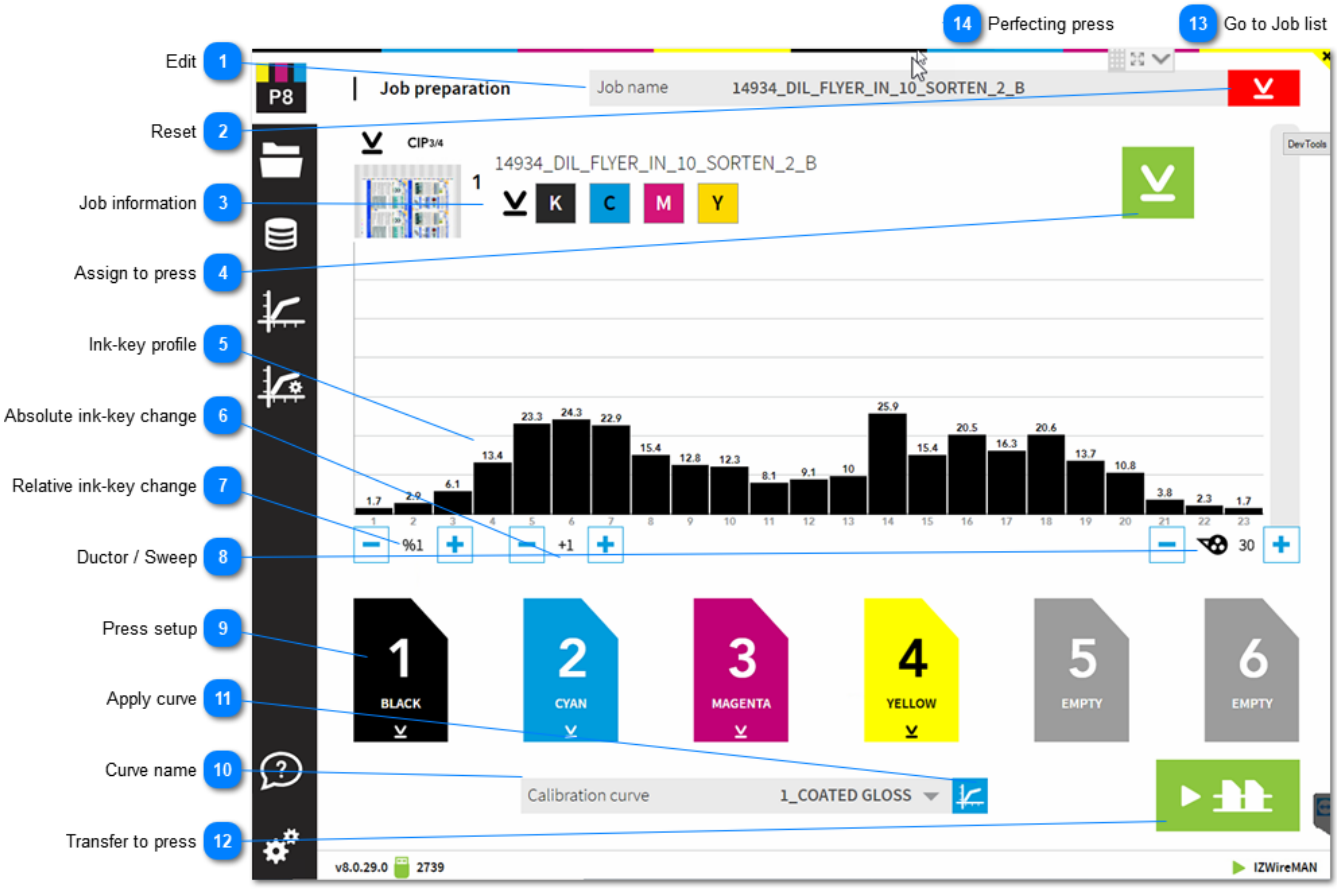
5 Conjunction OR - AND

Create a search filter with AND, OR conjunctions

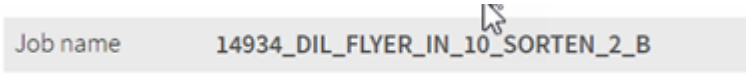
6 Return to job list

1.2. Job list

1.3. Press preparation



1 Edit



Job name. Can be modified here.

2 Reset

Clear the current color to press unit assignment

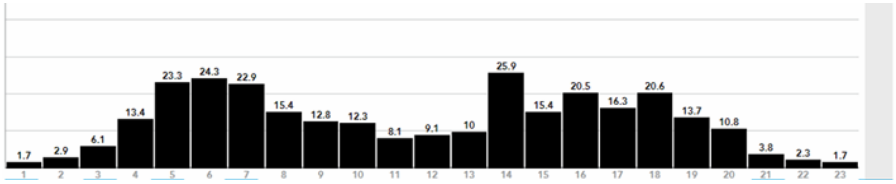
3 Job information

Job information. Drag and drop from here a color to the press unit. C M Y K colors are automatically assigned to the unit defined in the press setup. A spot color is typically assigned by selecting drag and drop.

4 Assign to press

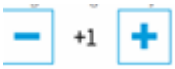
Assigns C M Y K, the process colors, to the press units. The standard color to unit assignment from the InkZone press setup is used.

5 Ink-key profile



Preview of the ink-key profile and the raw plate coverage.

6 Absolute ink-key change

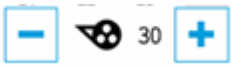


Increase and decrease ink-key values absolute.

7 Relative ink-key change

Increase and decrease ink-key position relative.

8 Ductor / Sweep



Increase and decrease ductor / sweep in absolute mode

9 Press setup

Selected ink assignment.

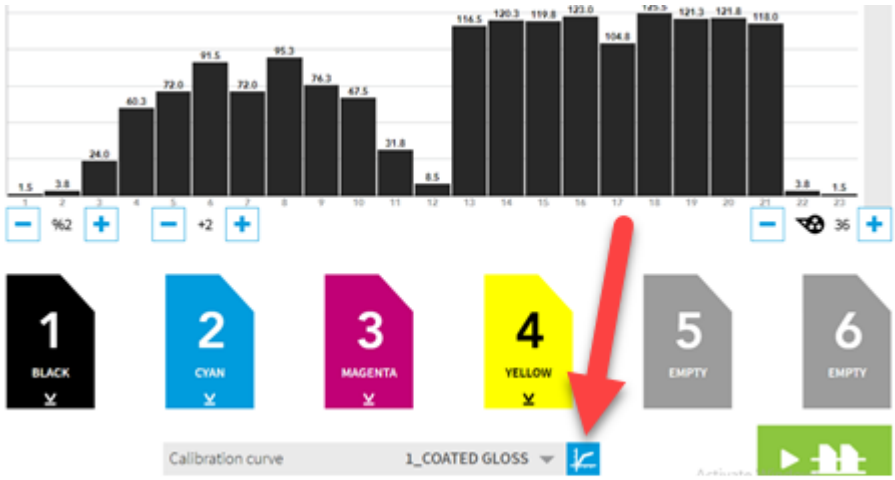
10 Curve name

Active paper calibration curve, used for the ink-preset.

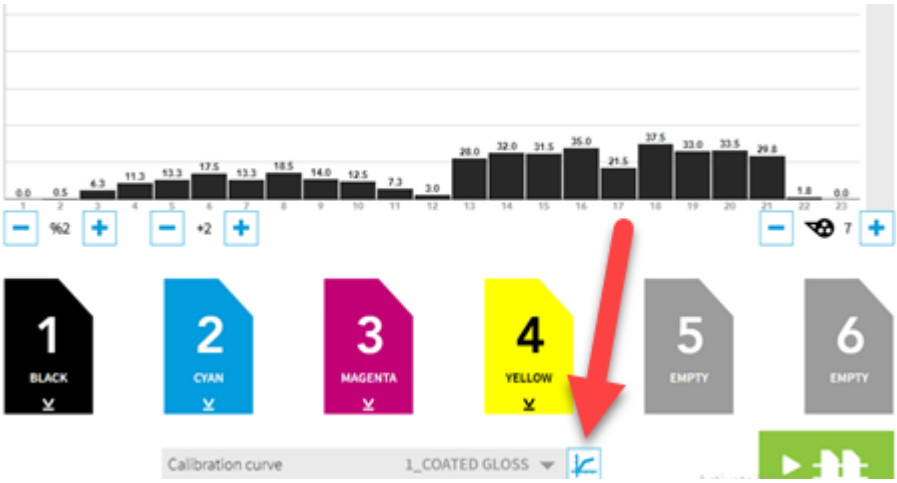
11 Apply curve

By default, the button is in mode apply calilbration curve to ink-coverage. The ink-key profile shown above is the data to be transferred to press.
Toggle with the button between plate coverage and ink-key profile data.

Apply curve active: shows ink-key profile for press



Apply calibration curve not active: shows plate coverage



12 Transfer to press

Transfer job to the press console.

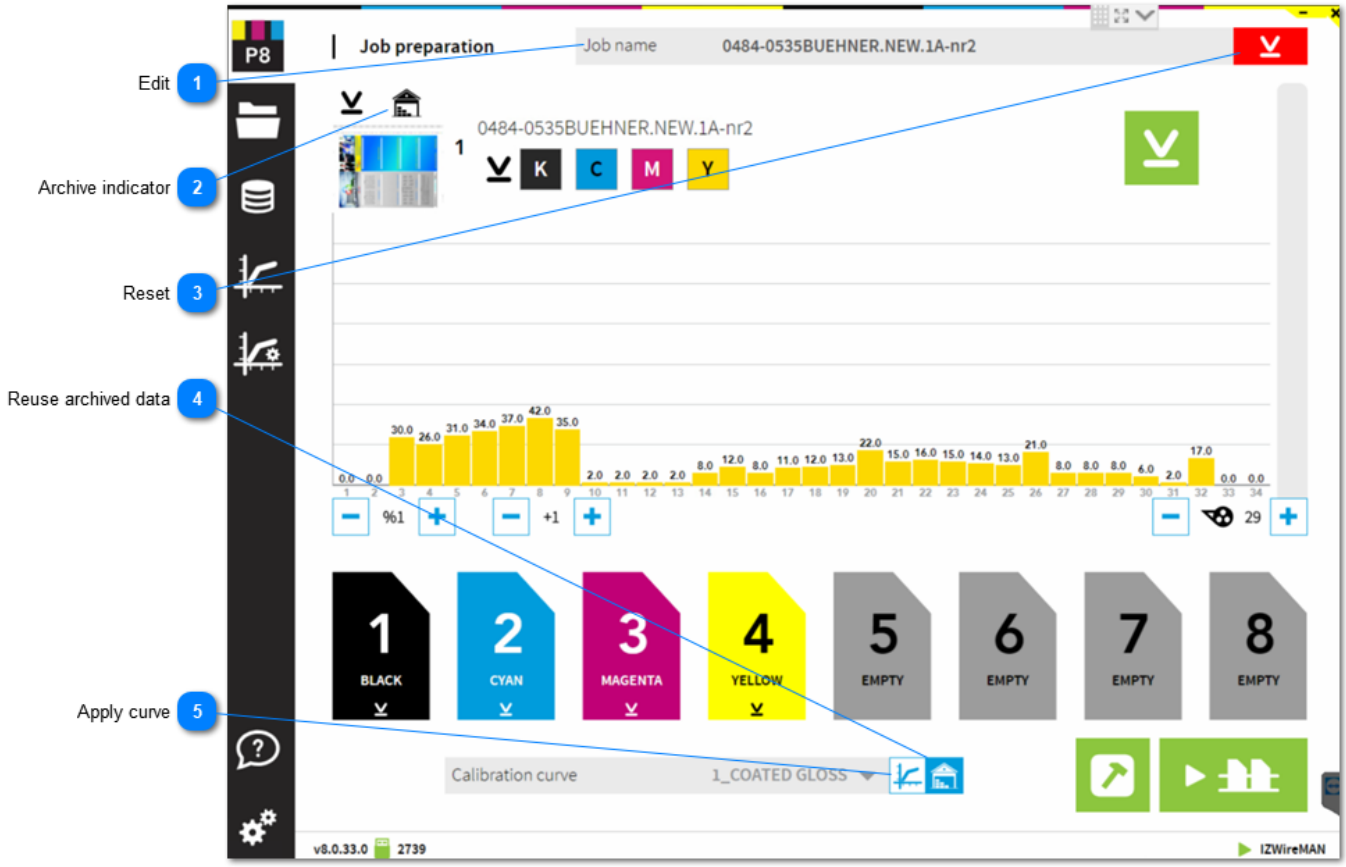
13 Go to Job list

1.2. Job list

14 Perfecting press

See the job setup for a perfecting press here: 1.3.2. Perfecting job

1.3.1. Reprint job



1 Edit

Job name 0484-0535BUEHNER.NEW.1A-nr2

Job name from archive. If required, change job name here.

2 Archive indicator

Job is archived indicator. Job is printed and received final ink-key position from press console.

3 Reset

Reset the color to unit assignment

4 Reuse archived data

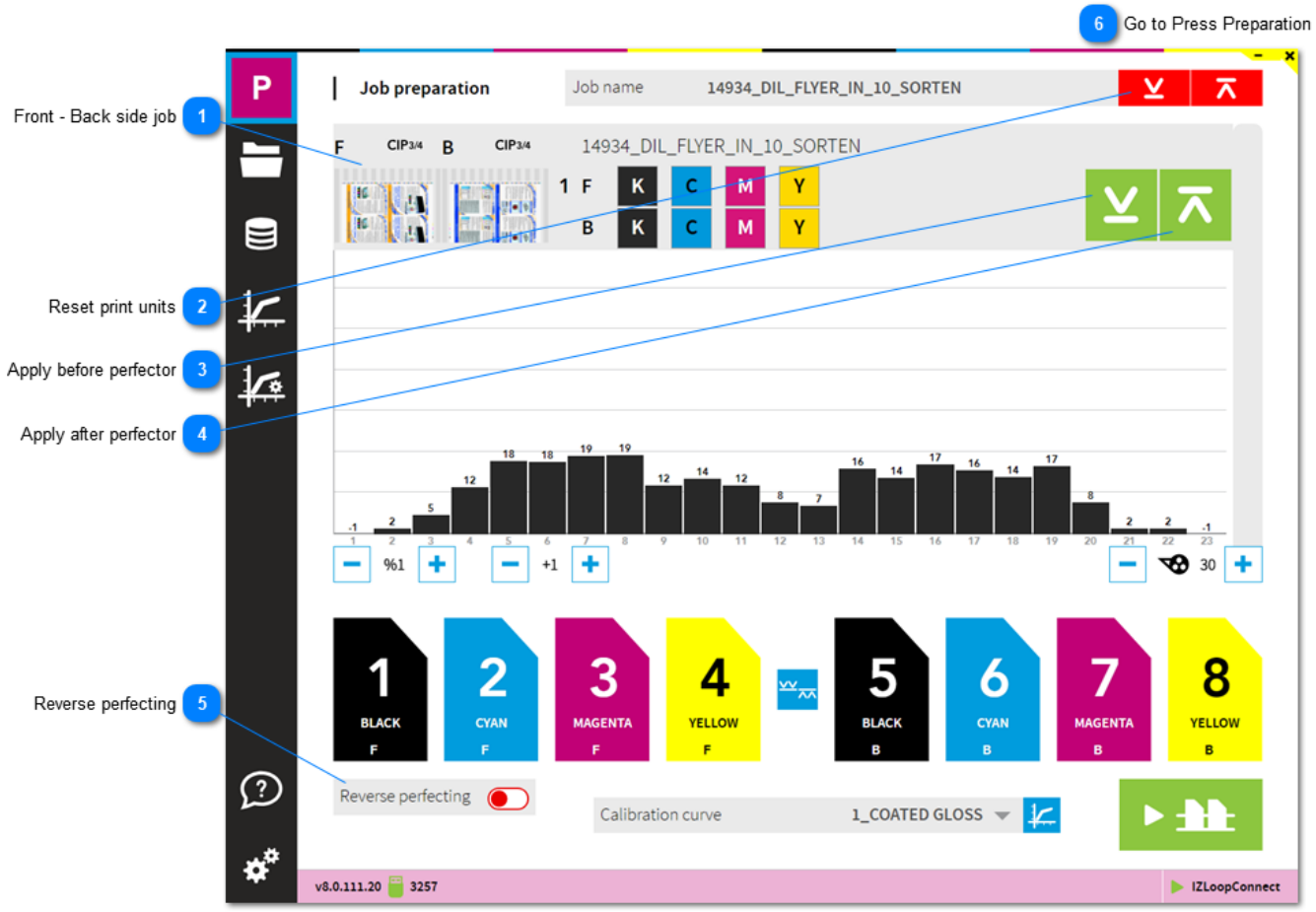
Use the ink-key profile from the archived job.

5 Apply curve

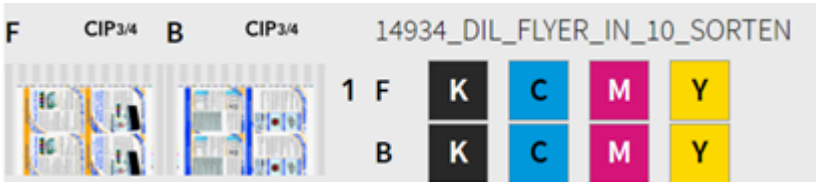
1_COATED GLOSS

Instead of using the ink-key profile from the archive, apply a calibration curve to the plate coverage data.

1.3.2. Perfecting job



1 Front - Back side job



Job information

2 Reset print units

Reset job assignment for units before and/or after perfector

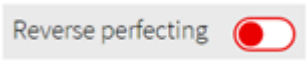
3 Apply before perfector

Apply F side before perfector.
Note: when the option reverse perfecting is enabled, the F side is applied to the units after perfector.

4 Apply after perfector

Apply B side after perfector.
Note: when the option reverse perfecting is enabled, the B side is applied to the units before perfector.

5 Reverse perfecting



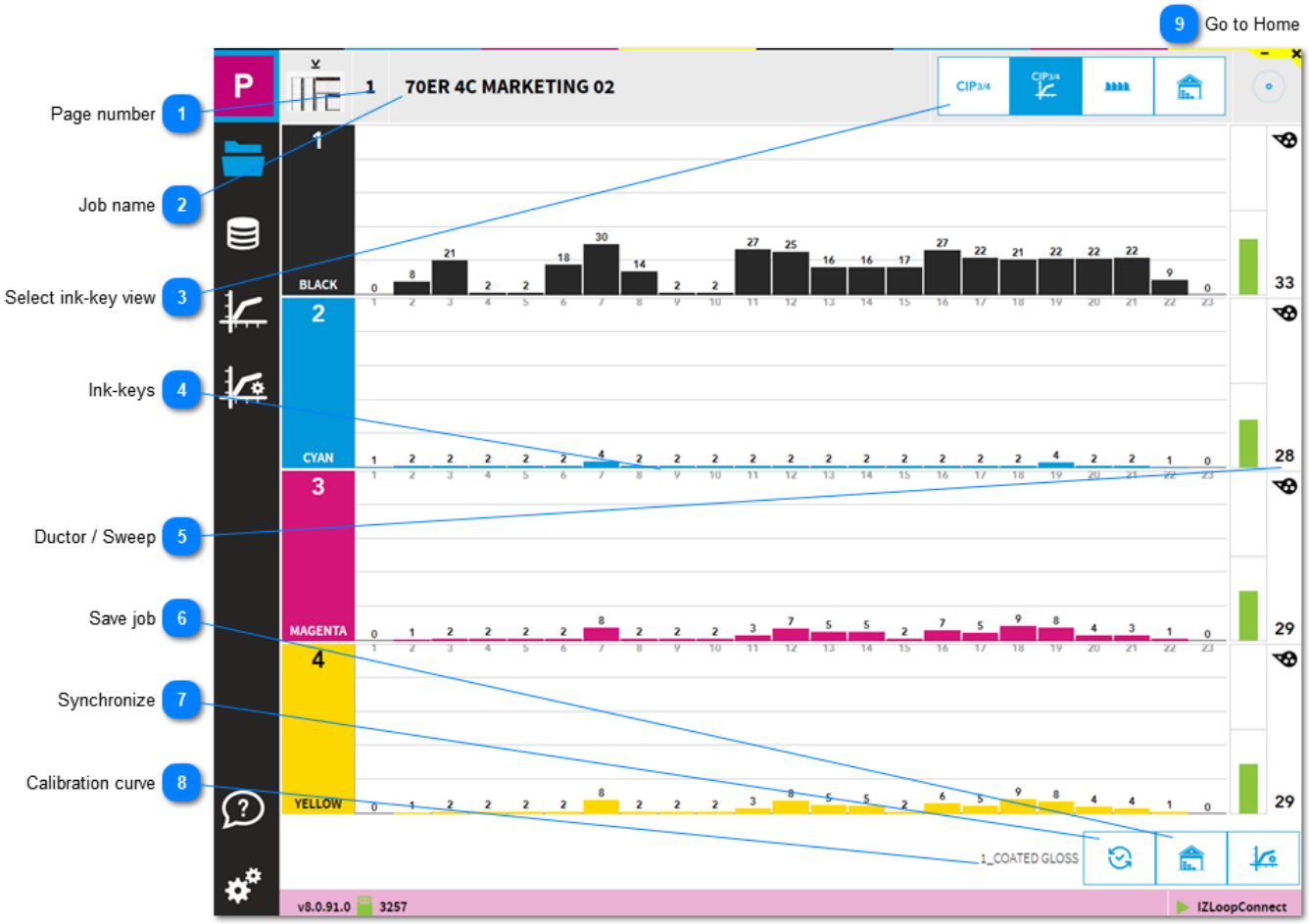
Enable reverse perfecting to apply the job's F side to the units after perfector.

6 Go to Press Preparation

1.3. Press preparation

1.4. Press view

1.4.1. Ink-preset



1 Page number

1

The page number of a job with multiple signatures.

2 Job name

70ER 4C MARKETING 02

Job name

3 Select ink-key view

Select the the data view:

CIP3/4 Plate coverage

Ink-key profile sent to press.

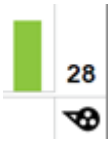
Ink-key data received from press. The press data is displayed after the console stores the job data to InkZone.

Ink-key data of the archived job. The data is visible after the console stores job data to InkZone and the archive button is pressed.

4 Ink-keys

Ink-key profile

5 Ductor / Sweep



Ductor / Sweep value

6 Save job

Store the current job data to the archive and / or to the calibration curve linearization list.
Note: the job data can be stored when ink-key data received previously from press console.

Archive job data.

Store data to for linearization and optimization of the calibration curve.

7 Synchronize

Synchronize ink-keys and ductor with press. InkZone receives press setting.

8 Calibration curve

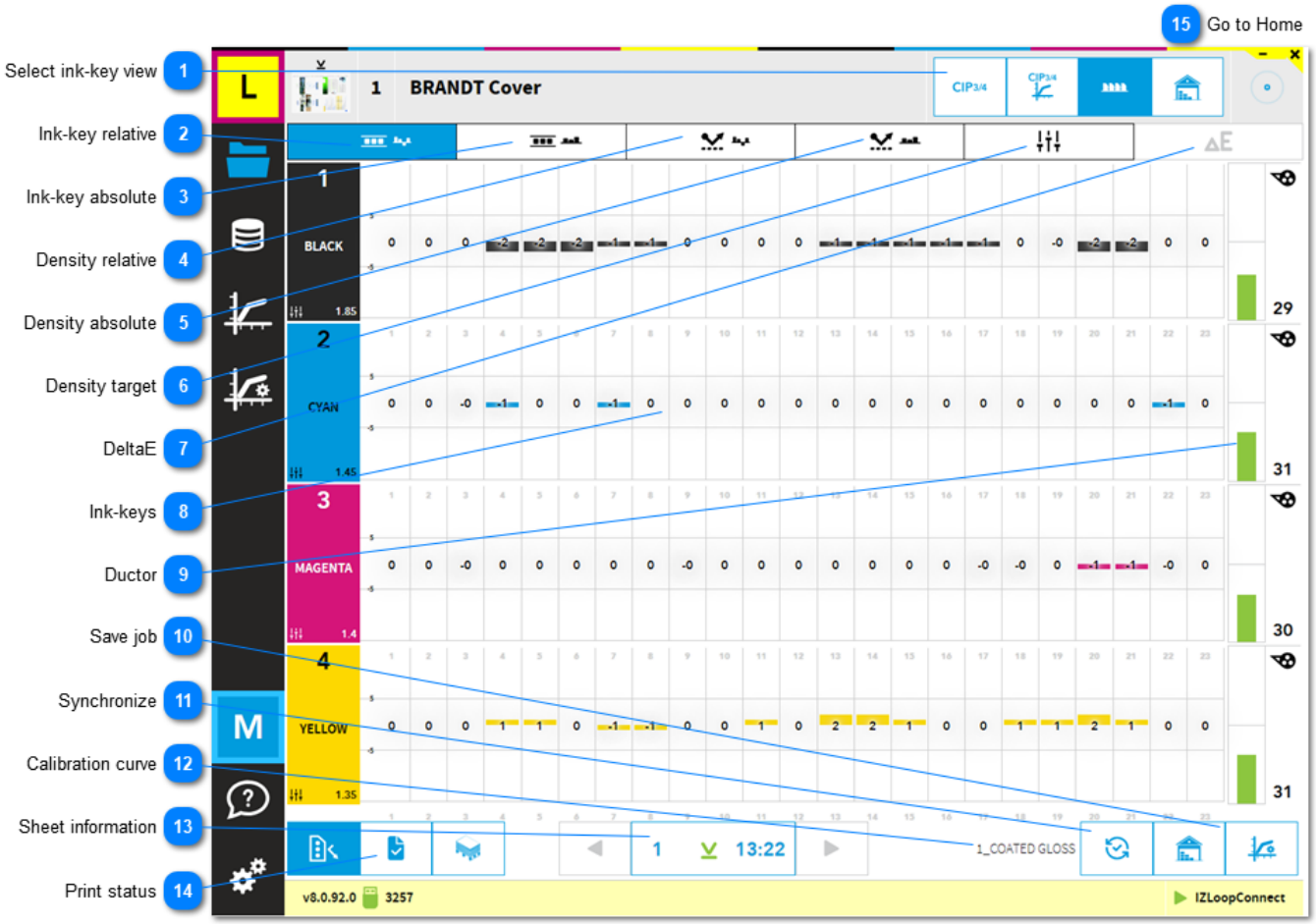
1_COATED GLOSS

The calibration curve name used for the press ink-preset.

9 Go to Home

1.1. Home

1.4.2. Color-Control overview



1 Select ink-key view

Select the data view.

CIP3/4	Plate coverage
CIP3/4	Ink-key profile sent to press.
	Ink-key data received from press. The press data is displayed after the console stores the job data to InkZone.
	Ink-key data of the archived job. The data is visible after the console stores job data to InkZone and the archive button is pressed.

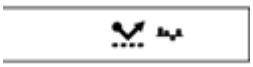
2 Ink-key relative

Ink-key correction in relative view is displayed after receiving scan data (default view).

3 Ink-key absolute

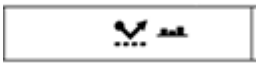
Ink-key correction in absolute view is displayed after receiving scan data.
See here: 1.4.2.1. Ink-key absolute view

4 Density relative



Measured density data in in relative mode
See here: 1.4.2.2. Density relative view

5 Density absolute



Measured density data in absolute mode
See here: 1.4.2.3. Density absolute view

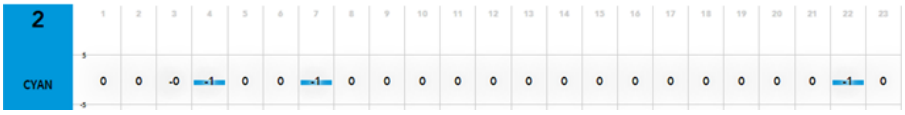
6 Density target

The target density set by the measurement software.
See here: 1.4.2.4. Density target view

7 DeltaE

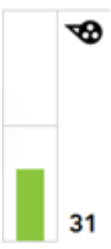
DeltaE view.
See here: 1.4.2.5. DeltaE view

8 Ink-keys



Ink-keys displayed in relative view. The ink-key corrections data is calculated by the InkZone color-control engine.

9 Ductor



Ductor / sweep value

10 Save job

Store job data to the archive or to the linearization job list.
The job data can only be stored when ink-key data was stored from press to InkZone.

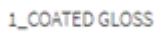
Archive job data.

Store data to for linearization and optimization of the calibration curve.

11 Synchronize

Synchronize ink-key and ductor with press

12 Calibration curve



The name of the calibration curve used for ink presetting the press.

13 Sheet information

Scan measurement number with scan side indicator and time.

14 Print status

Print status.

MakeReady mode

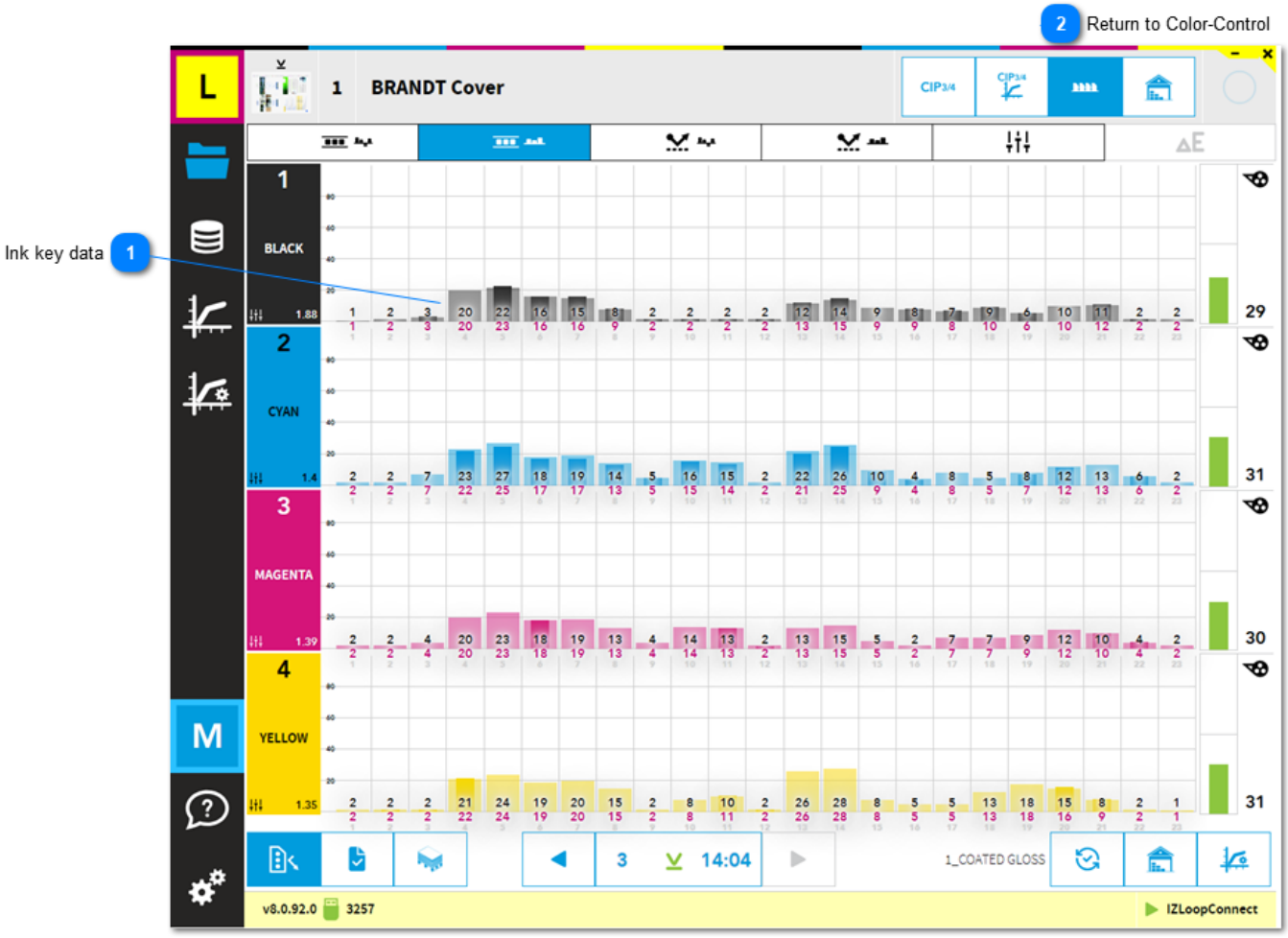
OK-sheet is set.

Production mode

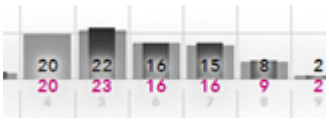
15 Go to Home

1.1. Home

1.4.2.1. Ink-key absolute view



1 Ink key data

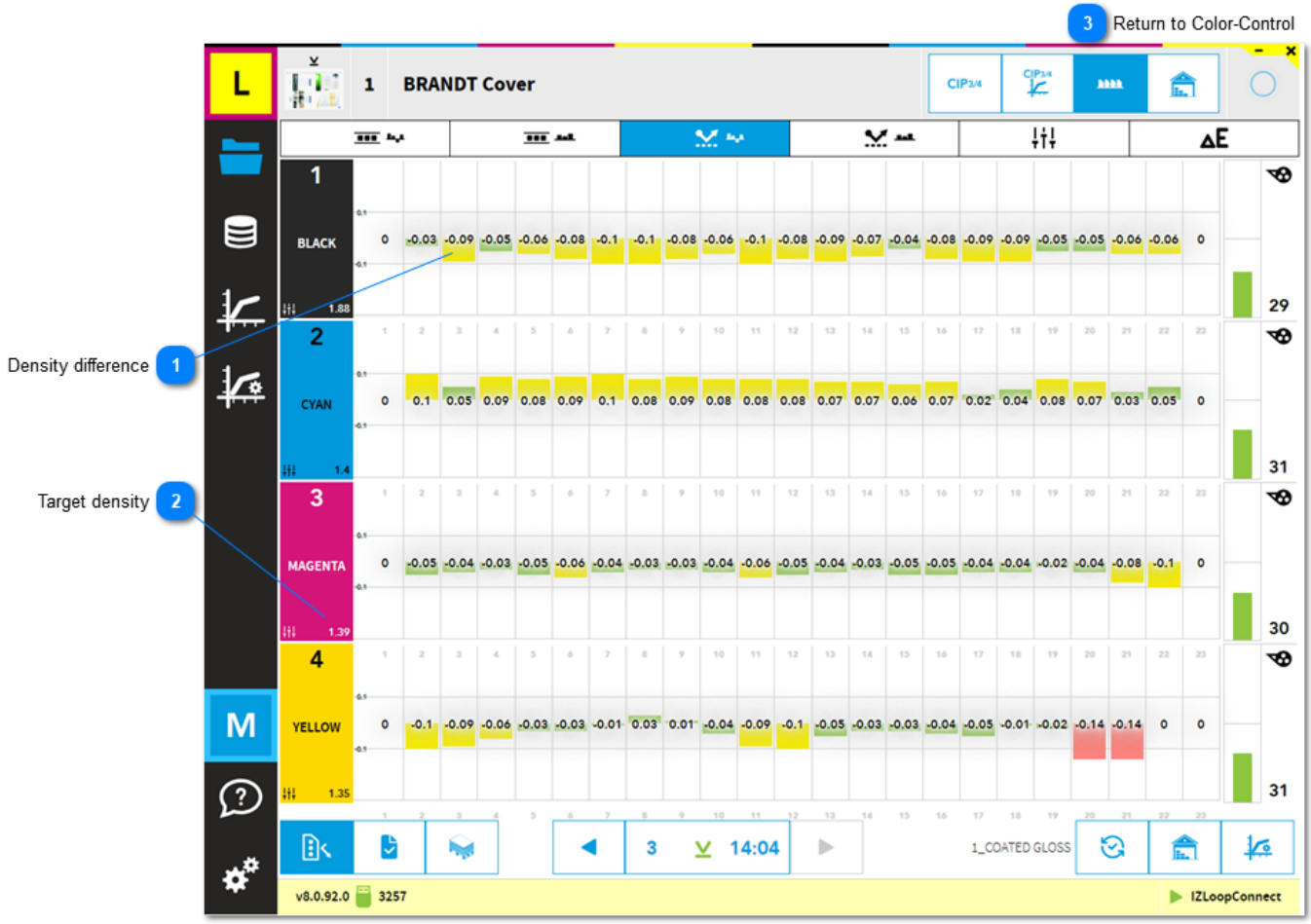


The ink-key correction is the red number and displayed by the inner, darker column.
The ink-keys received from the press console are shown by the black number, displayed by the light colored column.

2 Return to Color-Control

1.4.2. Color-Control overview

1.4.2.2. Density relative view



1 Density difference

The density difference between target and measured density.

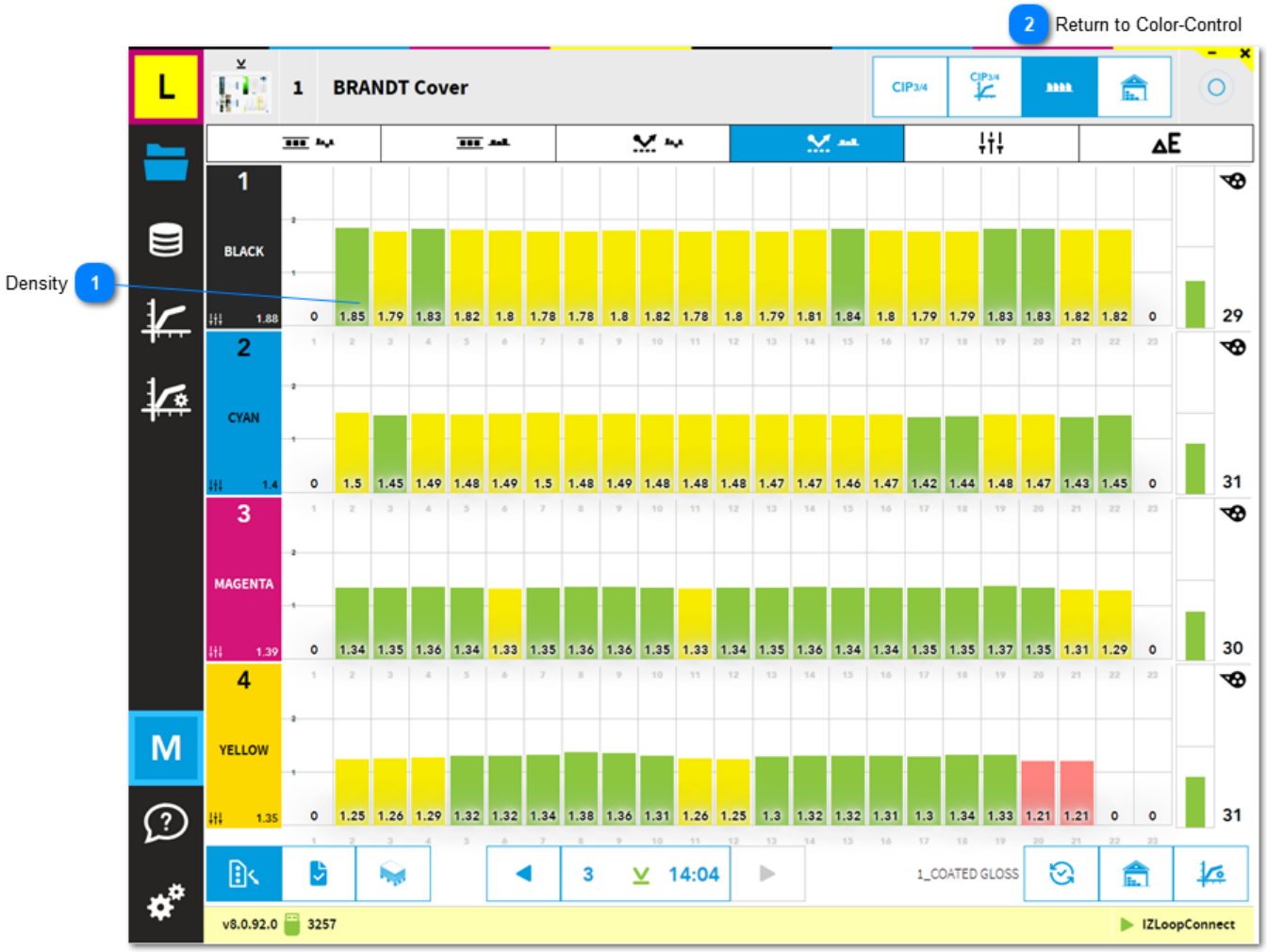
2 Target density

The target density set-up by the scanning software.

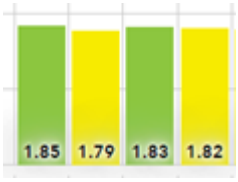
3 Return to Color-Control

1.4.2. Color-Control overview

1.4.2.3. Density absolute view



1 Density



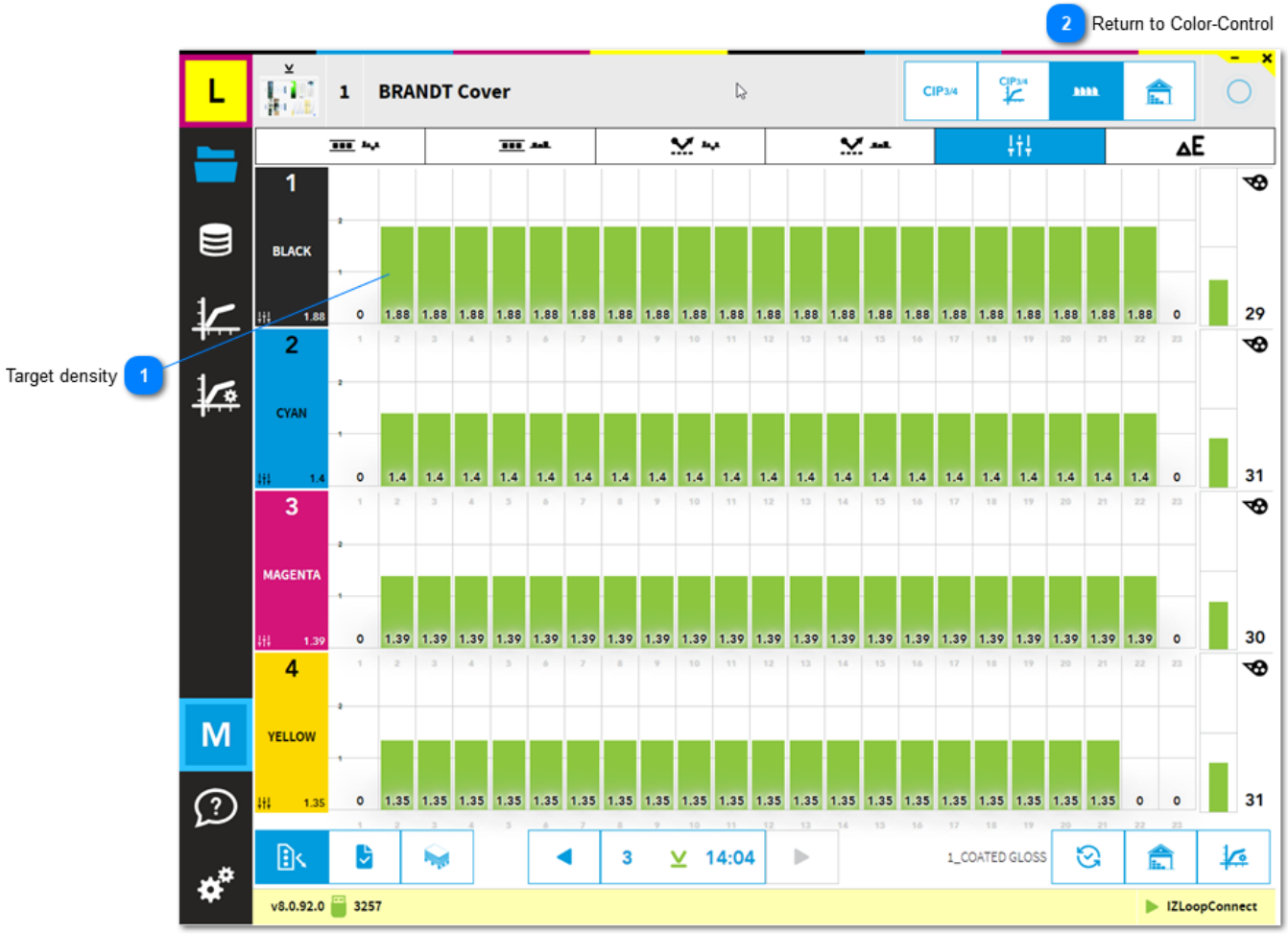
Density from measurement software.

Green column = ink-key is not regulated
Yellow column = ink-key is regulated
Red column = ink-key is regulated
Setup the regulation threshold in InkZoneLoop setting:

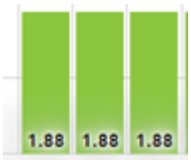
2 Return to Color-Control

1.4.2. Color-Control overview

1.4.2.4. Density target view



1 Target density

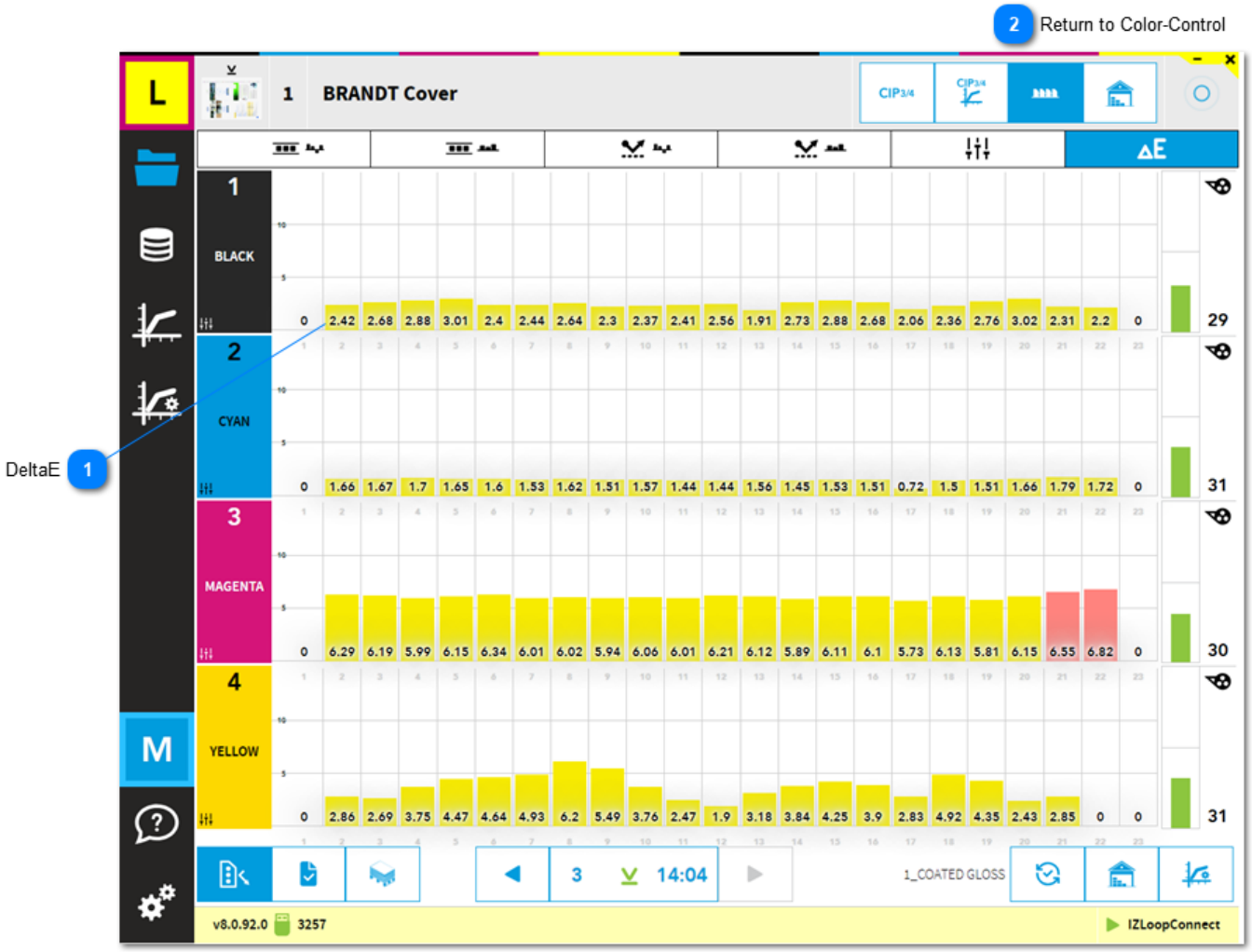


Target density set by scanning software.

2 Return to Color-Control

1.4.2. Color-Control overview

1.4.2.5. DeltaE view



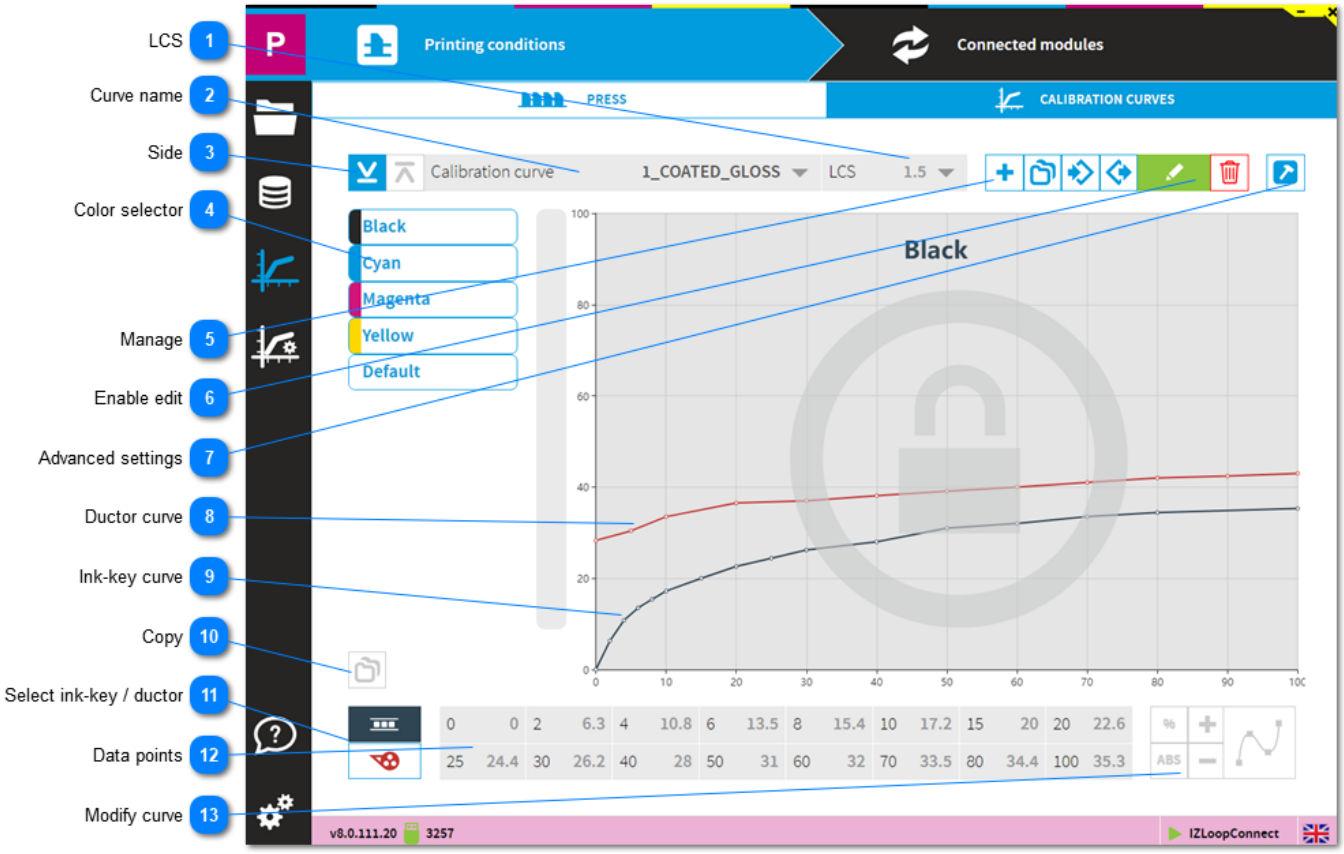
1 DeltaE

DeltaE from measurement software.

2 Return to Color-Control

1.4.2. Color-Control overview

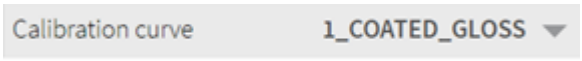
1.5. Calibration curve



1 LCS

Set the ink-key opening for Low Coverage Surface. It applies to the plate coverage below 2%.

2 Curve name



Select curve

3 Side

Select side

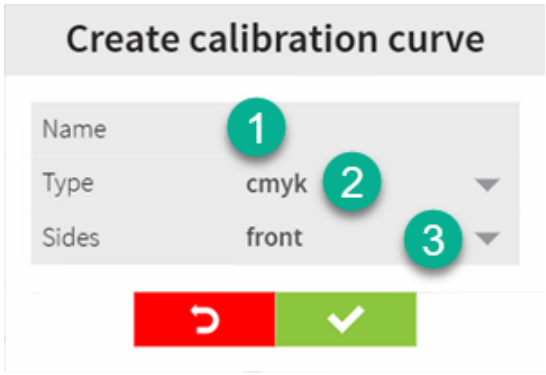
4 Color selector

Select color

5 Manage

Icon meaning from left to right:
add a new curve - duplicate - import - export

Icon	Description	Details
	Create a new calibration curve	1. Choose a name 2. Choose between CMYK and spot color curve 3. Choose single or double sided curve
	Duplicate calibration curve	1. Choose a name 2. Choose single or double sided curve
	Import calibration curve	Import data from a current installations or from a previous InkZone version.
	Export calibration curve	Export data



6 Enable edit

Enable edit mode

7 Advanced settings

Description

1. Link the InkZone ink-preset calibration curve with an InkZoneMove targetset. InkZoneMove then loads automatically the assigned targetset when a job is created.
2. Import targetset, shared with InkZoneMove.
See here: 1.5.1. Import targetset

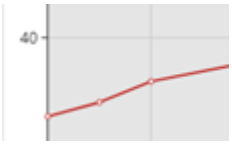
3. Choose the curve smoothing level which is applied by the smoothing button

4. Scan instrument backing, informative only

5. Link to the InkZoneLoop regulation setup. See here: 1.7.4. InkZoneLoop settings

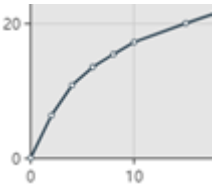
Apply the smoothing function within the calibration curve editor.

8 Ductor curve



The red curve displays ductor / sweep curve

9 Ink-key curve



The black curve displays ink-key curve

10 Copy

Copy a curve shape to another color.

1. Selected color
2. Choose target color

11 Select ink-key / ductor

1. Ink-key curve
2. Ductor / sweep curve

12 Data points

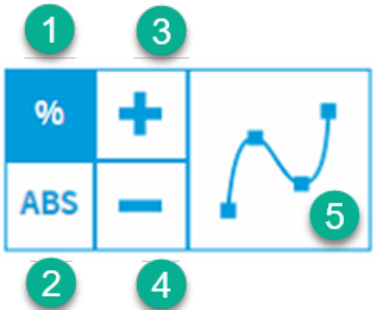
0	0	2	6.3	4	10.8	6	13.5	8	15.4	10	17.2	15	20	20	22.6
25	24.4	30	26.2	40	28	50	31	60	32	70	33.5	80	34.4	100	35.3

Coverage (1) to ink-key or ductor (2)

1		2													
0	0.0	2	6.3	4	10.8	6	13.5	8	15.4	10	17.2	15	20.0	20	22.6
25	24.4	30	26.2	40	29.0	50	31.0	60	32.0	70	33.5	80	34.4	100	35.3

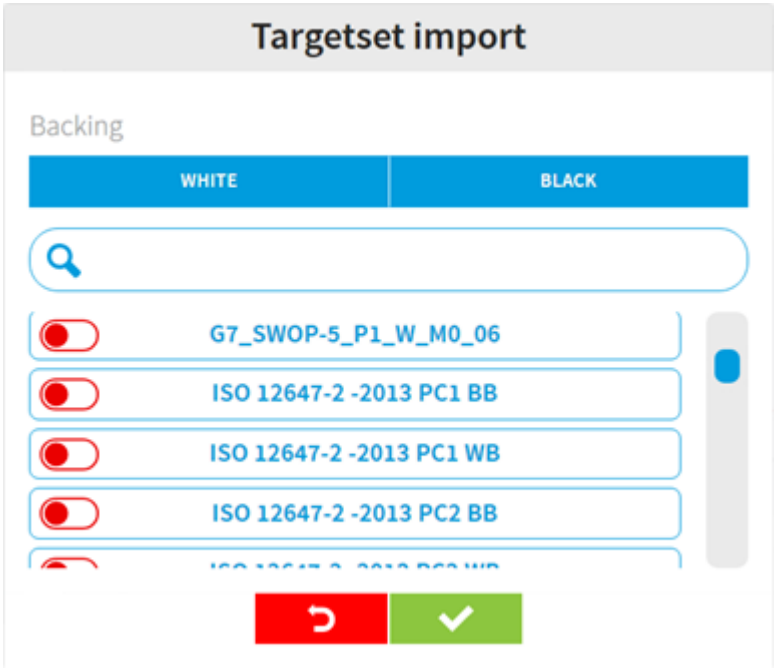
13 Modify curve

1. Relative change selector
2. Absolute change selector
3. Change positive
4. Change negative
5. Apply curve smoothing

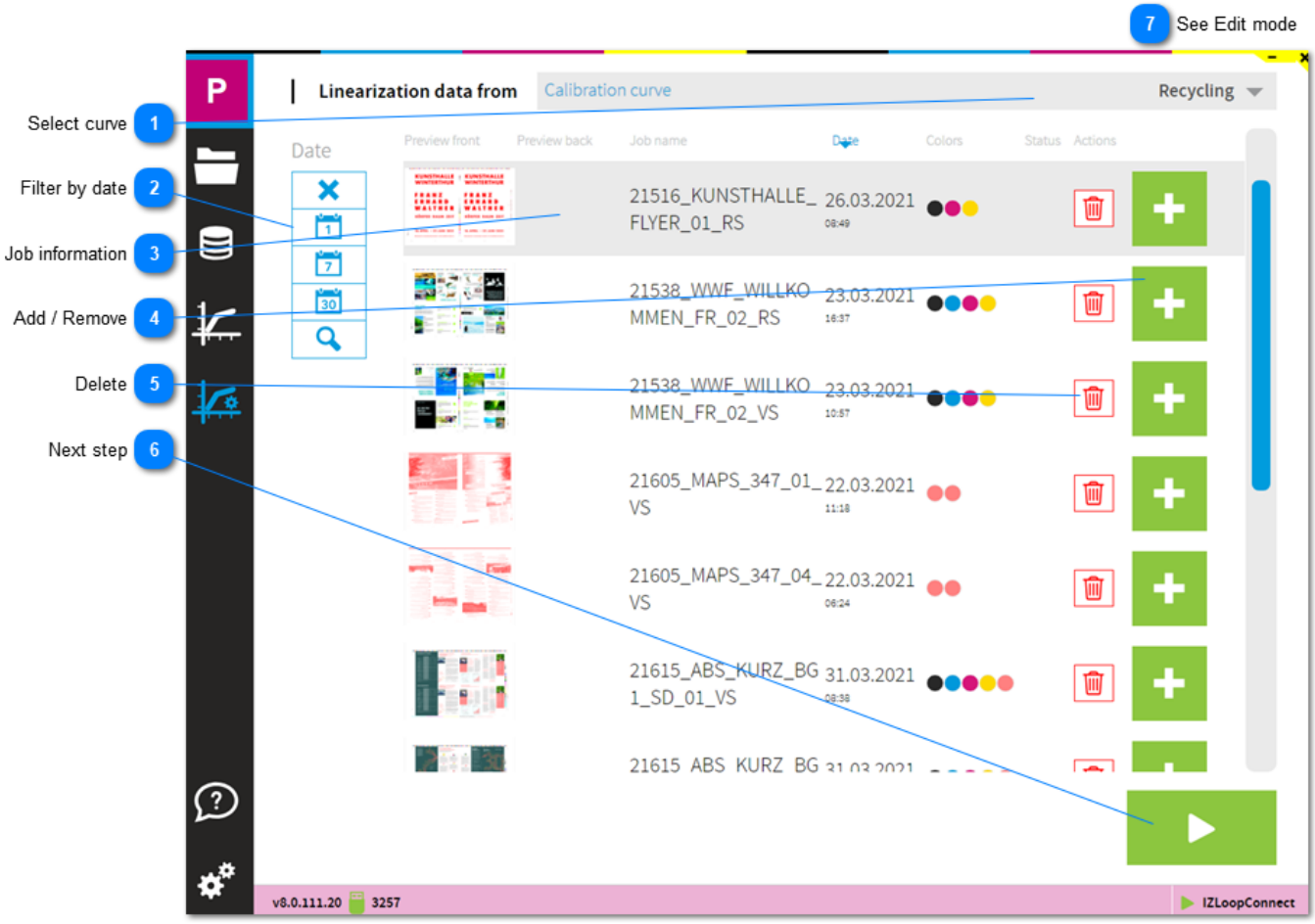


1.5.1. Import targetset

Choose the targetset for either black or white instrument backing. For InkZonePerfect, the selection is informational only and does not related to Lab or Density values from the targetset itself.
The link between targetset and ink-preset calibration curve is loads the selected targetset for a new job within InkZoneMove, see Calibration curve .



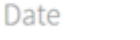
1.6. Linearization



1 Select curve

Shows all linearization jobs from selected calibration curve.

2 Filter by date



Filter linearization jobs by date:

1 Clears all applied filters and all jobs are shown in job list.

2 Create a job list with jobs from today.

3 Create a job list with jobs not older than 1 week.

4 Create a job list with jobs not older than 1 month.

5 Create a customized period of time with a start and end date.

3 Job information

Job information with preview, name, date and printed colors.

4 Add / Remove

By default, all jobs are selected to be used for linearization.
Simply click on the icon to remove it from the set. The icon changes to a minus with red background.

Job is part of linearization process.

Job does not take part in the linearization process.

5 Delete

Delete linearization job.

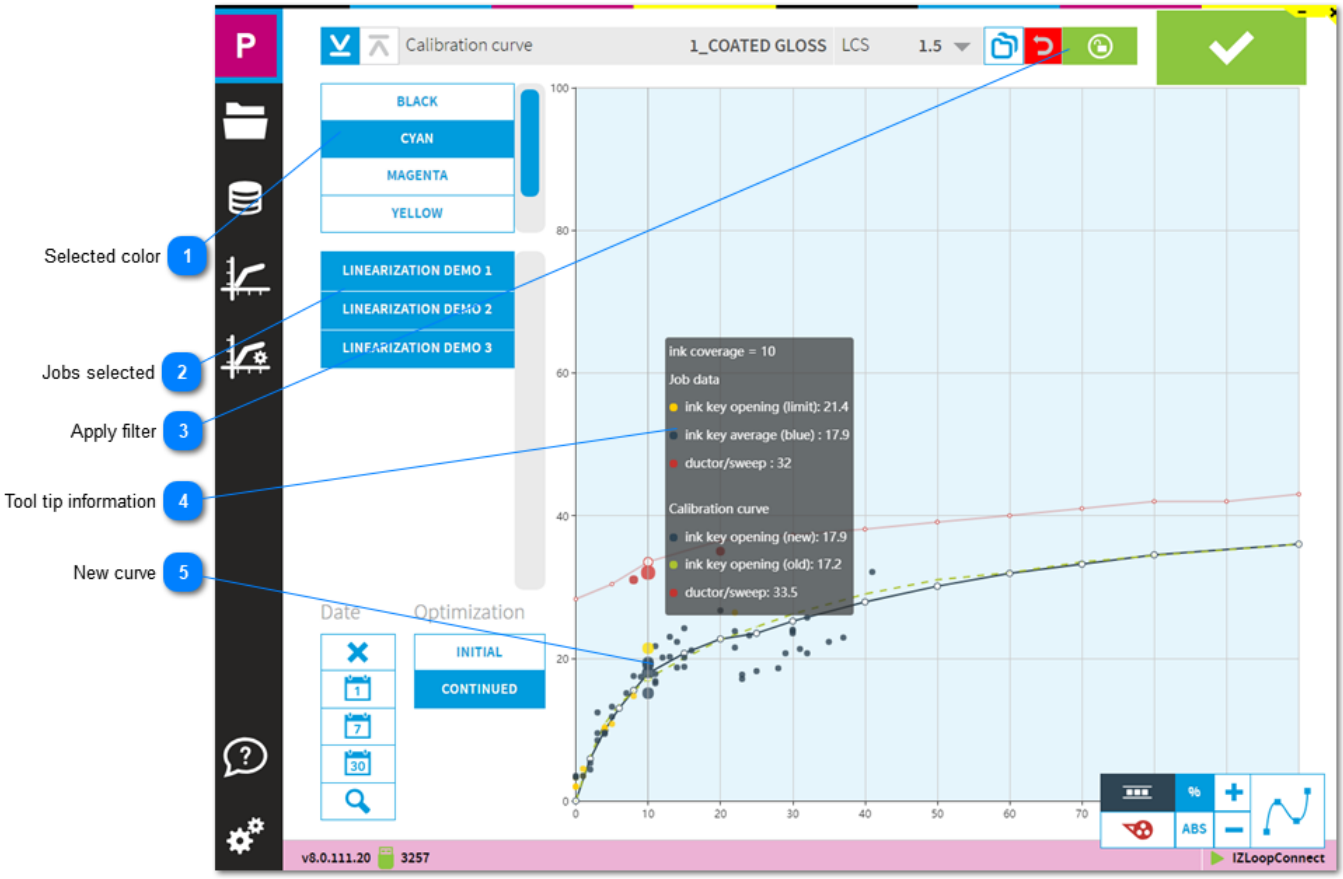
6 Next step

Continue here with the linearization process after the job selection.
See here: 1.6.1. Preview

7 See Edit mode

1.6.2. Edit

1.6.1. Preview



1 Selected color

Color selected

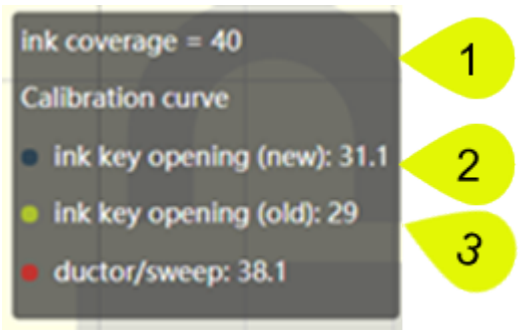
2 Jobs selected

A list with all jobs selected for linearization. With a click on the job name, the data is ignored for the curve adjustment.

3 Apply filter

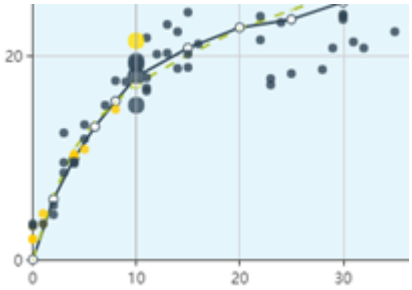
Filter to exclude ink-key which do not match a density and DeltaE deviation.
See here 1.6.1.1. Filter

4 Tool tip information



Tool tip information for calibration curve point.
Read like:
- for the ink-coverage of 40% **(1)**, the calibration curve opens an ink-key (new) to 31.1 **(2)**.
- before the calibration run, the calibration curve opened the ink-keys (old) to 29 **(3)**.

5 New curve



Recalculated calibration curve.
- Green dots match the filter selection.
- Red dots do not match the filter and are excluded.
- Yellow dots are side ink-keys and are excluded.

1.6.1.1. Filter

Note: only available in conjunction with InkZoneLoop

1 **Filter setting**

Select and modify filter set

2 **Selected filter**

ISO 12647 tolerance

Applied filter set

3 **Delta Density**

DeltaD

any

Tolerance for density. The ink-key is used for the linearization when the calculated density difference is within this tolerance.

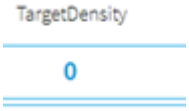
4 **DeltaE of Lab**

DeltaE

5

Tolerance for DeltaE. The ink-key is used for the linearization when the calculated DeltaE is within this tolerance.

5 Target density



Target density. By default, the target density from the measurement file is used. This is valid when the value is set to 0.

6 Modify filter

Currently used filter setup

7 Open filter

Create and modify linearization filter

1 List with all filters

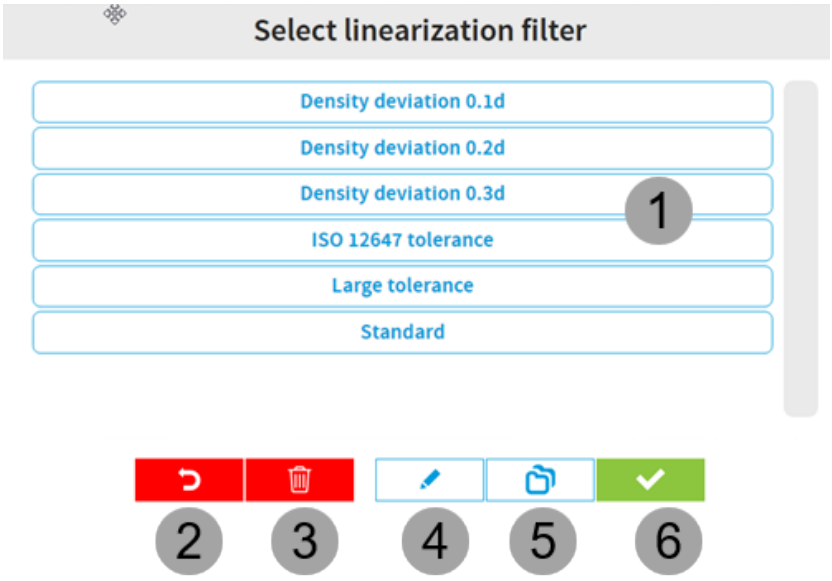
2 Return to main

3 Delete

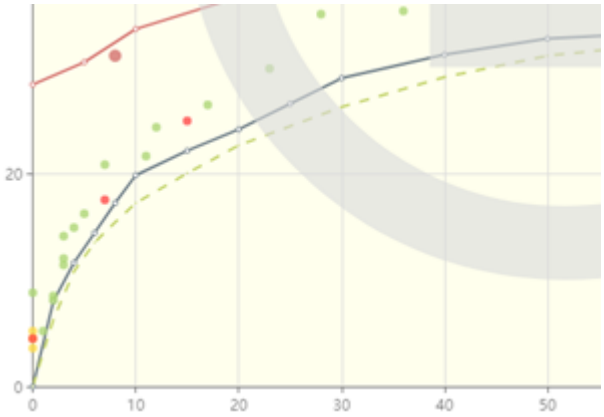
4 Rename

5 Duplicate

6 Confirm change



8 **Calibration by filter**

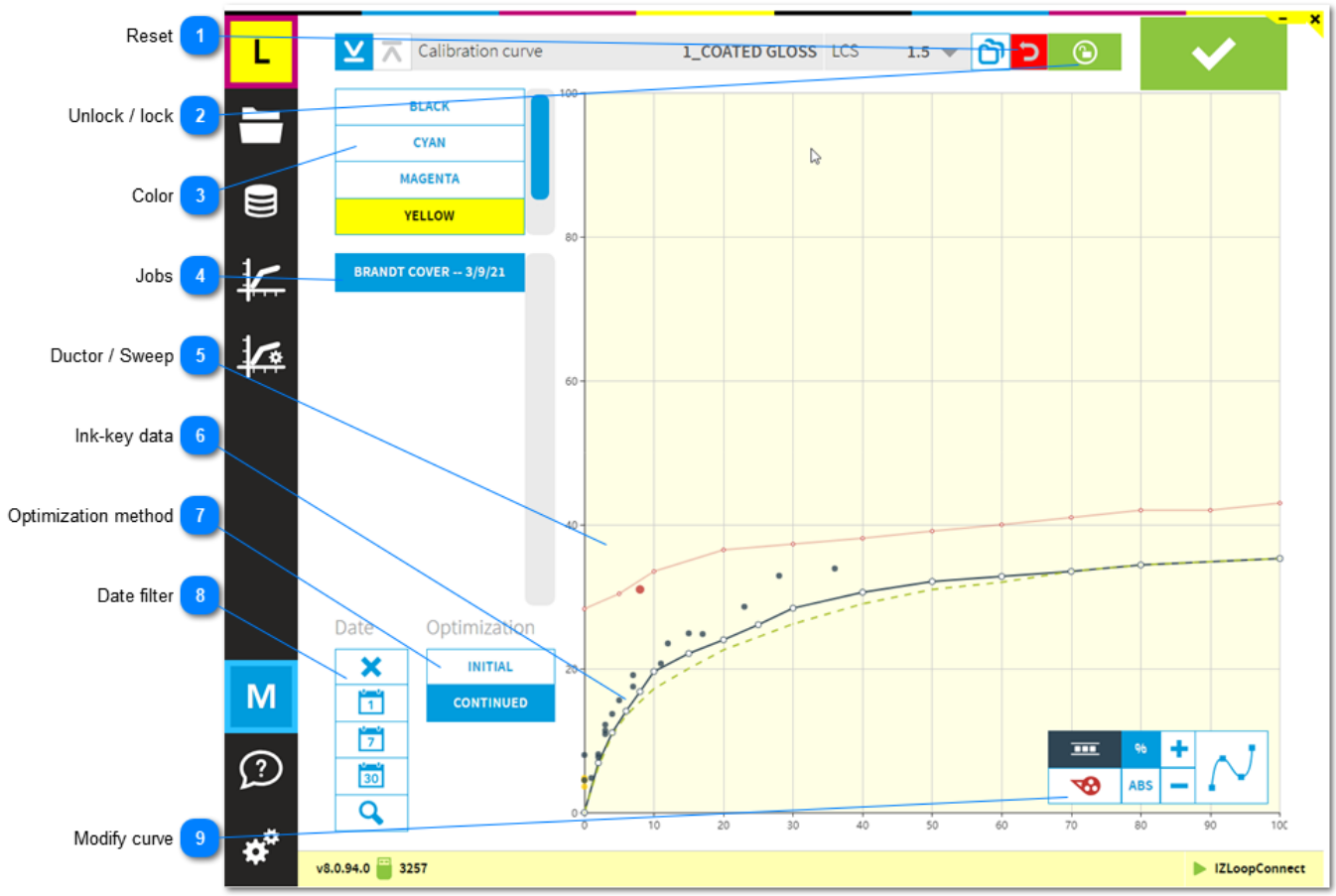


Green dots meet the filter criteria and are used to recalculate the calibration curve whereas a red dot is omitted for the recalculation.

9 **Go to Preview**

1.6.1. Preview

1.6.2. Edit



1 Reset

Reset all previously made changes.

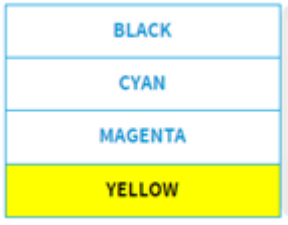
2 Unlock / lock

To modify the calibration curve, press the unlock / lock button.

Press the unlock button to edit calibration curve.
With this icon active, curve editing is not possible.

With this icon active, curve editing is enabled.

3 Color

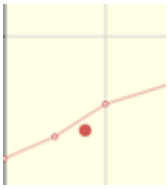


C M Y K colors in calibration curve.

4 Jobs

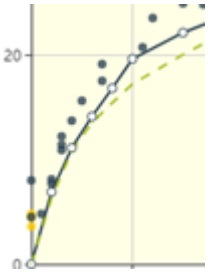
List with jobs used for linearization.

5 Ductor / Sweep



Red curve and dots indicate ductor / sweep data.

6 Ink-key data



Black curve and dots indicate ink-key data.
Green dashed line is the calibration before the linearization.

7 Optimization method

Choose between optimization mode.
Initial: use for the first linearization only
Continued: use after first linearization

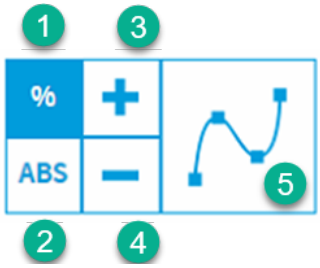
8 Date filter

Select jobs by date and creates a filtered job list:

- Clears all applied filters and all jobs are shown in job list.
- from today.
- from the last week.
- from the last month.
- from a customized time frame with a start and end date.

9 Modify curve

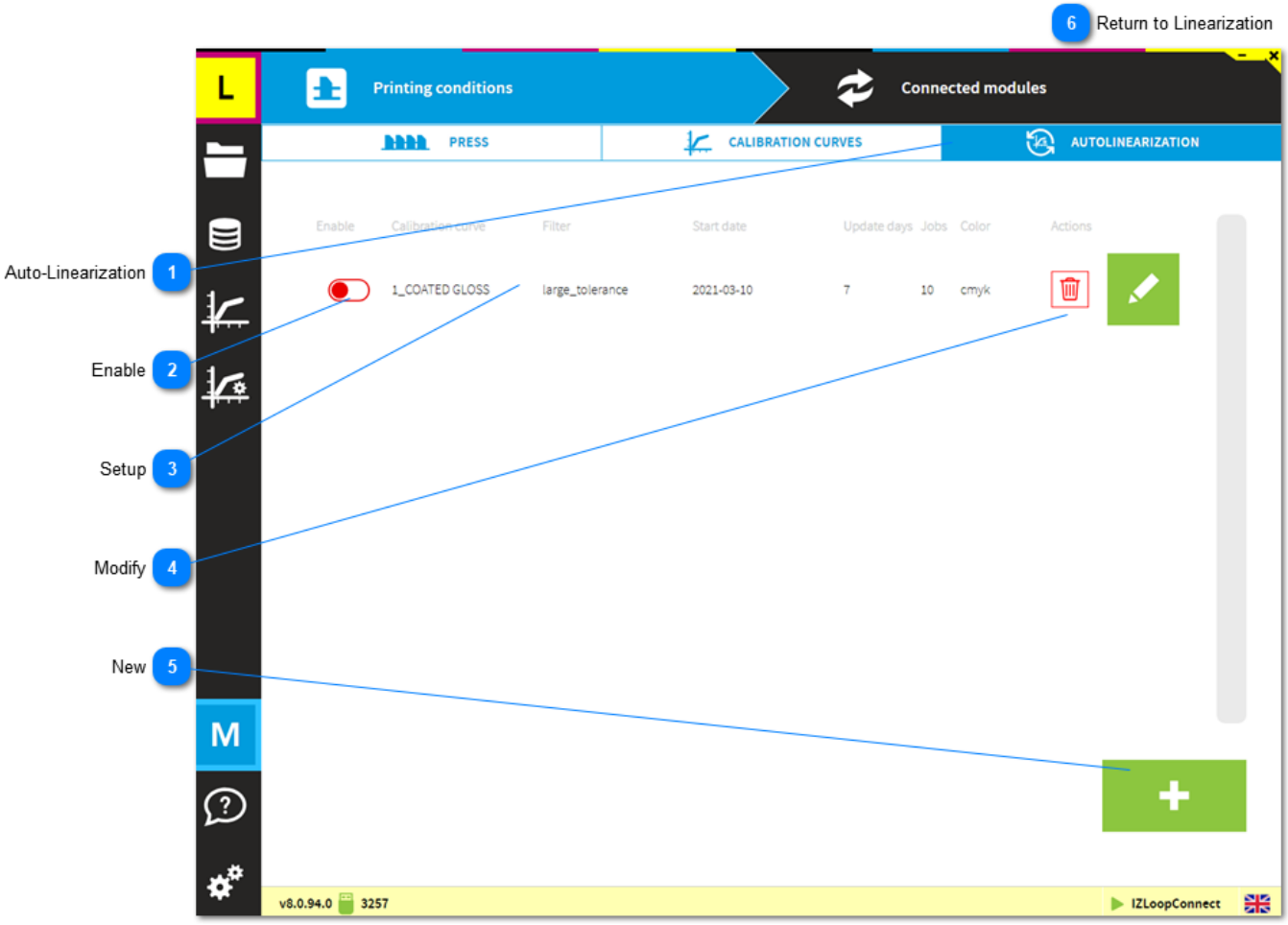
1. Relative change selector
2. Absolute change selector
3. Change positive
4. Change negative
5. Apply curve smoothing



1.6.3. Adjustment

See Calibration curves: 1.5. Calibration curve

1.6.4. Auto-Linearization



1 Auto-Linearization

Menu to access Auto-Linearization

2 Enable

Enable

Enable the auto-linearzation setup here.

3 Setup

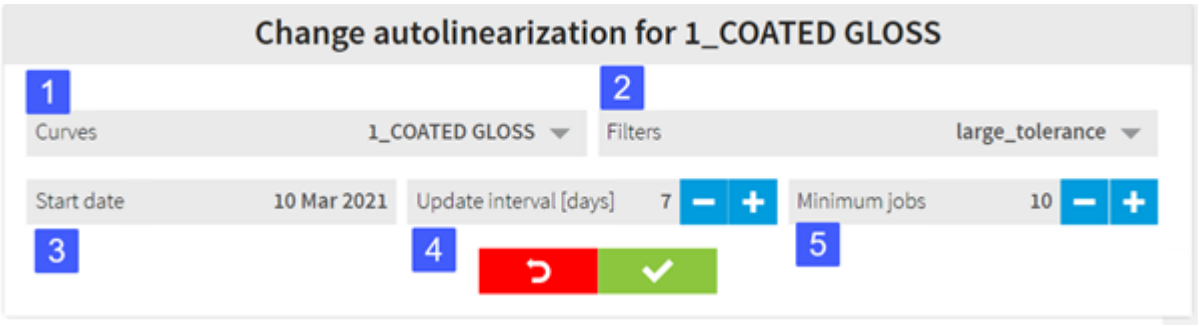
1	Calibration curve	Calibration curve selected for the auto-linearization.
2	Filter	Applied density and deltaE deviation filter set. The filter sets are setup in the linearization menu.
3	Start date	Start of the first auto-linearization cycle
4	Update days	Interval in days
5	Jobs	Minimum jobs required
6	Colors	Applies to CMYK or Spot color calibration curves

4 Modify

Delete or modify the setup

5 **New**

Add an auto-linearization setting



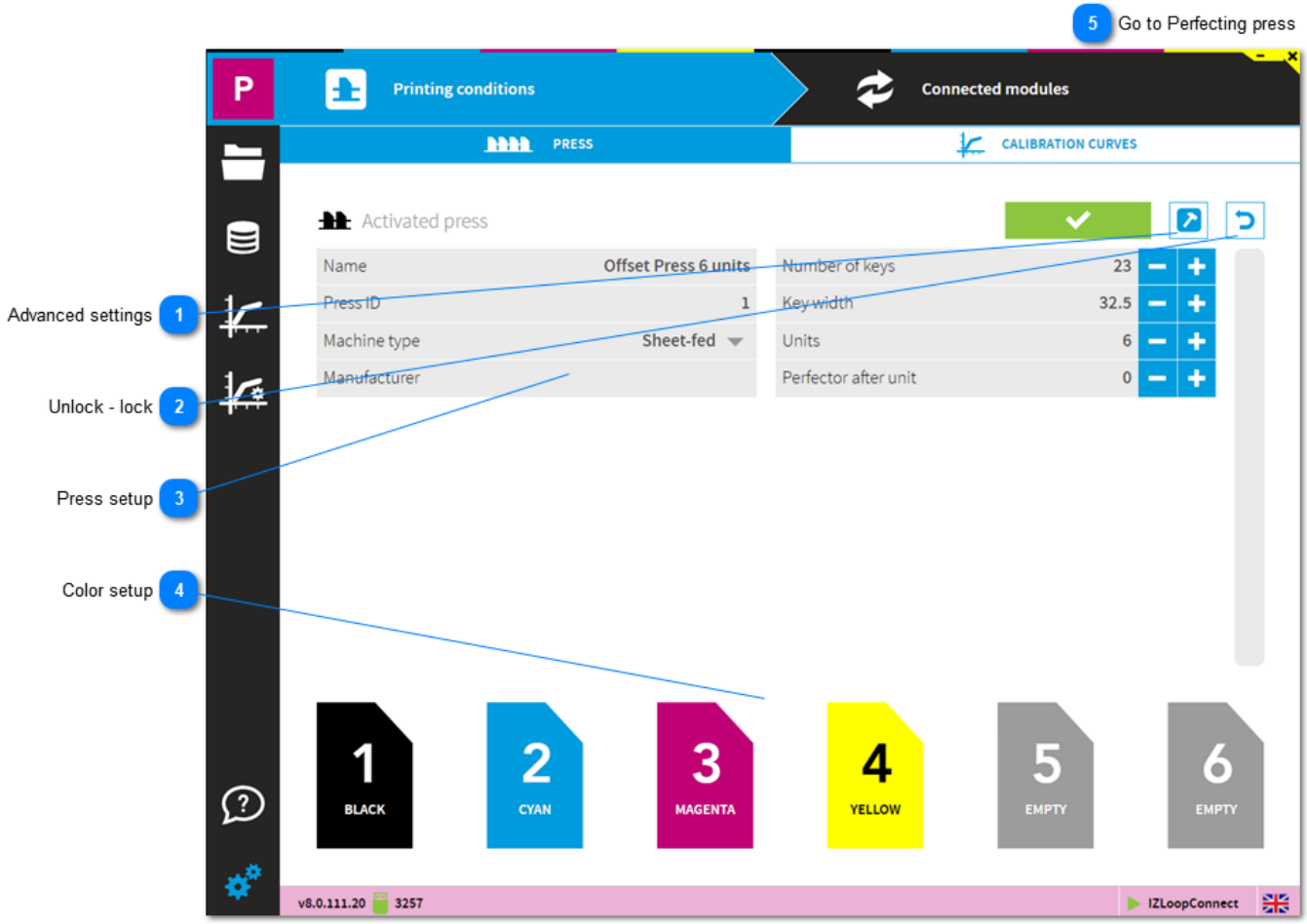
1	Calibration curve	Calibration curve selected for the auto-linearization.
2	Filter	Applied density and deltaE deviation filter set. The filter sets are setup in the linearization menu.
3	Start date	Start of the first auto-linearization cycle
4	Update days	Interval in days
5	Jobs	Minimum jobs required
6	Colors	Applies to CMYK or Spot color calibration curves

6 **Return to Linearization**

1.6. Linearization

1.7. Software setup

1.7.1. Press



1 Advanced settings

See here: 1.7.1.1. Advanced features

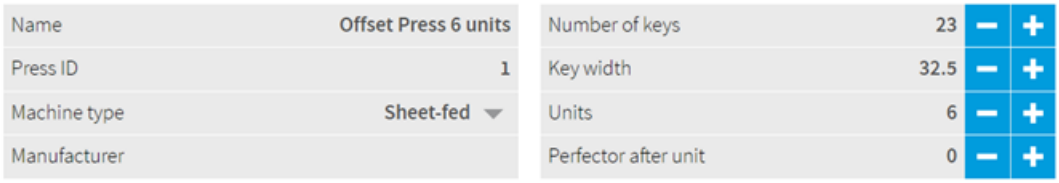
2 Unlock - lock

To modify the press setup, press the unlock button.

When this icon is visible, the press parameter can not be changed. The setup is locked.

1) When this icon is visible, press parameter editing is enabled.
2) Change from here to the advanced press settings.
3) Cancel, all changes are discarded.

3 Press setup



Press machine parameter

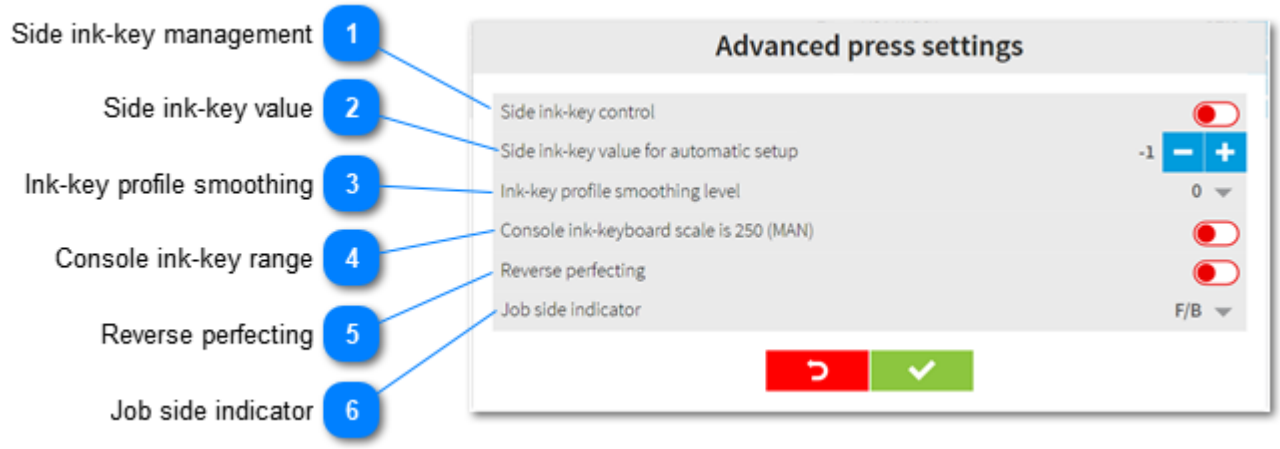
4 Color setup

Default color sequence for K C M Y colors. Change the sequence by clicking on the unit and select a color.

5 Go to Perfecting press

1.7.1.4. Perfecting press

1.7.1.1. Advanced features

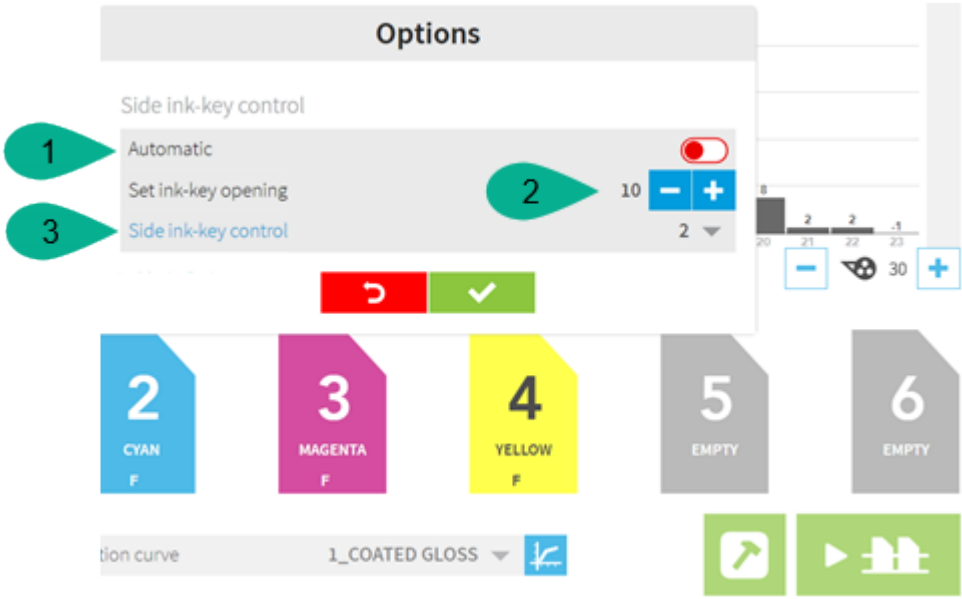


1 Side ink-key management

Side ink-key control

Allows the operator to setup the ink-key opening of the side ink-keys with an arbitrary value.

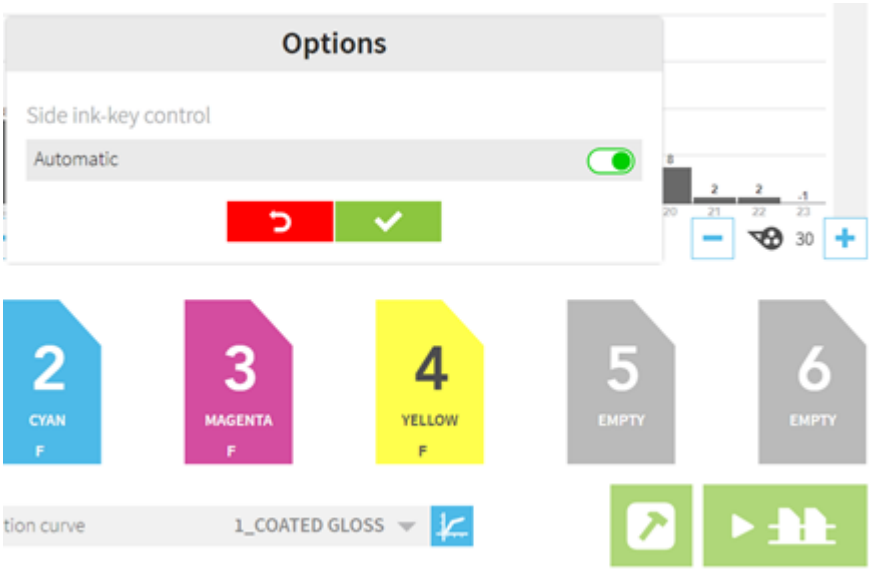
1) Automatic needs to be disabled
2) Define the ink-key opening value
3) Define the number of side keys. E.g. a value 2 sets ink-key nr 1 and 2 plus the last two ink-keys as side ink-keys.



2 Side ink-key value

Side ink-key value for automatic setup

The side ink-keys are automatically set to selected value.
In the press preparation screen, enable through the advanced button, left hand side of the transfer button.



3 Ink-key profile smoothing

Ink-key profile smoothing level

Smoothing is applied to the ink profile.

4 Console ink-key range

Console ink-keyboard scale is 250 (MAN)

Typically, the feature is enabled for MAN consoles where the ink-keys are set between 0 and 250.

5 Reverse perfecting

Reverse perfecting

To assign the F side ink-preset data to the units after the perfector.

6 Job side indicator

Job side indicator

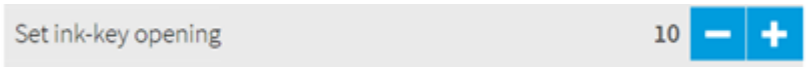
Change the indicator of the front and back side:
F/B
A/B

1.7.1.2. Side ink-key management

1 Automatic

When enabled, the side keys are defined by the zero ink coverage on both sides. These keys are set with the value defined in the press setup.

2 Side ink-key value

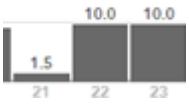


Setup the fixed value for the defined side ink-keys. The value 0 closes the side ink-keys.

3 Define side ink-keys

Define the number of ink-keys on the left and right side to be treated as side ink-keys.

4 Ink-key treated - right side



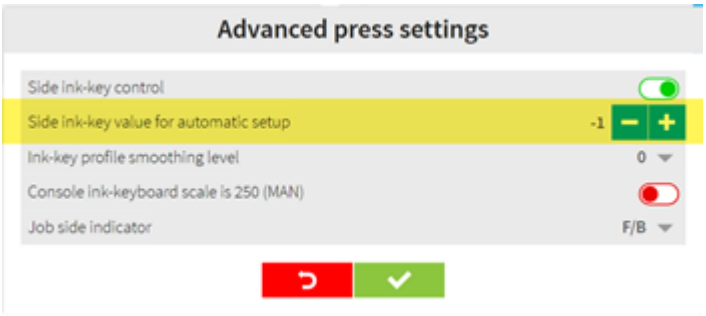
Side ink-key on the right side. In this sample key nr22 and nr23 are set to 0.

5 Ink-key treated - left side

Side ink-key on the left side. In this sample key nr1 and nr2 are set to 0.

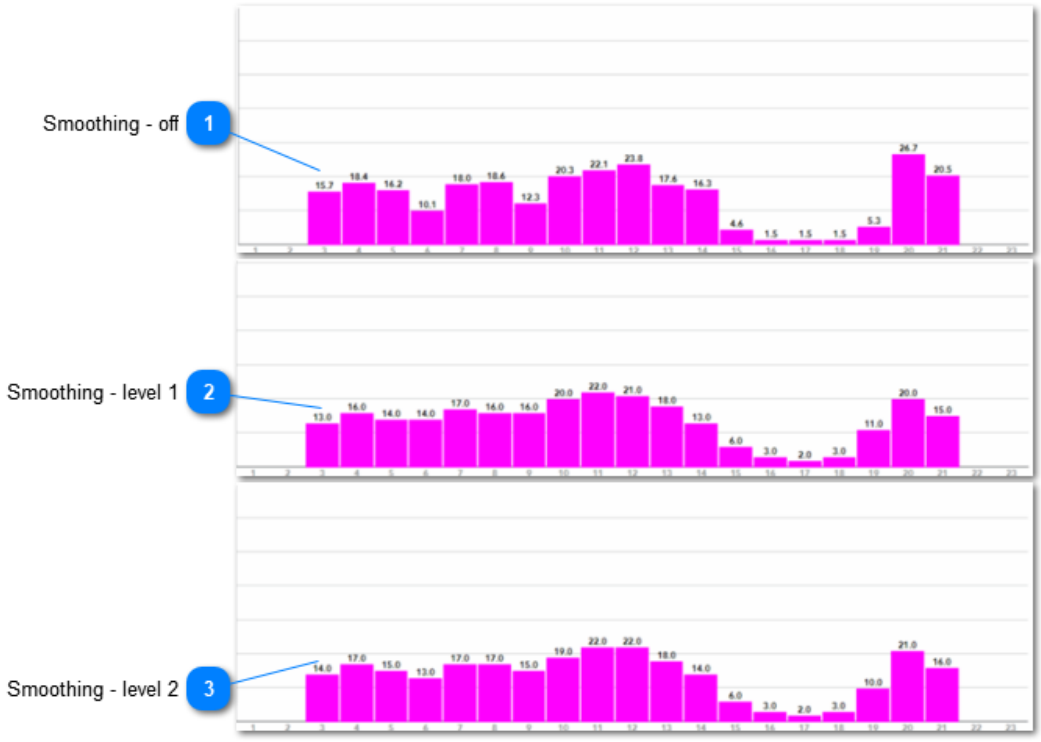
6 Advanced setting

Select the advanced setting and set the side ink-keys.
See here: 1.7.1.1. Advanced features

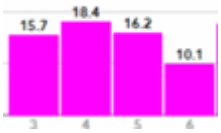


1.7.1.3. Ink-key profile smoothing

When smoothing is active, the ink-key value is adjusted with the values from the neighbor ink-keys.
See here the same job with different smoothing levels applied:

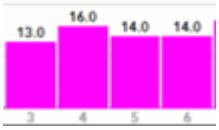


1 Smoothing - off



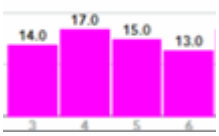
No smoothing is applied. Ink-key values are calculated by the calibration curve.

2 Smoothing - level 1



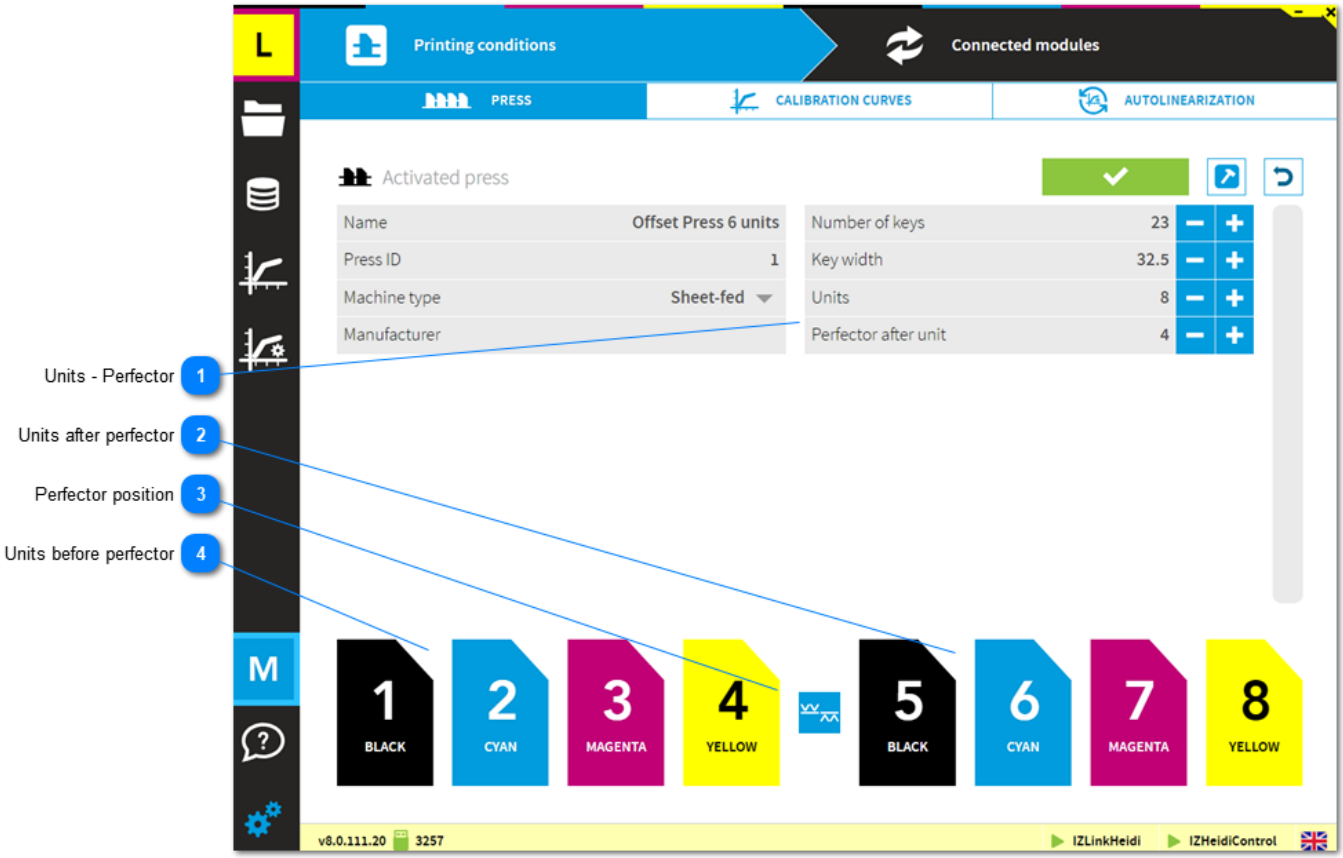
Smoothing level 1. Ink-key values are calculated by the calibration curve and the neighbor ink-keys. With level 1, the influence of the neighbor ink-keys is small.

3 Smoothing - level 2



Smoothing level 2. Ink-key values are calculated by the calibration curve and the neighbor ink-keys. With level 2, the influence of the neighbor ink-keys is medium.

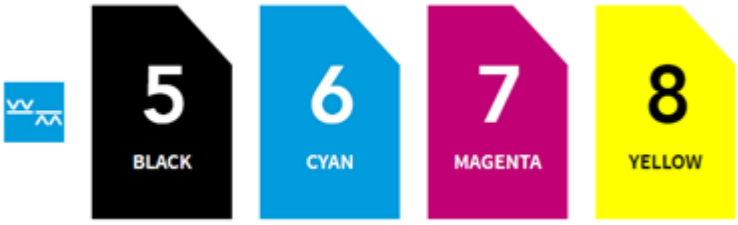
1.7.1.4. Perfecting press



1 Units - Perfector

Units and perfector setup

2 Units after perfector



Print units after perfector

3 Perfector position

Perfector position. Click on the perfector icon to change from perfecting to none perfecting setup and vice versa.

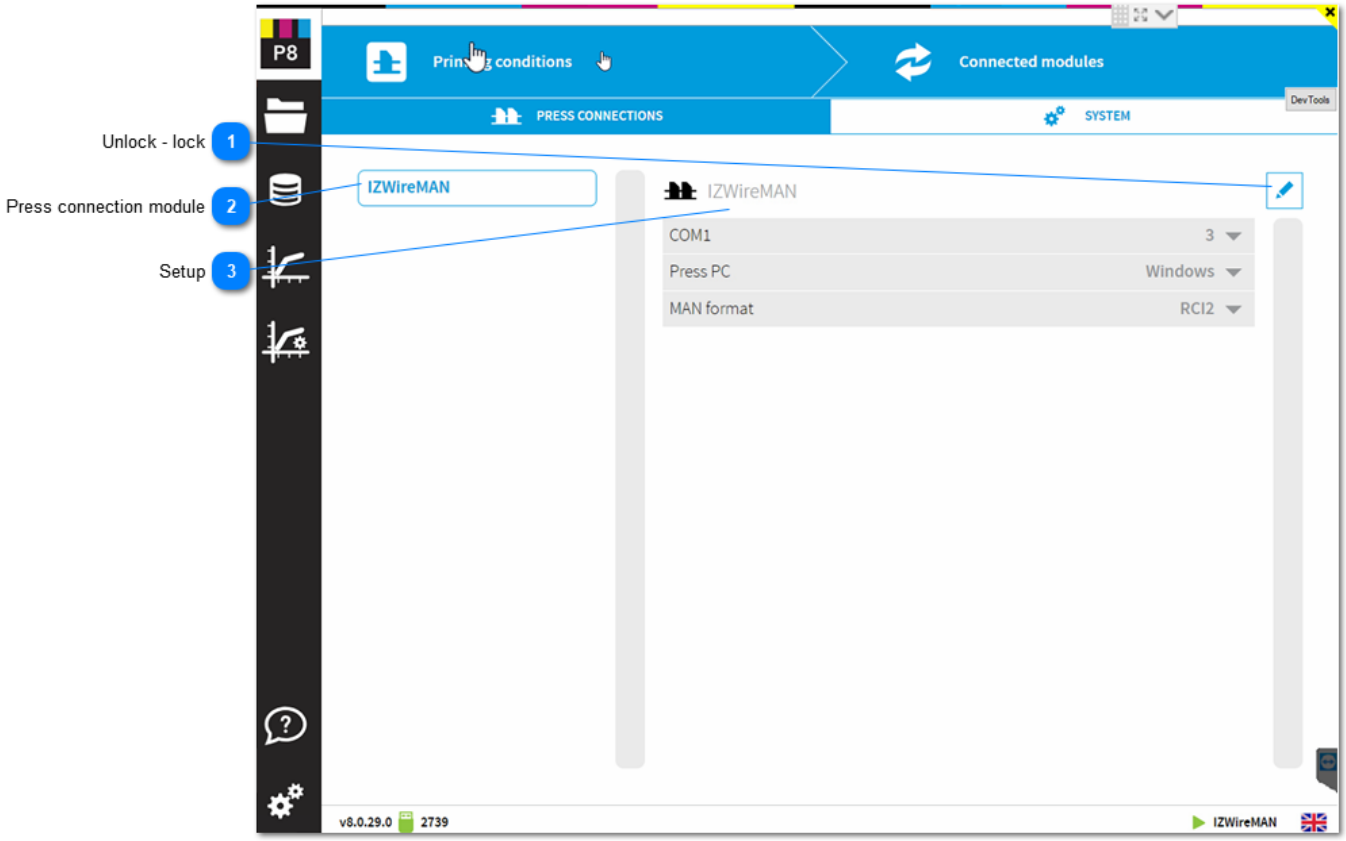
None perfecting

Perfecting

4 Units before perfector

Print units before perfector.

1.7.2. Press connection



1 Unlock - lock

Press the unlock button to modify the press connection parameters.

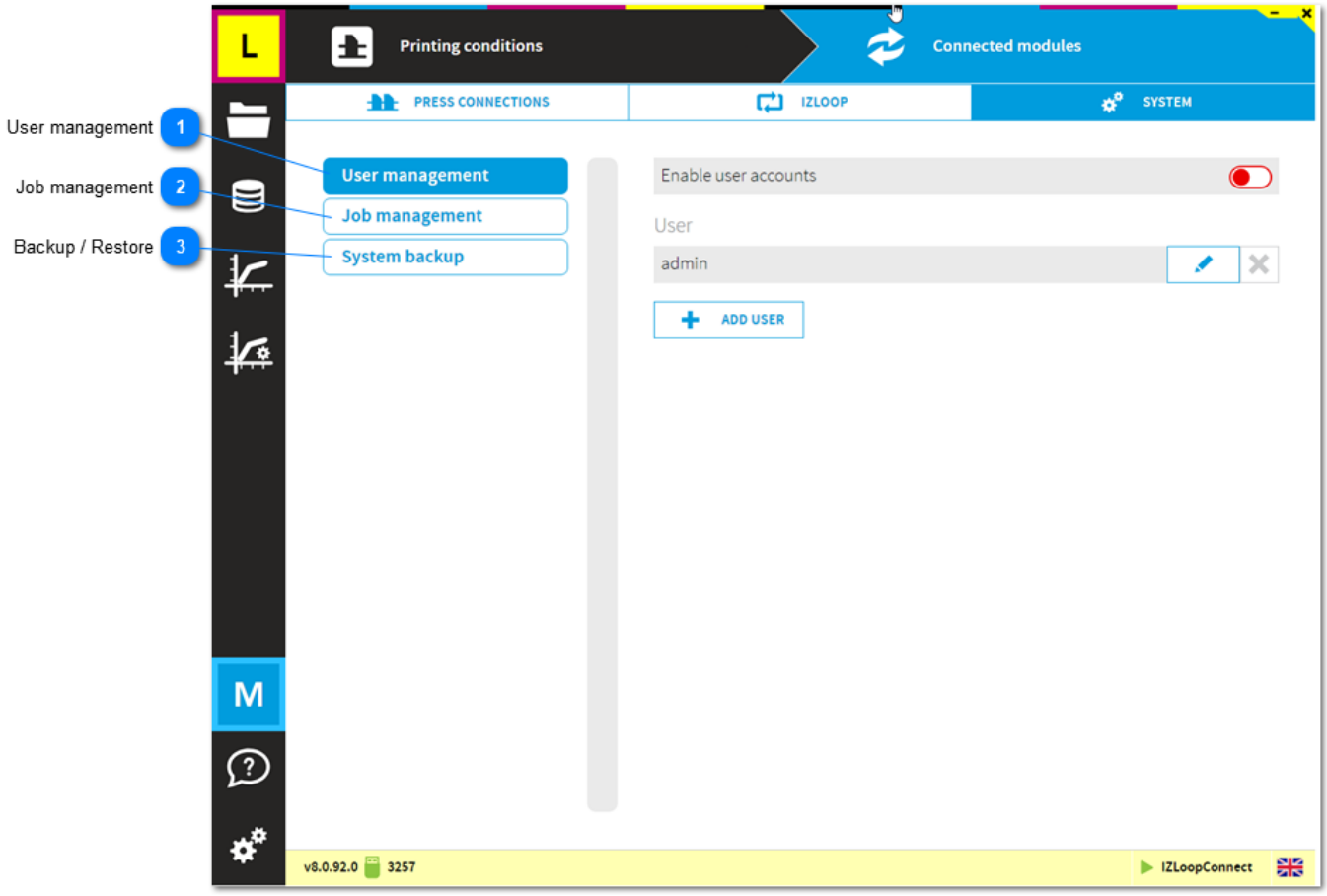
2 Press connection module

Active press connection module validated by the purchased InkZone license.

3 Setup

Press connection module. The setup is according to the press console, the press connection module and the PC configuration.

1.7.3. System



1 User management

User management

Activate user management from here. Any created user does not get access to the software configuration pages nor the to calibration curve setup.

1.7.3.1. User management

2 Job management

Job management

Limit printed jobs to days: jobs are automatically removed from the printed job list when older than the setup value

Linearization jobs limit: linearization jobs are automatically removed when exceeding the limit value where oldest ones are removed.

1.7.3.2. Job management

3 Backup / Restore

System backup

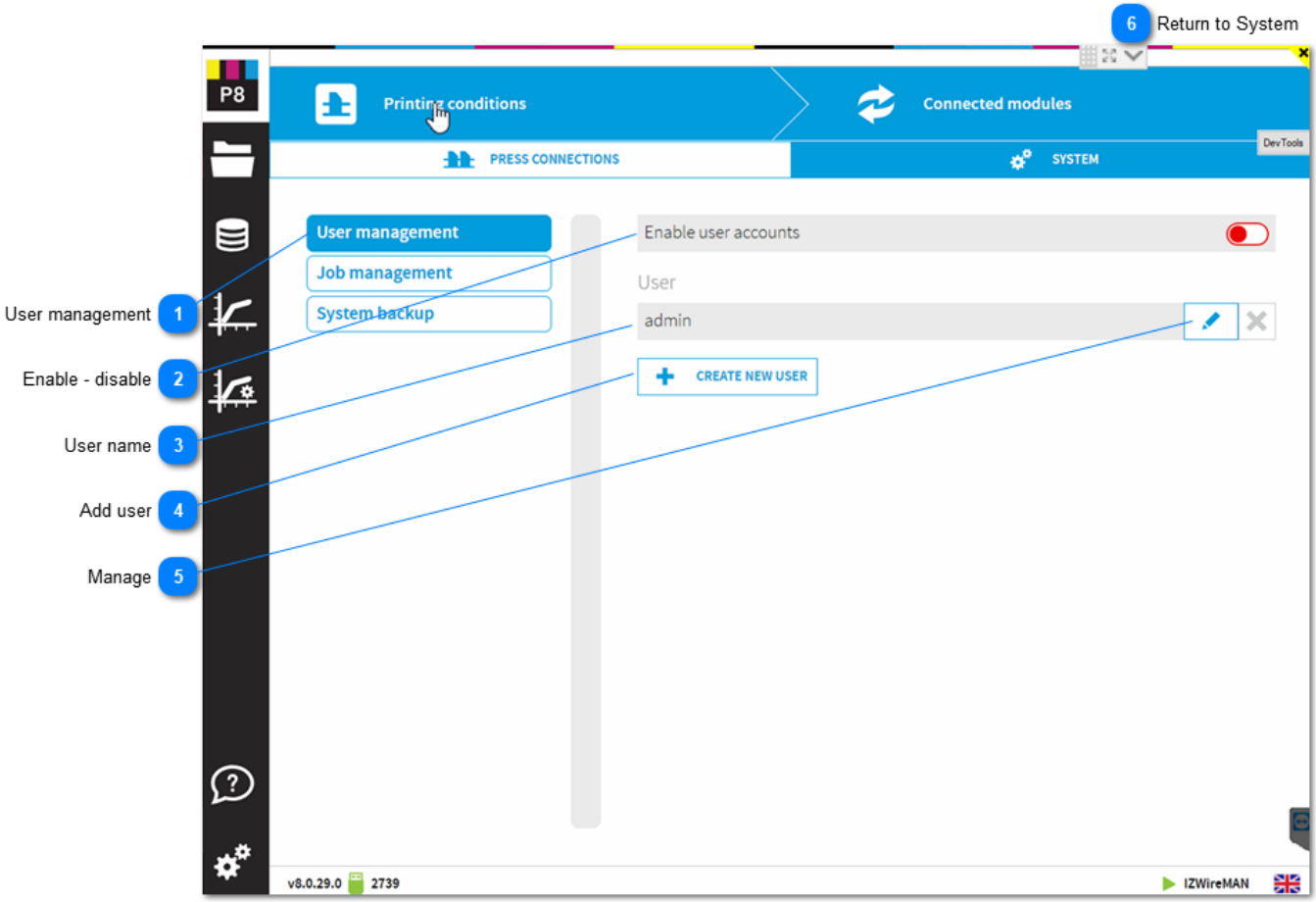
Backup and restore the system setup.

The backup data is stored into the local database and to a ZIP archive file.

Copy the ZIP file to a safe place in order to restore the system in case of computer malfunction.

1.7.3.3. System backup

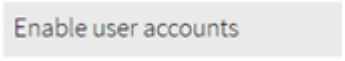
1.7.3.1. User management



1 User management

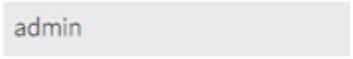
Select user management.

2 Enable - disable



Enable user management here.
When enabled, only the administrator user , here called admin, has the rights to modify the software configuration and calibration curves.

3 User name



User name

4 Add user

Add a new user.

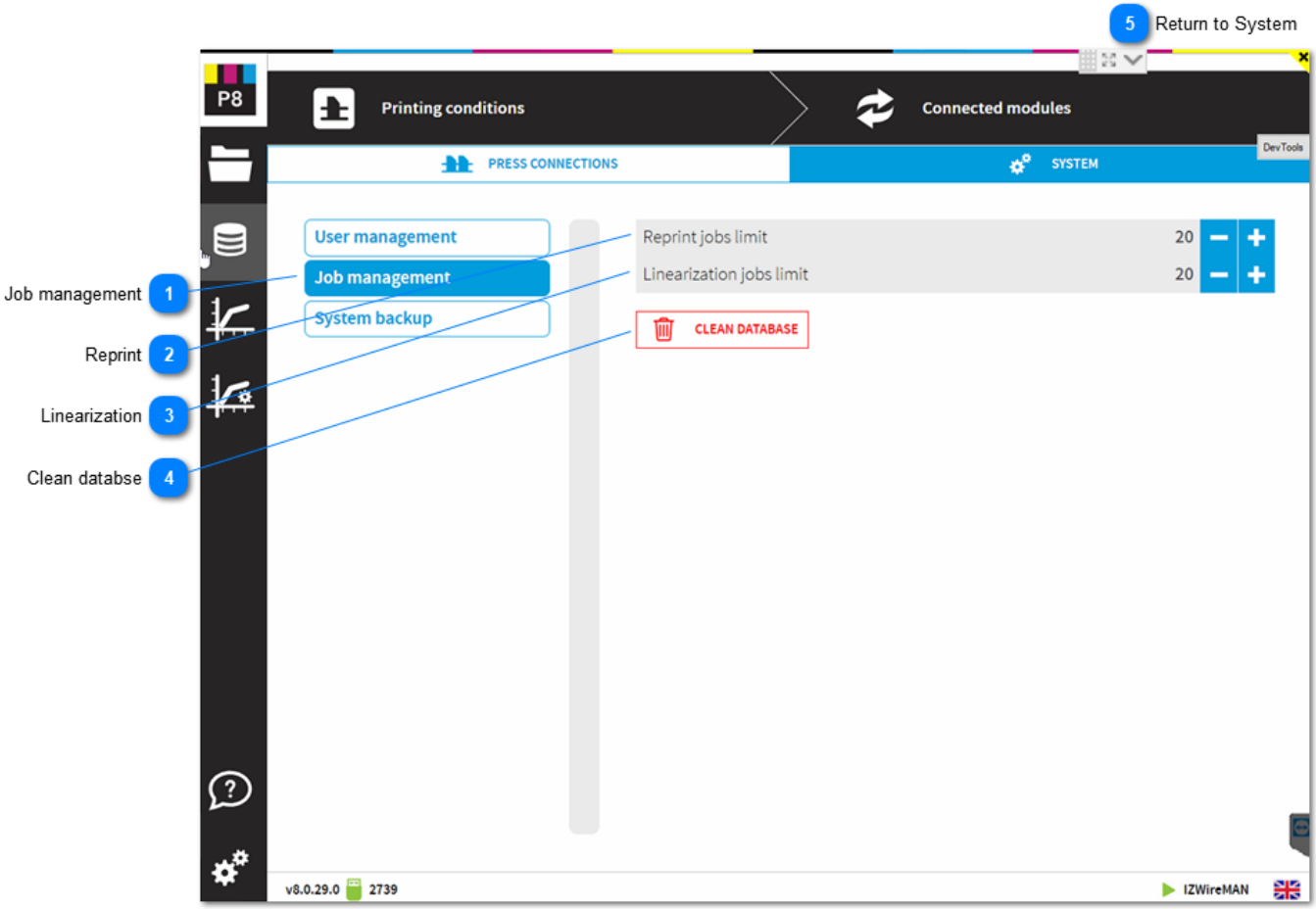
5 **Manage**

Change password or delete user.

6 **Return to System**

1.7.3. System

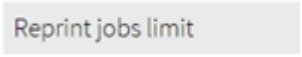
1.7.3.2. Job management



1 Job management

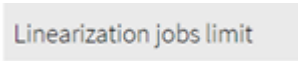
Select job management.

2 Reprint



Limit the number of reprint jobs. The older jobs are automatically deleted.

3 Linearization



Limit the number of linearization jobs. The older jobs are automatically deleted.

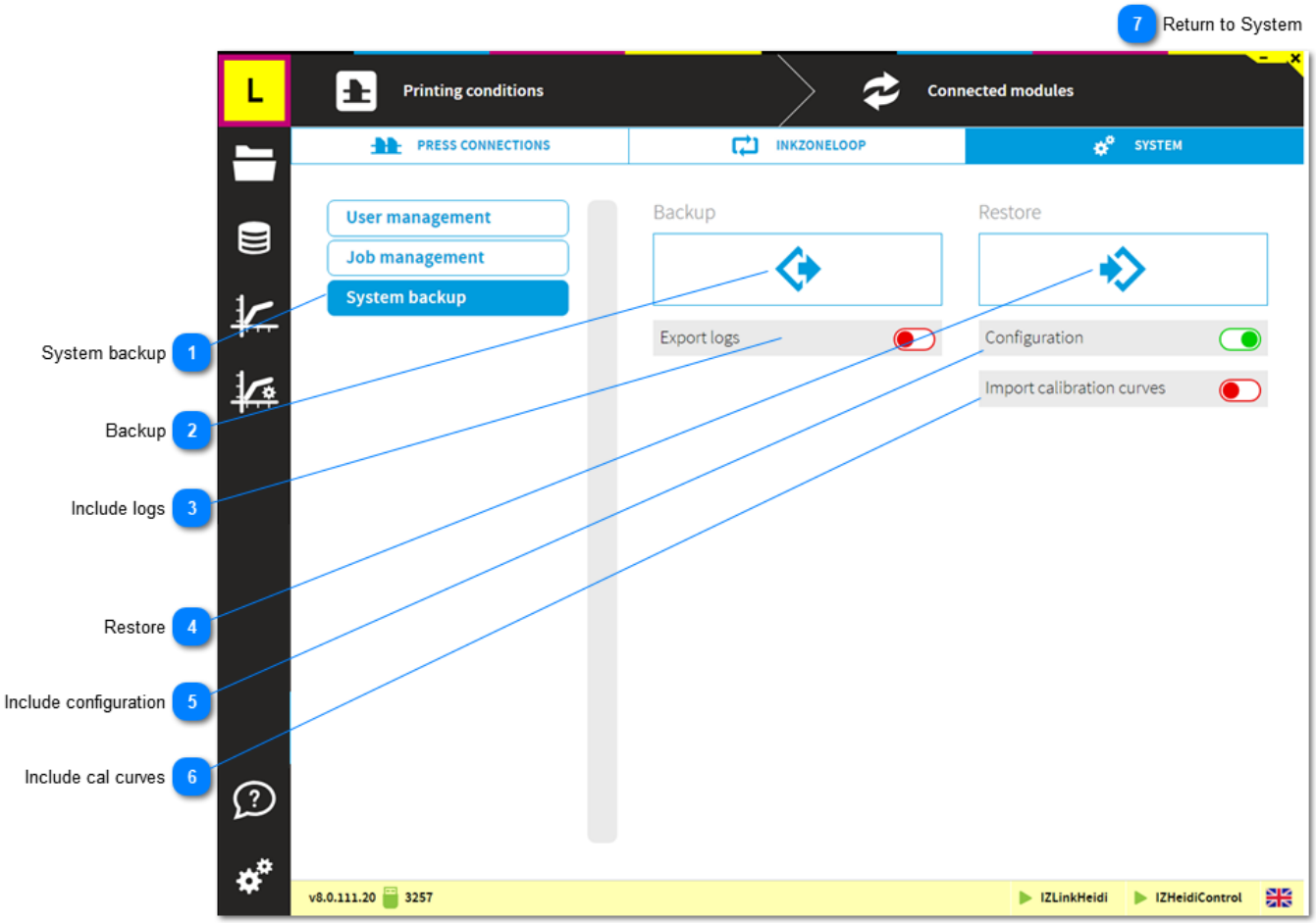
4 Clean databse

Jobs marked as deleted are permanently deleted from the database.

5 Return to System

1.7.3. System

1.7.3.3. System backup



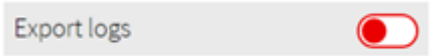
1 System backup

Select backup functions.

2 Backup

Create a backup of all the settings including press parameter, press connection setup and the calibration curves.

3 Include logs



It is useful to include log data for troubleshooting. Enable it from here.

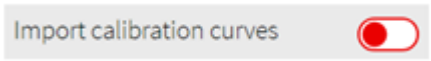
4 Restore

Restore a back. Select below if it includes the calibration curve or generally if it includes the configuration.

5 Include configuration

Enable to restore all the configuration parameters.

6 Include cal curves

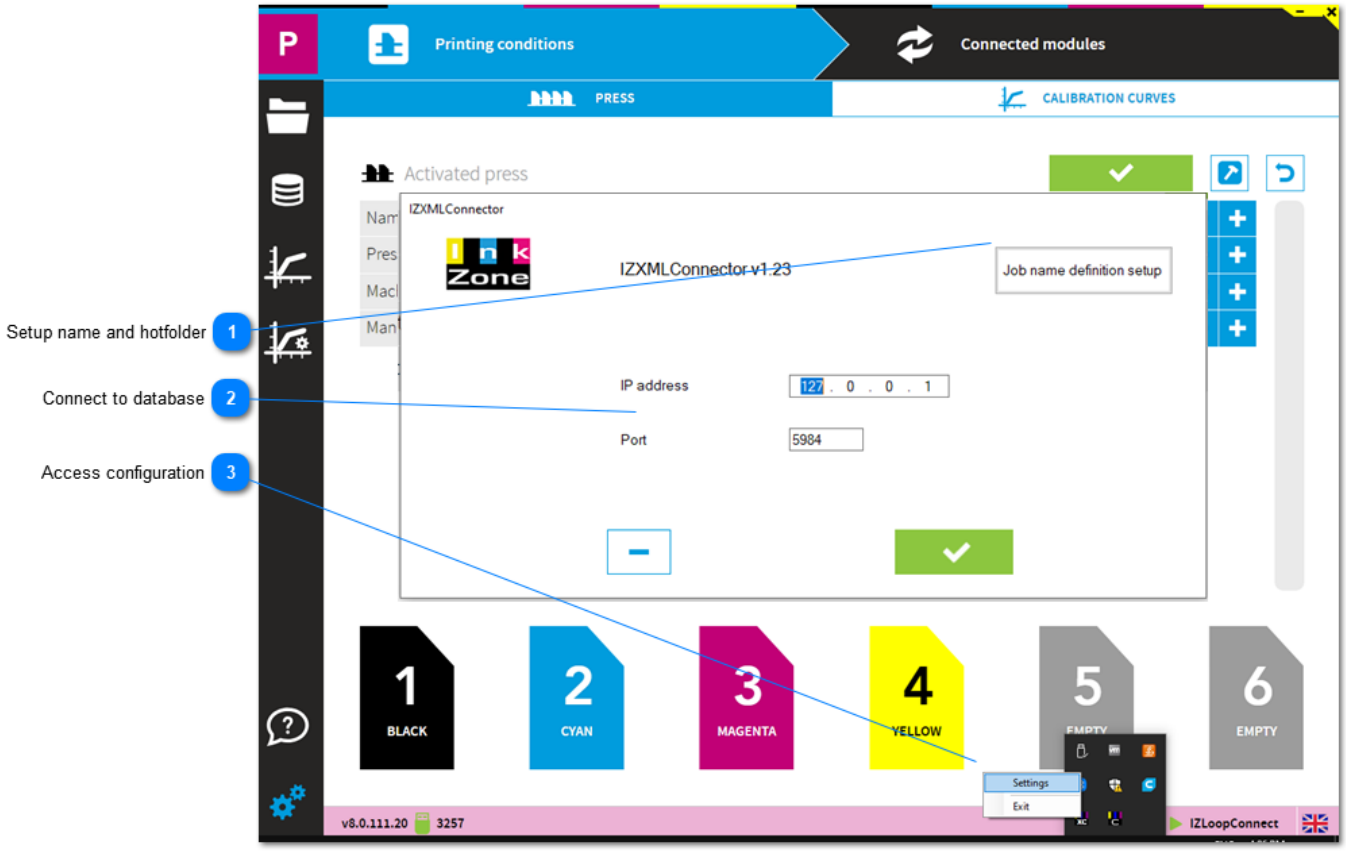


Enable to restore the calibration curves from the backup data.

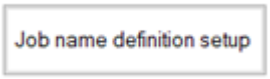
7 Return to System

1.7.3. System

1.7.3.4. XML Connector - Prepress connection



1 Setup name and hotfolder



See here: 1.7.3.4.1. Configuration

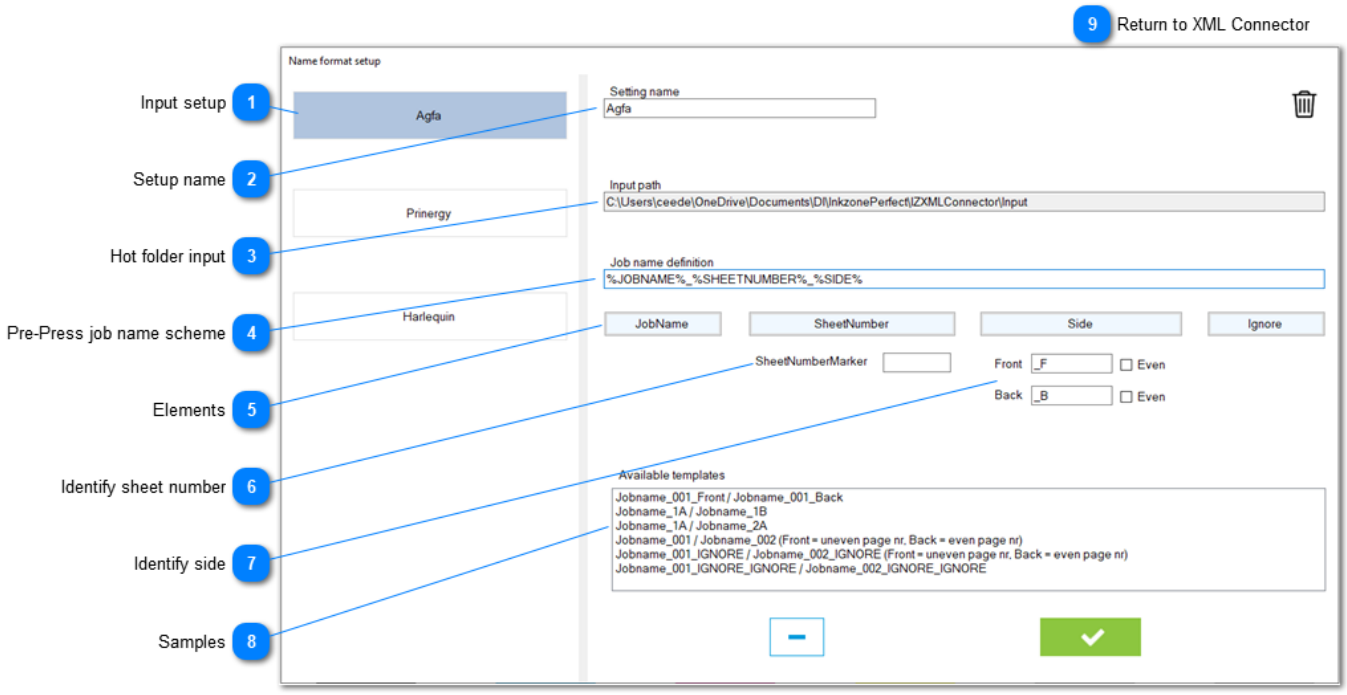
2 Connect to database

Configure the IP and port address of the PC running the database couchDB.
Usually, the job database is on the local computer with the IP 127.0.0.1 and port address 5984.

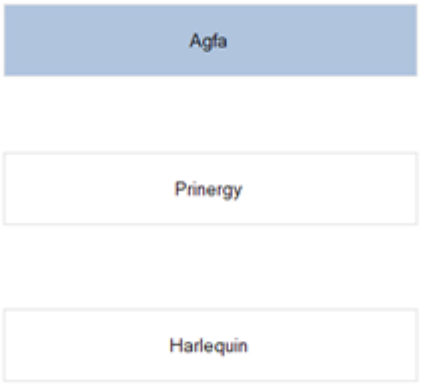
3 Access configuration

Right click on XMLConnector icon in program tray and select the menu entry “settings”.

1.7.3.4.1. Configuration



1 Input setup



Configure up to 3 different pre-press input locations and their pre-press job name scheme.

2 Setup name

Set a name for the setup, e.g. the Pre-Press workflow system.

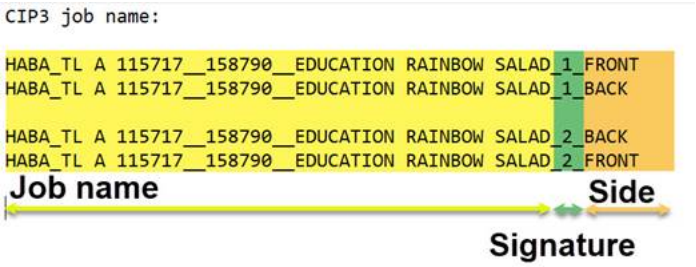
3 Hot folder input

Location of the hotfolder for the XML / PNG data.

4 Pre-Press job name scheme

Job name definition
%JOBNAME%_%SHEETNUMBER%_%SIDE%

Setup the job name format with the indicator for job name, sheet number and sheet side.
Each element is separated with an underline, like "_".
Sample %JOBNAME%_%SHEETNUMBER%_%SIDE%



5 Elements

JobName | SheetNumber | Side | Ignore

Add from the element for the job name scheme.

6 Identify sheet number

SheetNumberMarker

In some cases, the sheet number information starts with string or a char, like "P001", "P002" or "FOLD1", "FOLD2". In this case add this part here. With the example before, add "P" or "FOLD".

7 Identify side

Front _F ☐ Even

Back _B ☐ Even

Side indicator. It could be "_F / _B" or "_Front / _Back" or "A / B" etc.
When there is no such indicator but the sheet number identifies the side, select from the check box either %Even% or %Uneven% for the sides.

8 Samples

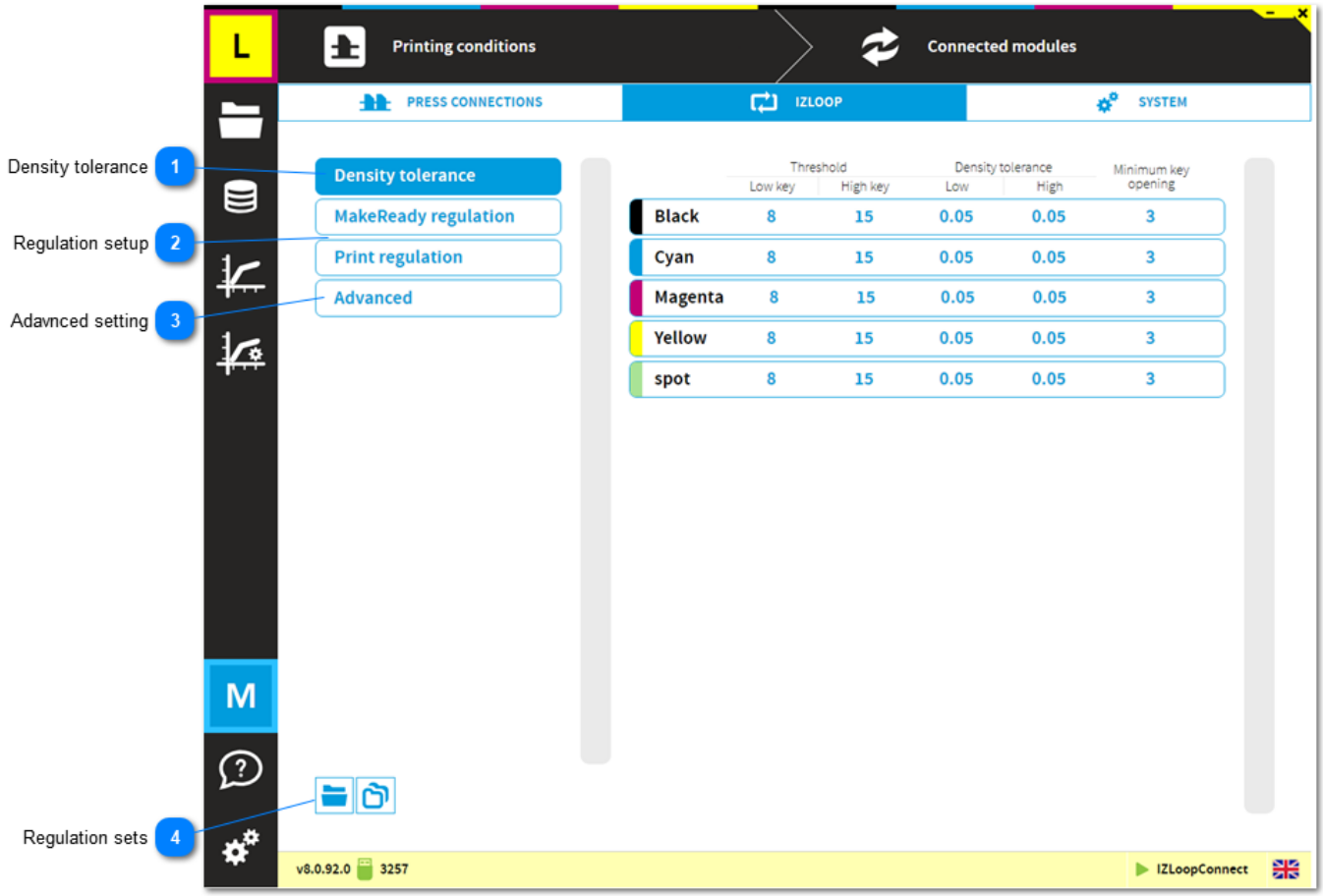
Jobname_001_Front / Jobname_001_Back
Jobname_1A / Jobname_1B
Jobname_1A / Jobname_2A
Jobname_001 / Jobname_002 (Front = uneven page nr, Back = even page nr)
Jobname_001_IGNORE / Jobname_002_IGNORE (Front = uneven page nr, Back = even page nr)
Jobname_001_IGNORE_IGNORE / Jobname_002_IGNORE_IGNORE

A list with samples. Select one with a click on the name.

9 Return to XML Connector

1.7.3.4. XML Connector - Prepress connection

1.7.4. InkZoneLoop settings



1 Density tolerance

Density tolerance

Setup for the density tolerances from scan measurement

2 Regulation setup

MakeReady regulation

Print regulation

Color-control setup for regulation in mode MakeReady and Print

3 Adavnced setting

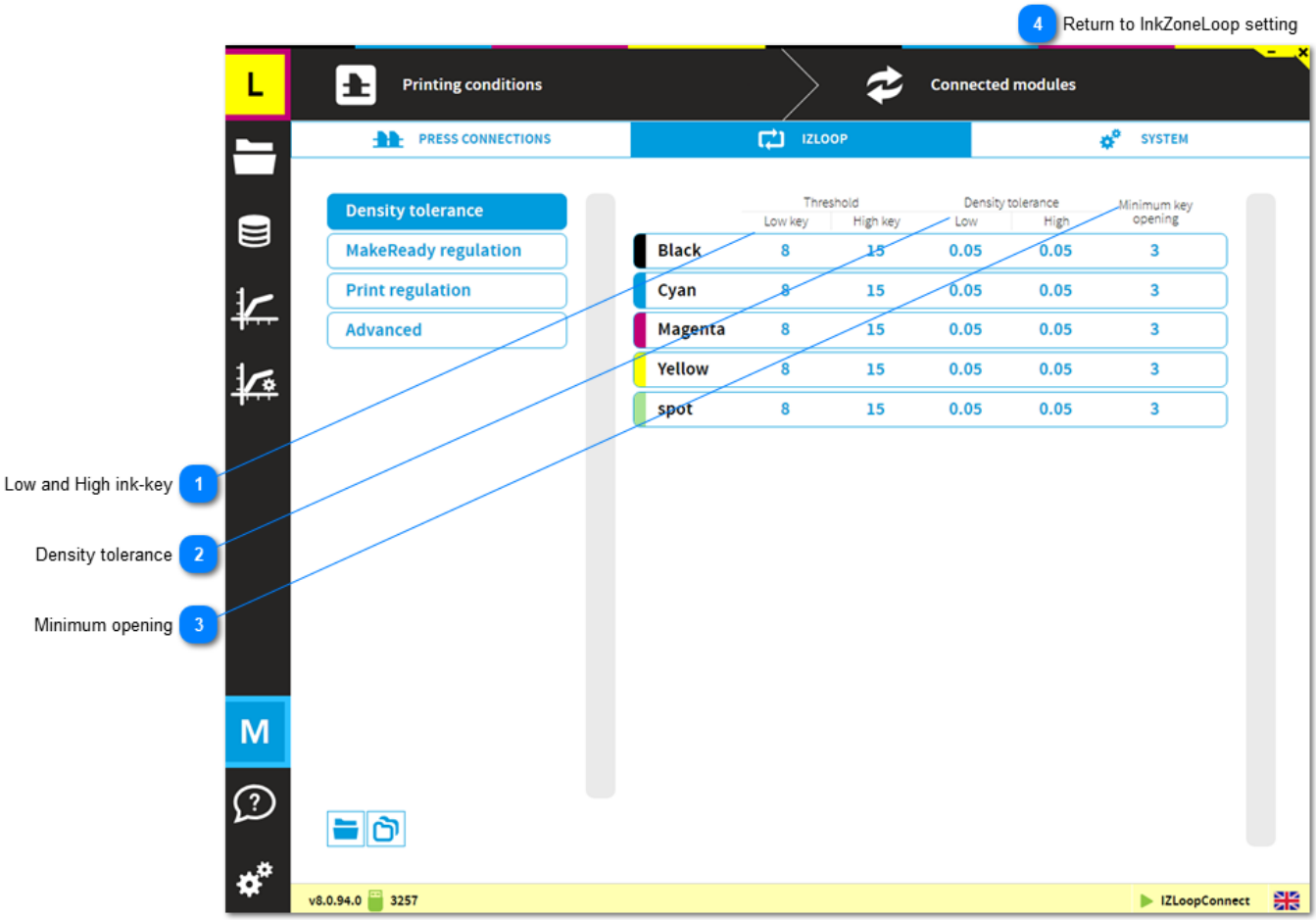
Advanced

Further settings

4 Regulation sets

Access and manage the InkZoneLoop regulation sets.

1.7.4.1. Density tolerance



1 Low and High ink-key

Threshold	
Low key	High key
8	15

Definition for Low-key , High-key and transition ink-key range. Each range holds the parameters for:

- Density tolerance
- Minimum ink key opening
- Regulation constant MakeReady Mode
- Regulation constant Print Mode
- Over inked compensation MakeReady Mode
- Over inked compensation Print Mode

2 Density tolerance

Density tolerance	
Low	High
0.05	0.05

When the measured density is out of the density tolerance value, InkZoneLoop applies the correction to reach the target density.
Therefore, an ink-key within the tolerance is not regulated.

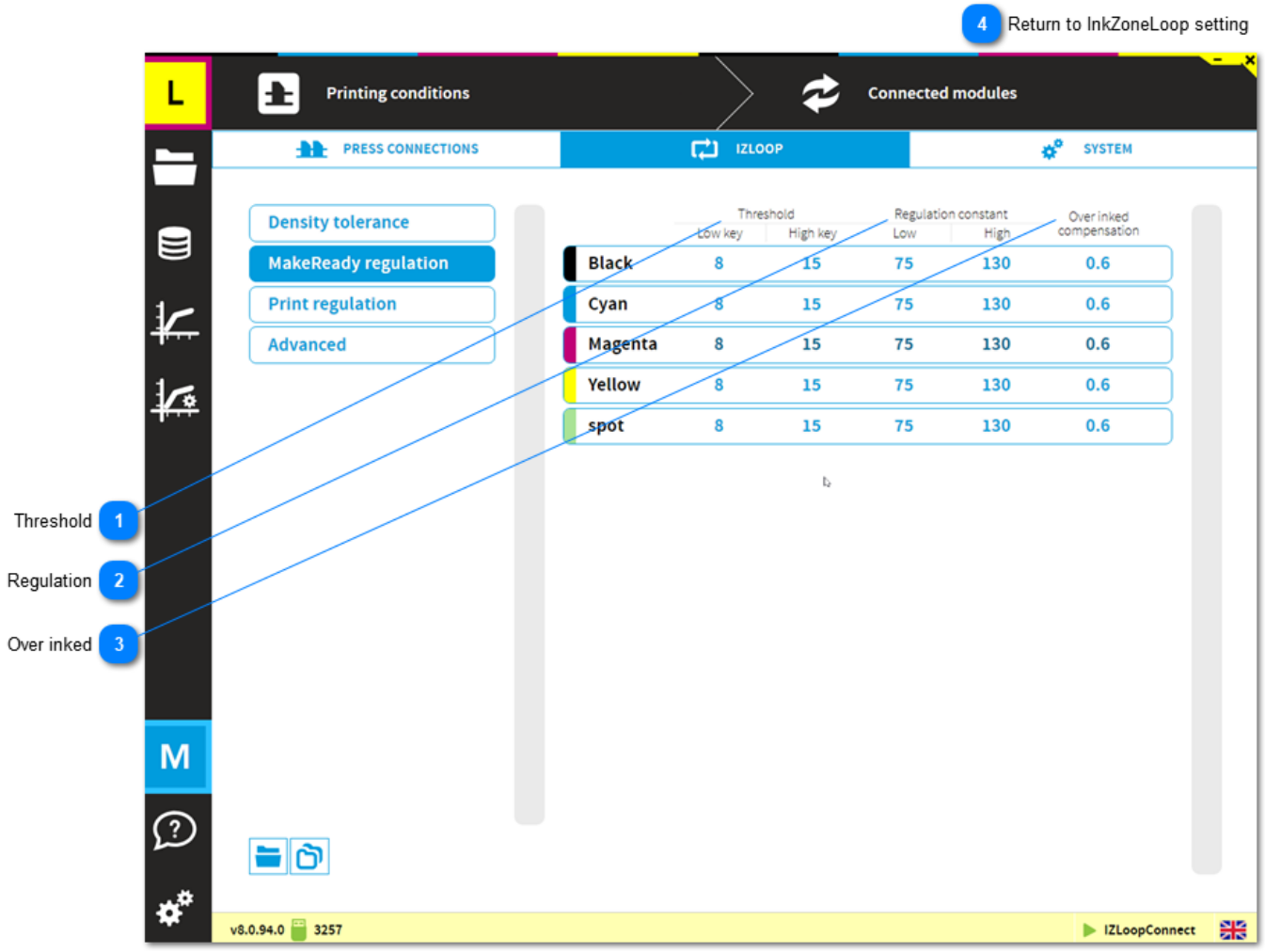
3 Minimum opening

Minimum opening of an ink-key during color-control. The opening value is respected even though the density for this ink-key is too high (regulation down).

4 Return to InkZoneLoop setting

1.7.4. InkZoneLoop settings

1.7.4.2. MakeReady regulation



1 Threshold

Threshold	
Low key	High key
8	15

Definition for Low-key , High-key and transition ink-key range. Each range holds the parameters for:

- Density tolerance
- Minimum ink key opening
- Regulation constant MakeReady Mode
- Regulation constant Print Mode
- Over inked compensation MakeReady Mode
- Over inked compensation Print Mode

2 Regulation

Regulation constant	
Low	High
75	130

A higher regulation value results in a more aggressive ink-key regulation.
Applies when job is in make-ready mode.

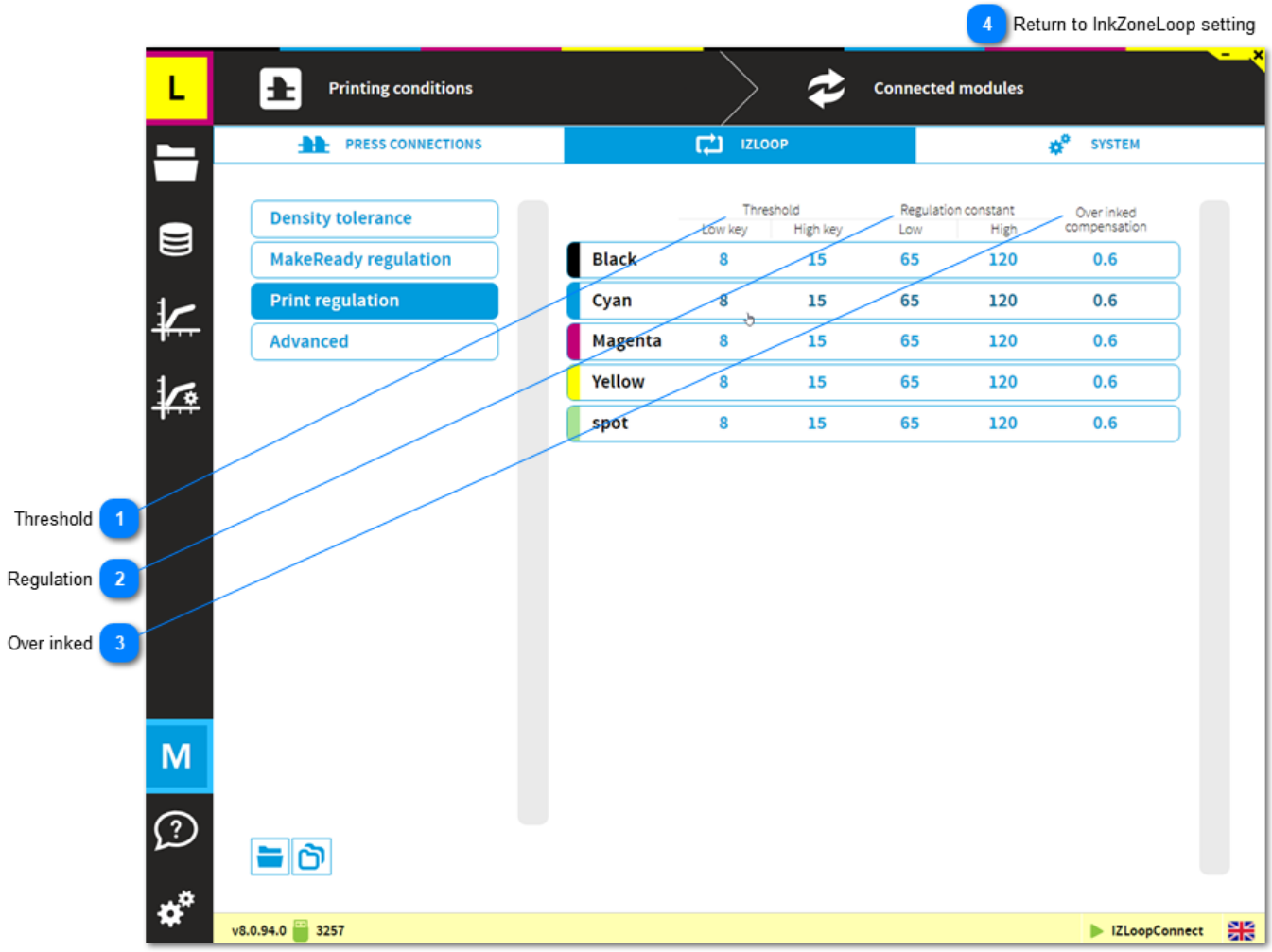
3 Over inked

A value lower than 1 applies smoother regulation to over-inked ink-keys to avoid oscillation.
Applies when job is in make-ready mode.

4 Return to InkZoneLoop setting

1.7.4. InkZoneLoop settings

1.7.4.3. Print regulation



1 Threshold

Threshold	
Low key	High key
8	15

Definition for Low-key , High-key and transition ink-key range. Each range holds the parameters for:

- Density tolerance
- Minimum ink key opening
- Regulation constant MakeReady Mode
- Regulation constant Print Mode
- Over inked compensation MakeReady Mode
- Over inked compensation Print Mode

2 Regulation

Regulation constant	
Low	High
65	120

A higher regulation value results in a more aggressive ink-key regulation.
Applies when job is in production mode.

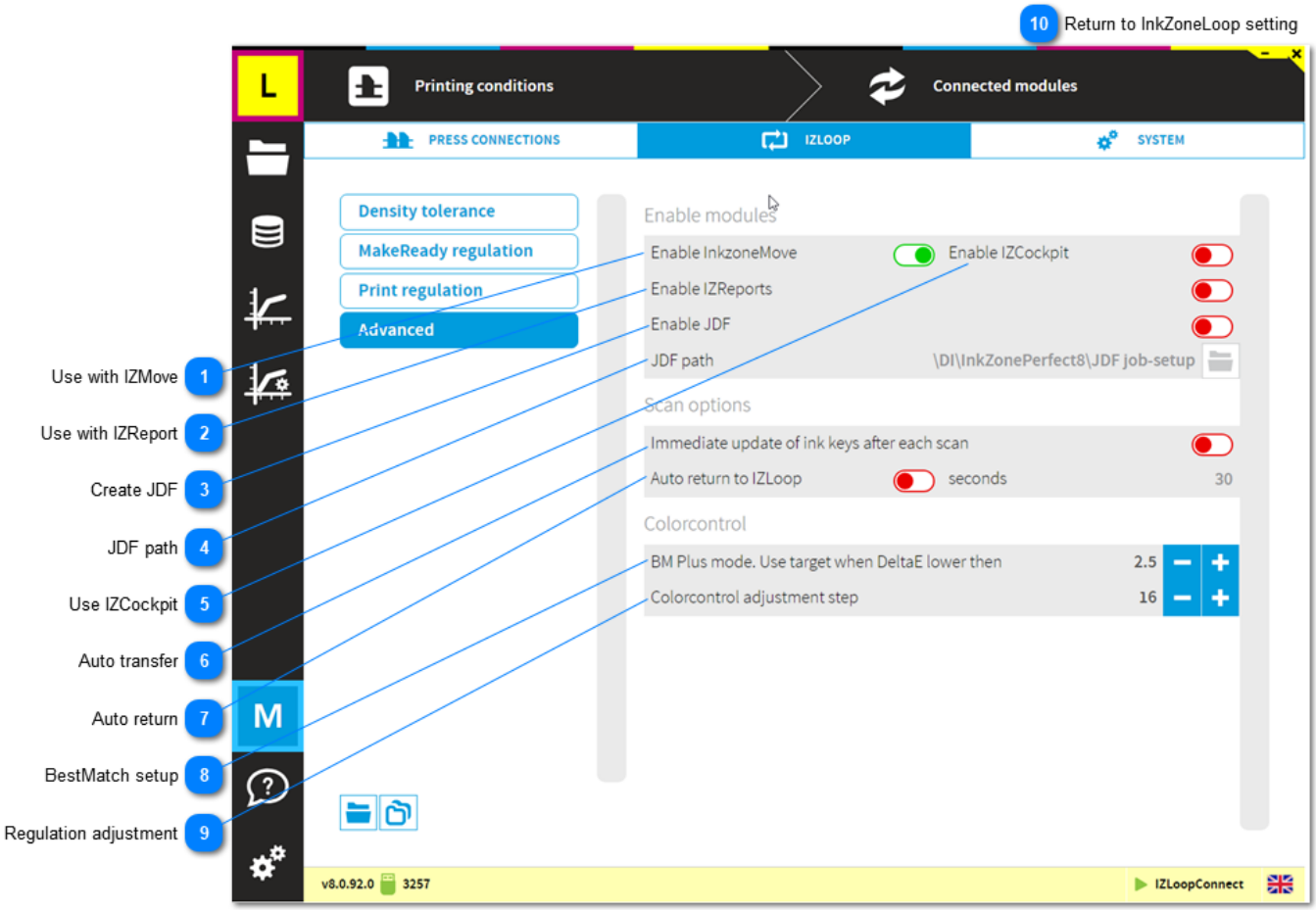
3 Over inked

A value lower than 1 applies smoother regulation to over-inked ink-keys to avoid oscillation.
Applies when job is in production mode.

4 Return to InkZoneLoop setting

1.7.4. InkZoneLoop settings

1.7.4.4. Advanced settings



1 Use with IZMove

Enable when InkZoneMove is the scanning software.

2 Use with IZReport

Enable when a 3rd party software is the scanning software.

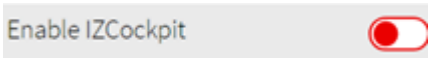
3 Create JDF

Enable JDF job setup for 3rd party scanning software.

4 JDF path

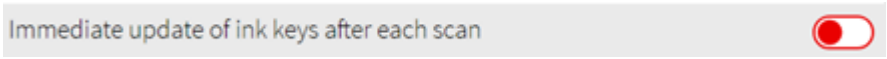
Select here the JDF export path. See here: JDF export - setup

5 Use IZCockpit



Enable when a 3rd party software is the scanning software.

6 Auto transfer



The ink-key correction is sent automatically to press console after receiving new measurement data.

7 Auto return

Return to InkZoneLoop screen, in seconds. Useful setting when InkZoneLoop is in background and new measurements are required to be processed.

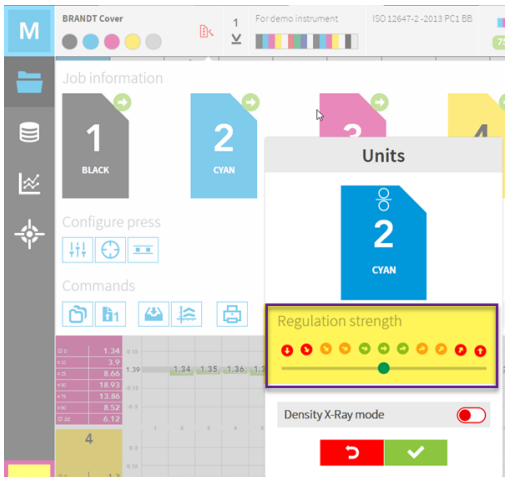
8 BestMatch setup

Set BestMatch density to measurement with lowest DeltaE. The DeltaE has to be lower than the value set here.

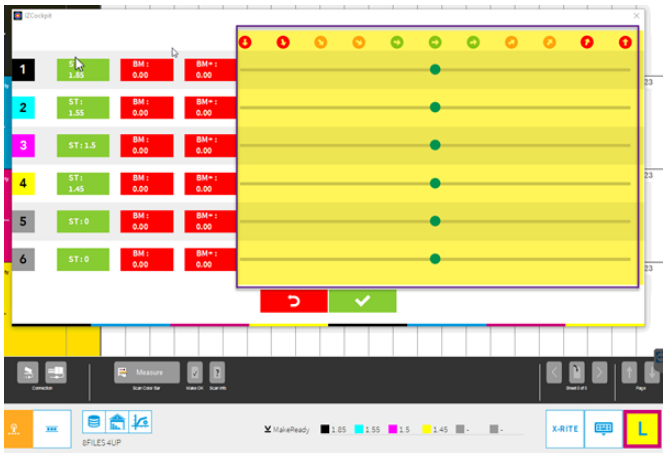
9 Regulation adjustment

Step width applied to the regulation parameter when colorcontrol parameter is changed from InkZoneMove or InkZoneCockpit.

InkZoneMove - change regulation strength



InkZoneCockpit - change regulation strength



10 Return to InkZoneLoop setting

1.7.4. InkZoneLoop settings

1.8. License

1 SW version

InkzonePerfect version

Displays the current installed software version.

2 Dongle ID

Dongle ID

Displays the hardware dongle ID.

3 Valid for version

Valid license for version

The currently installed license is valid for shown version number.

4 Expire

License expires

License expires on the day displayed.

5 Modules

Additional modules

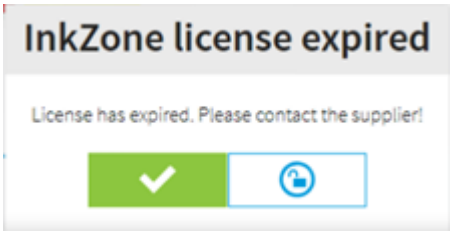
Shows a list with all licensed modules.

6 **Return to home**

Go to 1.1. Home

1.8.1. License loader

1 License status

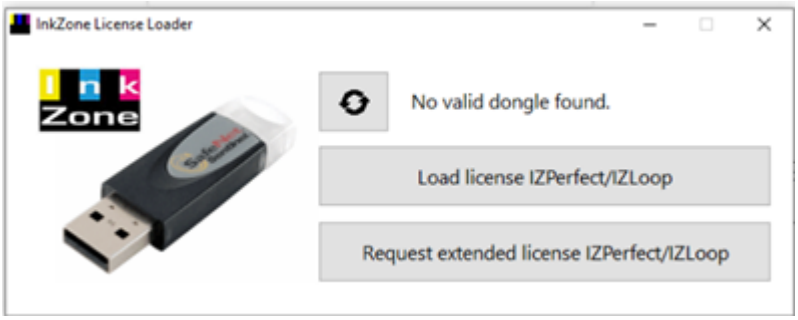


Current license status. Contact your dealer, distributor when the license is not valid.

2 Load license app

Starts the license application.

3 License loader



License loader app.

Dongle ID: the top line shows the currently attached InkZone USB dongle. If dongle is attached and no dongle number is shown, than make sure that the correct Sentinel dongle driver is installed. Download the correct one from here: Sentinel dongle driver
Load license: load from here a new license then restart InkZone

License request: create a license request (lower button) and send it to your dealer or distributor. If you have a license file, load it with the button above and restart the application.

4 Go to home

1.1. Home

2. FAQ section

Find here a collection of frequently asked questions.

Installation topics

InkZonePerfect - ink-preset

InkZonePerfect with InkZoneLoop - ink-preset and color-control

Multiple IZ installs - share job database

Configuration topics

JDF export - setup

Installation steps "ink-preset" only

1. Install the unified InkZone installer download link for Unified InkZone installer
2. Run the InkZonePerfect8 installer
3. Run the sentinel dongle driver setup from "C:\Program Files (x86)\DI\InkZonePerfect8_DONGLE DRIVER"
4. Start the program and install the license, see License loader
5. Configure press setting, see press setup
6. Configure press connection settings, see press connection
7. Start InkZone and configure the XMLConnector, the import module for XML/PNG data, see XMLConnector setup
8. Import print targetsets and link them to the calibration curve, see Import targetset
9. Finish

Installation steps "ink-preset and color-control"

1. Install the unified InkZone installer download link for Unified InkZone installer
2. Run the InkZonePerfect8 installer
3. Run the sentinel dongle driver setup from "C:\Program Files (x86)\DI\InkZonePerfect8_DONGLE DRIVER"
4. Start the program and install the license, see License loader
5. Configure press setting, see press setup
6. Configure press connection settings, see press connection
7. Start InkZone and configure the XMLConnector, the import module for XML/PNG data, see XMLConnector setup
8. Import print targetsets and link them to the calibration curve, see Import targetset

When used with InkZoneMove:
9. Activate InkZoneMove in advanced settings of InkZoneLoop
10. Start InkZoneMove and select in the press configuration the press created in InkZonePerfect
11. Link the targetset to the calibration curve from InkZonePerfect
12. Activate InkZonePerfect and InkZoneLoop in the system setup of InkZoneMove

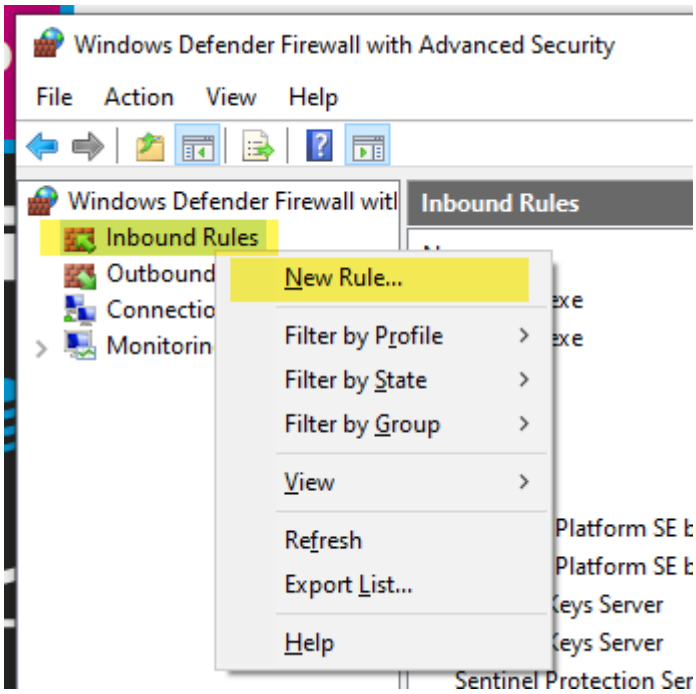
When used with 3rd party scanning software:
9. Activate IZCockpit in advanced settings of InkZoneLoop
10. Install IZCockpit
11. Configure IZCockpit, select the hotfolder input folder for the export data SVF, XML etc
12. Configure the 3rd party software to export theri scan data to the hotfolder created at #11

Multiple IZ installs - share job database

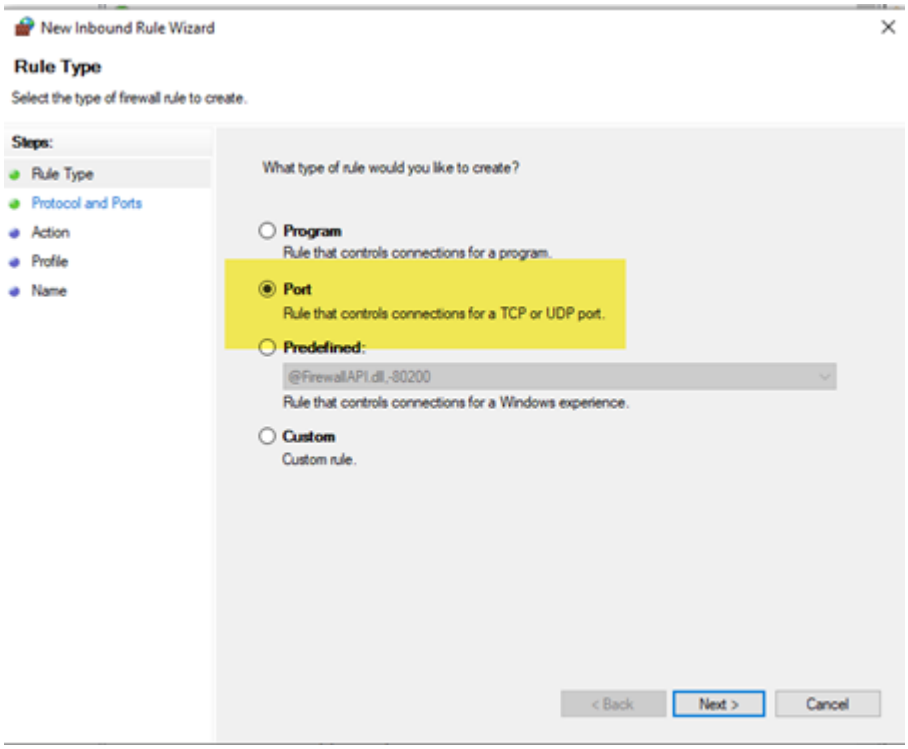
In an press room where two ore more identical presses (same size and number of ink-keys) are running, the sharing of the InkZone prepress job database becomes mandatory.

On all the InkZone PCs, open the port 5984 in the firewall setup:

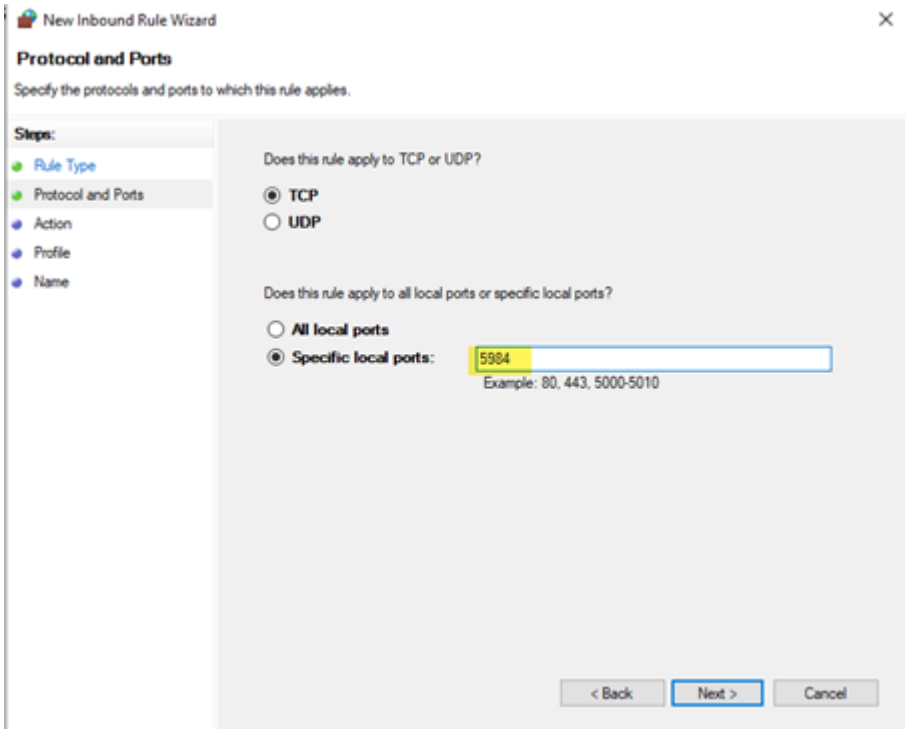
1



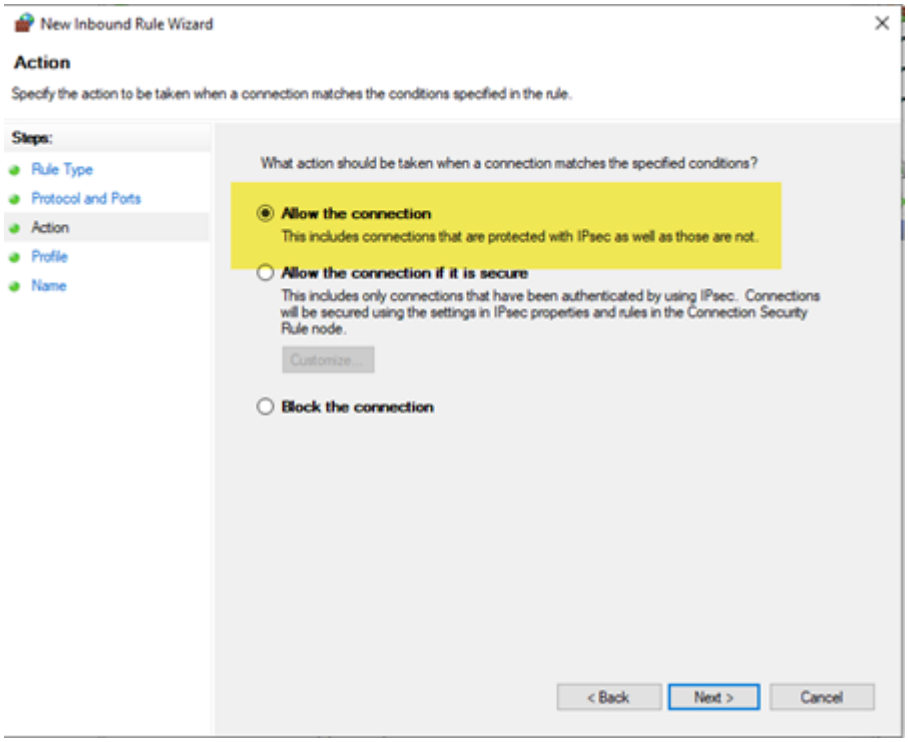
2



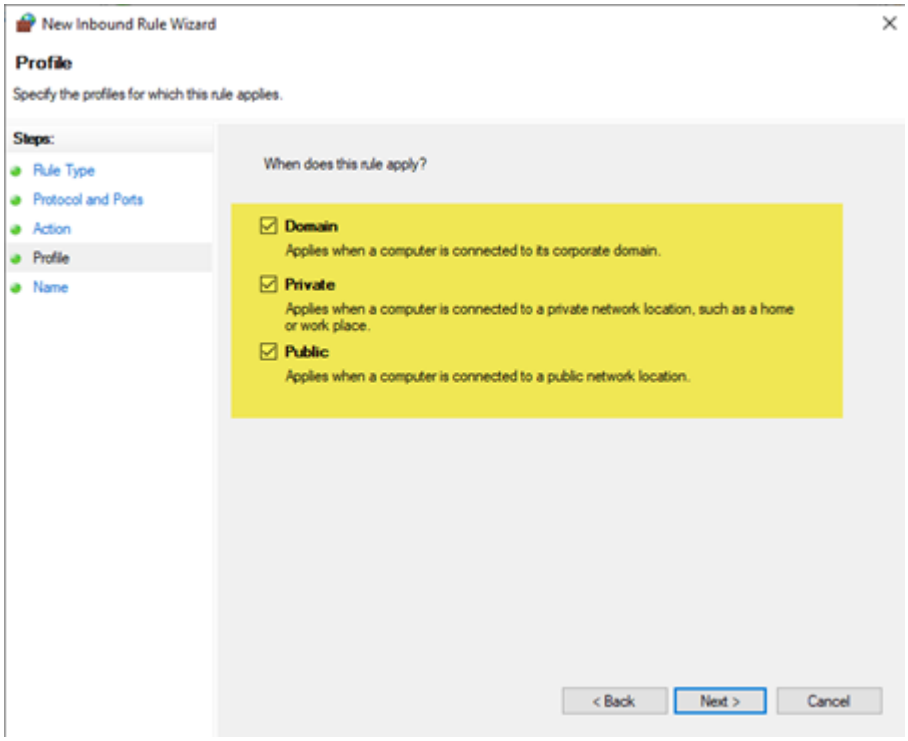
3


New Inbound Rule Wizard
Protocol and Ports
Specify the protocols and ports to which this rule applies.
Steps:
Rule Type
Protocol and Ports
Action
Profile
Name
Does this rule apply to TCP or UDP?
TCP
UDP
Does this rule apply to all local ports or specific local ports?
All local ports
Specific local ports:
5984
Example: 80, 443, 5000-5010
< Back
Next >
Cancel

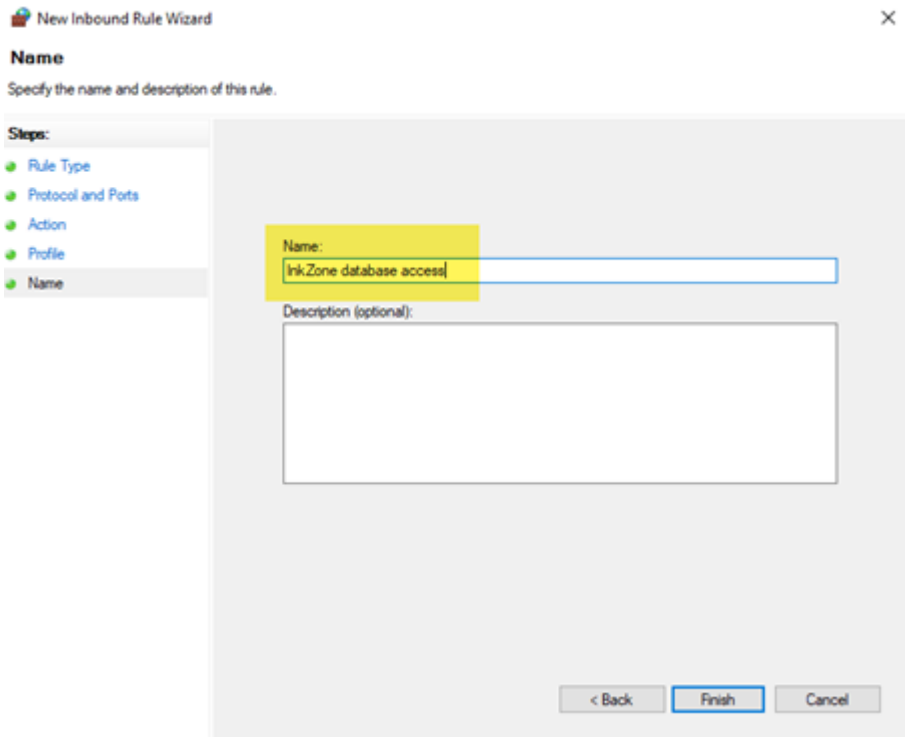
4


New Inbound Rule Wizard
Action
Specify the action to be taken when a connection matches the conditions specified in the rule.
Steps:
Rule Type
Protocol and Ports
Action
Profile
Name
What action should be taken when a connection matches the specified conditions?
Allow the connection
This includes connections that are protected with IPsec as well as those are not.
Allow the connection if it is secure
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.
Customize...
Block the connection
< Back
Next >
Cancel

5

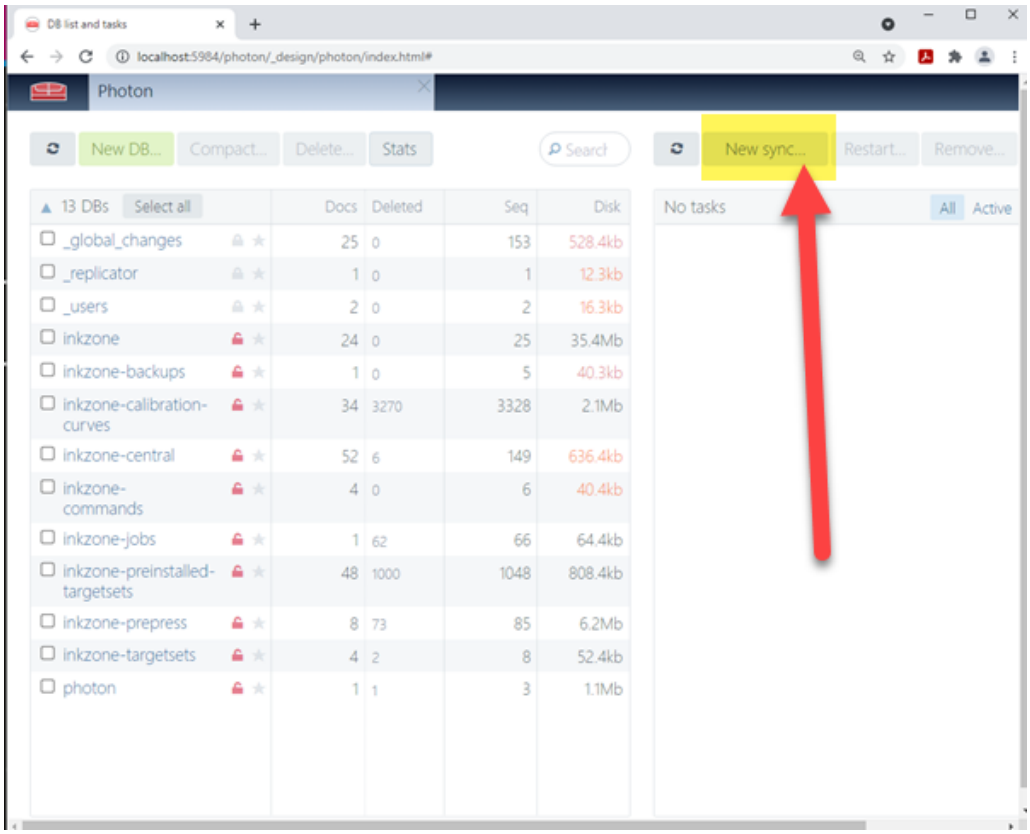


6



7 Start InkZonePerfect8 andaccess the CouchDB database with:
CTRL + SHIFT + D.
Alternatively, use this link for the access:
http://localhost:5984/photon/_design/photon/index.html#

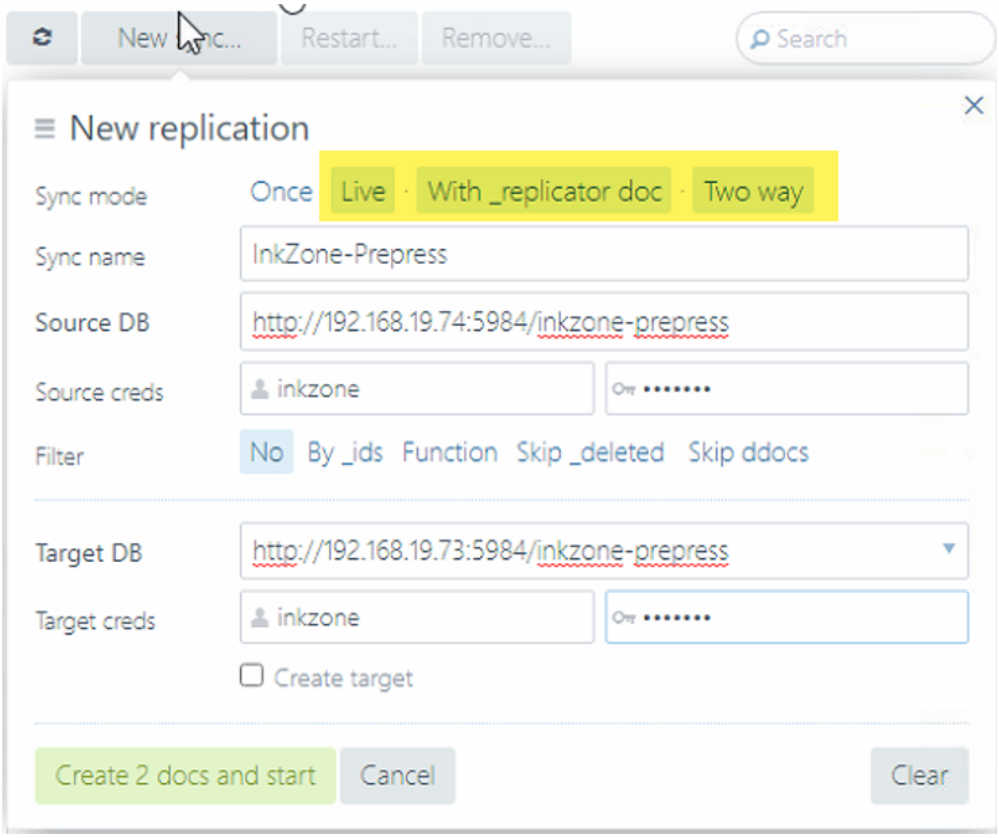
8 Change to the main screen and add the database replication process between the InkZone PCs:



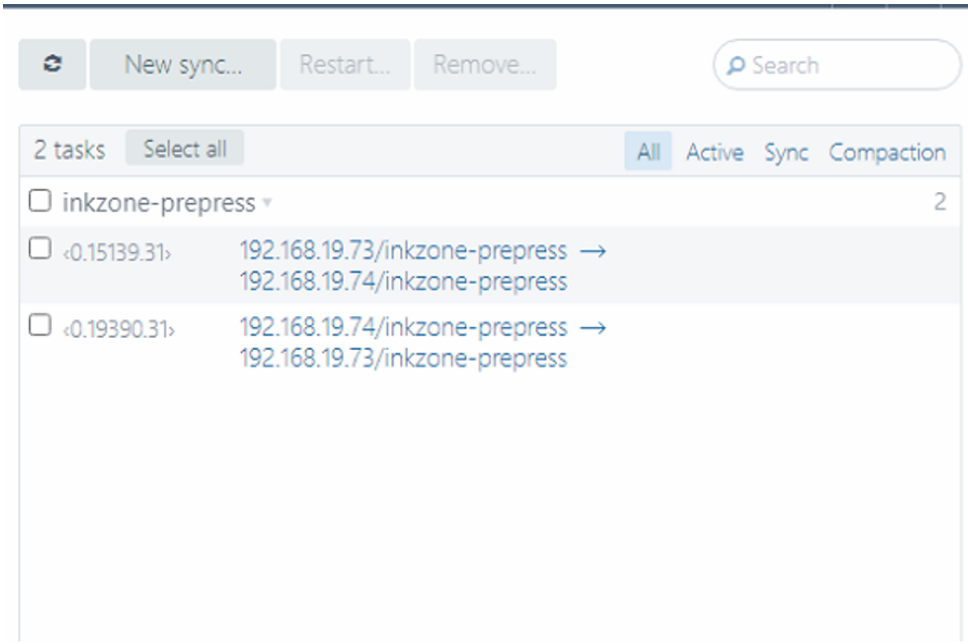
8 Replication rule setup:

Local PC as Source : http://192.168.19.73:5984/inkzone-prepress
Remote PC as Destination: http://192.168.19.74:5984/inkzone-prepress

Enter the credentials and set “Live”, “Two way”,”with_replicator_doc”



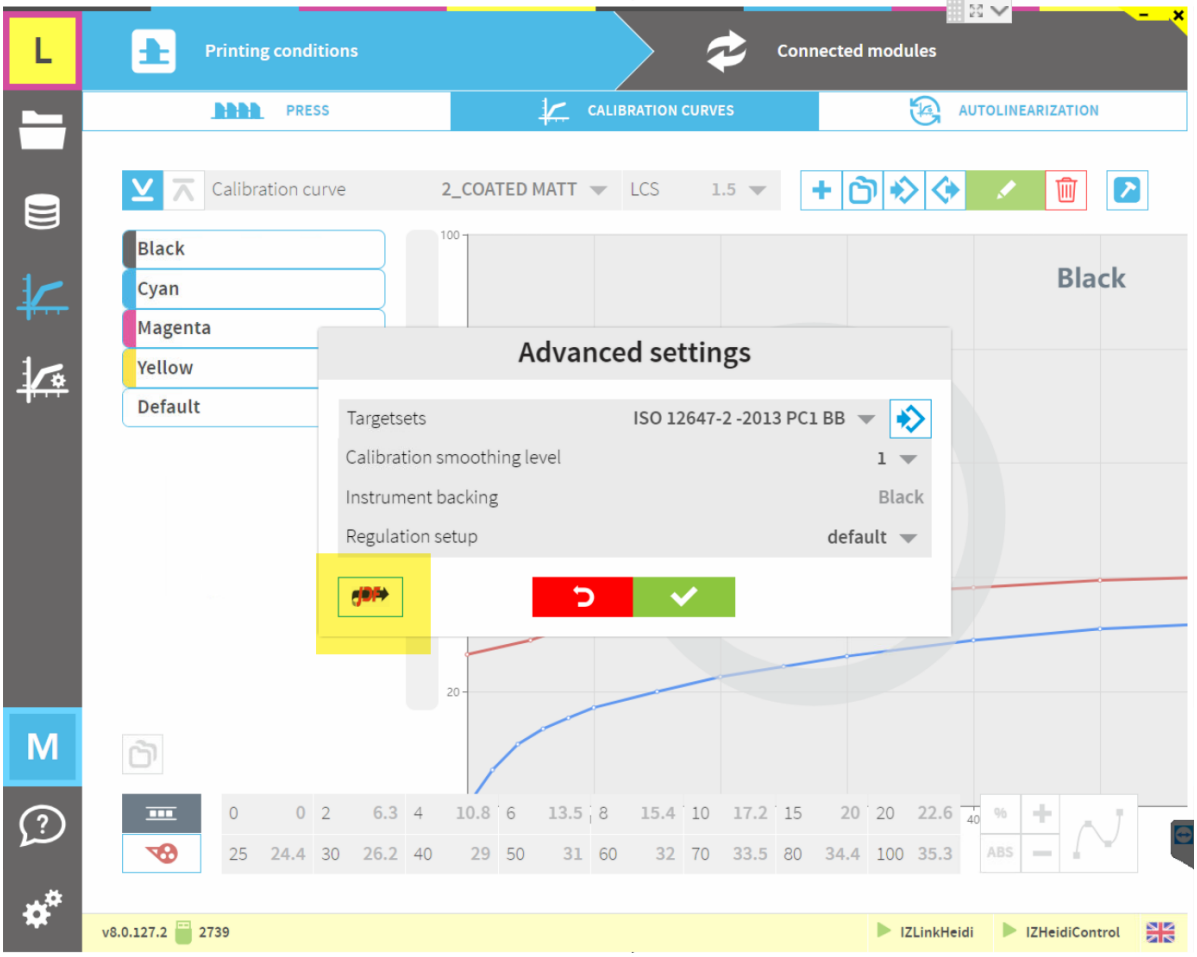
9 Finish



JDF export - database settings

The JDF export from InkZone creates a job preparation setup file for Techkon ExPresso and X-Rite scan software.

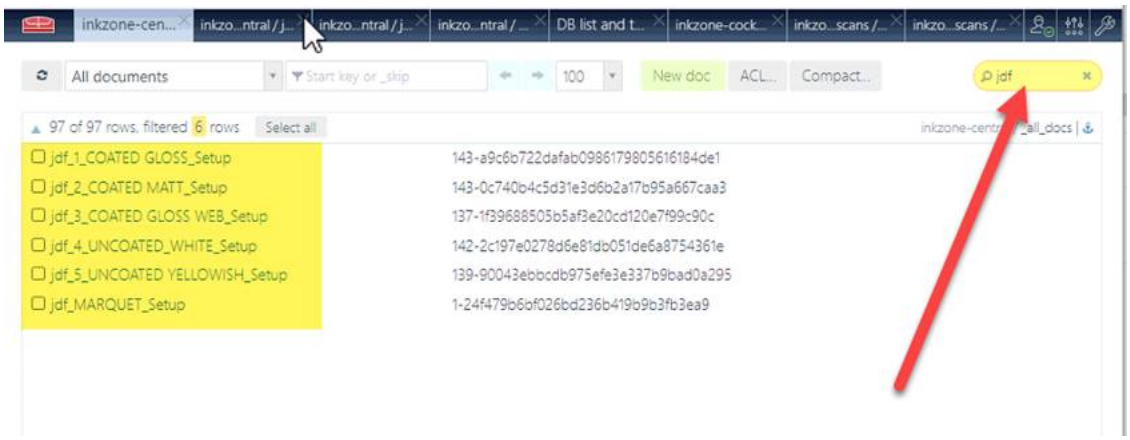
Note
From InkZone version 8.0.127 onwards, the JDF parameters can be setup in the calibration curve setup:



The manual setup (legacy):

1. Go to the database and login with inkzone / testing:
http://localhost:5984/photon/_design/photon/index.html#inkzone-central

2. Look for the database document starting with JDF. Apply a search like:



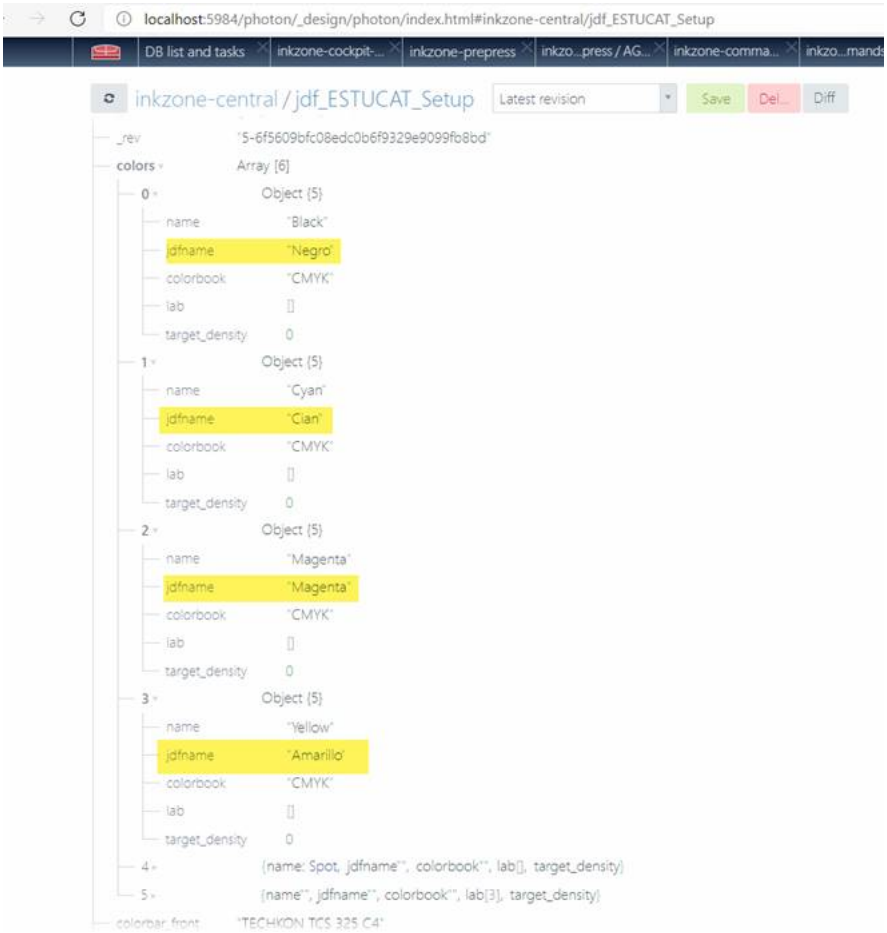
3. Edit the entries for the Paper and Black, Cyan, Magenta, Yellow and the spot color setup:

a) Color name within the JDF. It's the color name expected by X-Rite or Expresso software

b) Colorbook name

c) Lab values

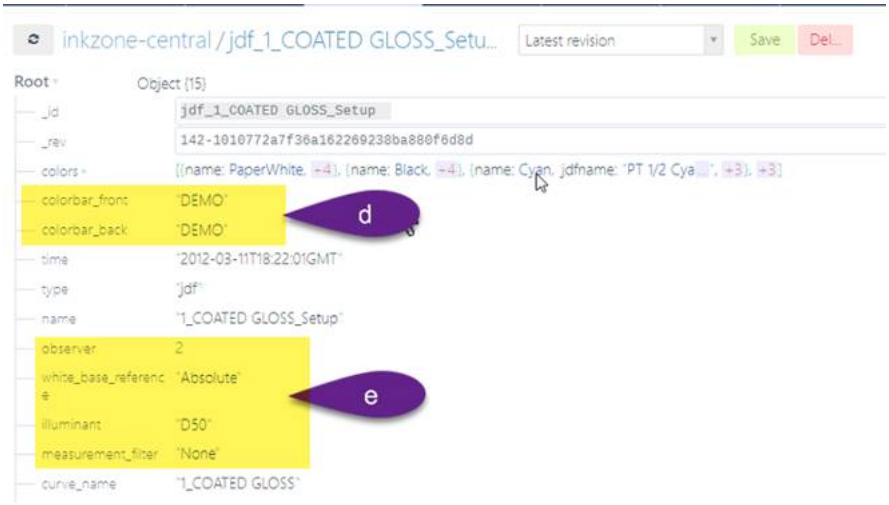
Sample Expresso 4.2:



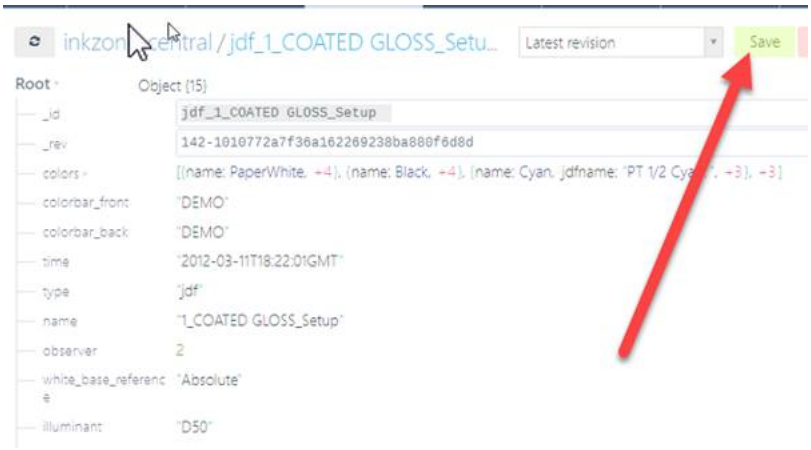
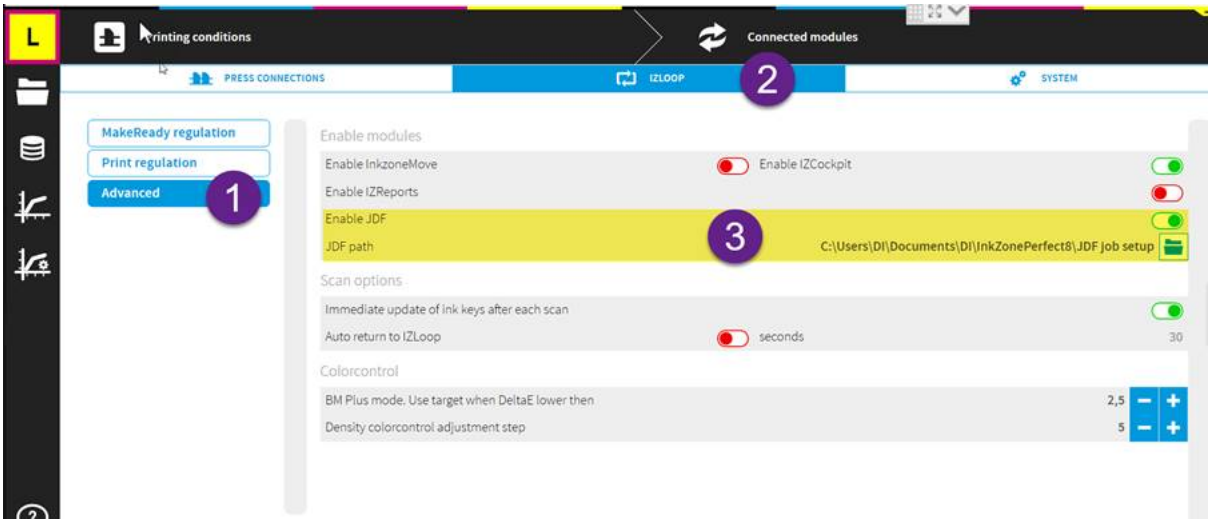
4. Edit the entries for the colorbar name and the scan instrument setup setup:

d) Colorbar front and colorbar_back

e) Instrument parameter settings



5. Store the changes



6. Enable JDF creation in IZLoop setting. Select the JDF export path: