

Digital Information



D-Jet 300 / 500 / 700

**Installation and
Configuration DI-Pilot**

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Owing to our policy of continuous product development, specifications, terms and description of DJet are subject to change without prior notice.

Identifier	Installation manual - EN Configuration DJet software
Target group	Installation
Product	DJet
Version	V 2.2
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Article code	DJet DI74398-026 EN

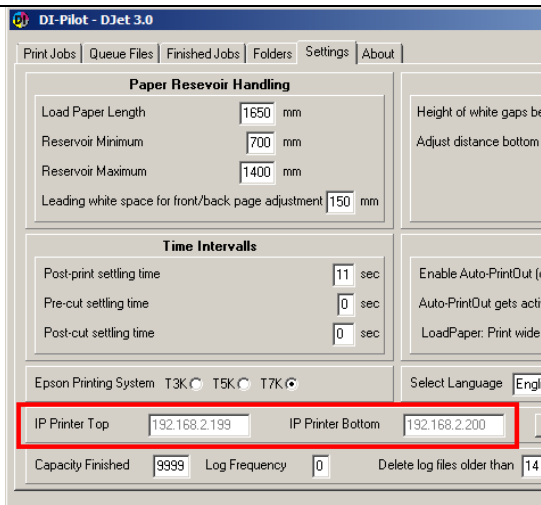
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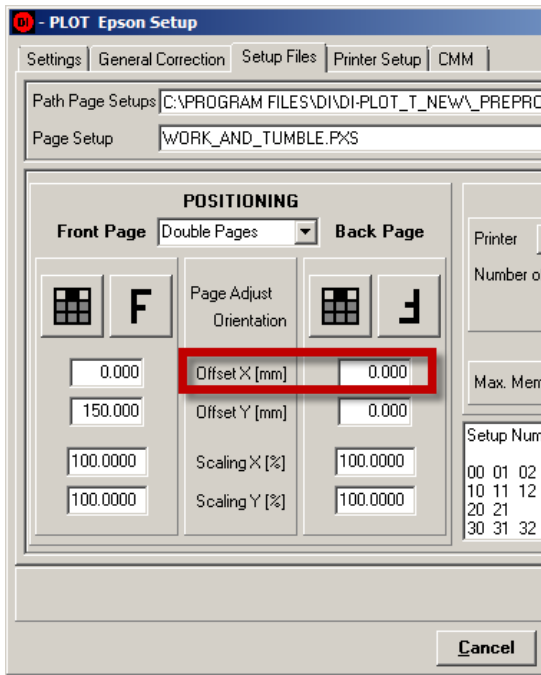
1 Installation check list

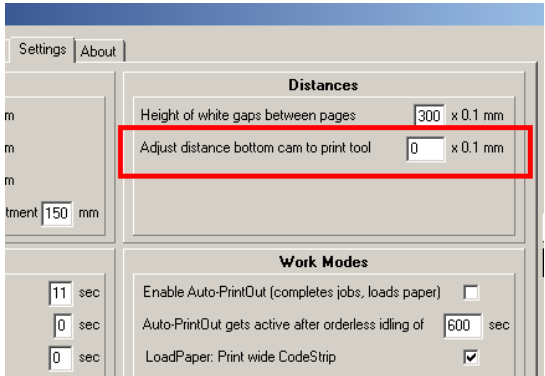
1.1 Epson Models SC T3x00-T5x00-T7x00

	Action	
1	Build up the DJet printer stand.	See the manual "DJet HW installation guide"
2	Install the Epson Printer Driver and the Epson Status Monitor software	Available on the Epson CD or www.epson.com
3	Install the Epson LFP Remote Panel software	Available on the Epson CD or www.epson.com
4	Check if the correct T-Series printer firmware is installed. Use the Epson Remote Panel for the verification	Latest version see www.epson.com
5	Connect each T-Series printer with an Ethernet and USB cable to the DI-Pilot computer.	
6	<p>Set the IP address on both printer. Each IP address is configured in the DI-Pilot program also.</p> <p>Note: When installing the software to an Asian Windows system, add the English language support to gain full compatibility with the SNMP protocol.</p>	
7	Set on both printer "Custom mode = 2".	<p>See the manual "DJet HW installation guide"</p> <p>The Custom Mode setting is reached by switching off the printer and then to press the Pause button while switching on the printer.</p>

	Action	
8	Set on both Epson printer " Paper Skew Check" to OFF	On the Printer control panel go to Setup: <ul style="list-style-type: none"> – Printer Setup – Advanced Setting – Paper Skew Check – Set to OFF
9	Set on both Epson printer the "Paper size Check" to ON	On the Printer control panel go to Setup: <ul style="list-style-type: none"> – Printer Setup – Advanced Setting – Paper Size Check – Set to ON
10	Set on both Epson printer the "Roll Paper Margin" to NORMAL	On the Printer control panel go to Setup: <ul style="list-style-type: none"> – Printer Setup – Roll Paper Setup – Roll Paper Margin – Set to NORMAL
11	Set on booth Epson printer the "Auto Cut" to Off	On the Printer control panel go to Setup: <ul style="list-style-type: none"> – Printer Setup – Roll Paper Setup – Auto cut – Set to OFF
12	Set on booth Epson printer the "Refresh Margin" to On	On the Printer control panel go to Setup: <ul style="list-style-type: none"> – Printer Setup – Roll Paper Setup – Refresh Margin – Set to ON
13	Create on both printer the custom paper called "DJet". For each new paper roll select the DJet custom paper as the default paper.	See the manual "DJet HW installation guide"
14	For each printer setup an Ethernet and a USB connection	

	Action	
	<p>Install DI-Plot and DI-Pilot. Best performance is reached by installing the two software packages to different hard disk drives.</p> <p>Installation path setup recommendation:</p> <p>On Hard Disk 1 (large disk)</p> <ul style="list-style-type: none"> - Install DI-Plot - Printed Jobs (= DI-Pilot Finished Jobs=archived jobs) - Log Folder DI-Pilot - Windows Print Spooler 	<p>Obtain the software from the DJet Product CD or directly from our website in the download area www.digiinfo.com</p> <p>On Hard Disk 2 (small and fast SSD drive)</p> <ul style="list-style-type: none"> - Install DI-Pilot - Print Files generated by DI-Plot (= DI-Pilot Input Jobs) - Camera Images
15	Start and configure the DJet Control software.	<p>DJet Control is located in the same folder as the DI-Pilot software.</p> <p>Set the application compatibility mode to "WinXP SP2" and select "Run as administrator".</p> <p>Do the same for DI-Pilot and DI-Plot</p> <p>After starting up it is accessible through a GREEN dot in the lower right corner. Open the UI and select here the USB Windows printer queue for the Front and Back T-Series printer.</p>
16	Install the latest uEye Camera driver and connect both cameras directly to the computer or to an USB hub with external power supply.	Run the installer from the Menu START→ Programs →Digital Information →DI-Pilot →Installers → Installer uEye
17	Set the Camera ID's with the "uEye Camera Manager" to: Cam Top ID 1 Cam Bottom ID 2	Run the program from the Menu START→ Programs →IDS→uEye → uEye Camera Manager
18	Set the shutter from the camera lense between 8 and 16. The focus needs to be set to close-up.	
19	Create for each camera a setup file with the uEye Cockpit software.	See the manual "uEye Camera Setup Guide DJet.pdf" in the application folder in subfolder "PDF Manual"

	Action	
20	Load a 43" or 23" paper roll. Important: Check carefully the "Paper Load Guide"	See the manual "Paper load DJet -1.1.pdf", available in the application folder in subfolder "PDF Manual"
21	Convert with DI-Plot a test job	Available on the DI Preproofer Product CD or at http://www.digiinfo.com/support/manuals "8FILES_IMPOSED_8UP_F-B_TIFF-LZW"
22	Print several jobs before starting with the front-back registration adjustment.	
23	Backup the registration. - Backup the x-axis (=print head movement direction). The x – correction is done in the Page Setup of DI-Plot. Change only the back side parameters	<p>In DI-Plot, open the PageSetup in Menu: Epson Setup → Setup Files → Parameter Back Page "Offset X".</p>  <p>The screenshot shows the 'Epson Setup' dialog box with the 'POSITIONING' tab selected. Under the 'Back Page' section, the 'Offset X [mm]' field is highlighted with a red rectangle. Other fields visible include 'Offset Y [mm]', 'Scaling X [%]', and 'Scaling Y [%]'. The 'Front Page' section also has similar fields. The 'Path Page Setups' field shows 'C:\PROGRAM FILES\DI\DI-PLOT_T_NEW\PREPRO'. The 'Page Setup' field shows 'WORK_AND_TUMBLE.PXS'. The 'Printer' section on the right shows 'Number of' and 'Max. Mem'. The 'Setup Num' section shows a grid of numbers from 00 to 32.</p>

	Action	
25	<p>- Backup the y-axis (paper feed direction).</p> <p>The y-correction is done in the DI-Pilot</p>	<p>In DI-Pilot change to the tab "Setting".</p>  <p>For the y-correction, change the value "Adjust distance bottom cam to print tool" .</p> <p>During production (system is printing), the parameter is accessible in the Tab "Settings"</p> <p>A detailed explanation for the register adjustment can be found in the chapter 6 "Register Front and Back Side"</p>
26	Verify and adjust a rare horizontal skew.	See chapter 3.2.4

2 Installation

2.1 Install DI-Plot

Run the installer from the DJet Product CD.

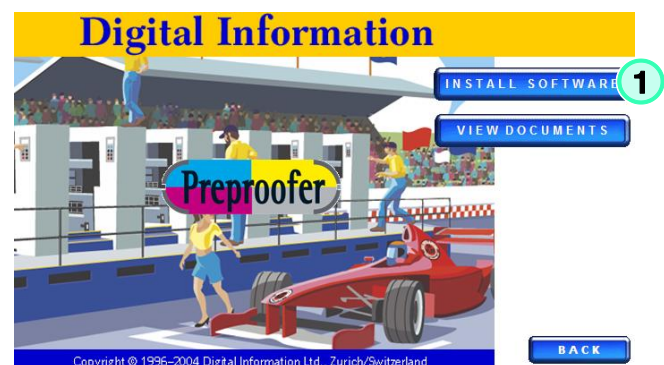
The software uses a hardware key from Sentinel. Install the driver which is located in the DI-Plot program directory in the folder “_DongleDriver”.

The detailed software installation procedure is described in the manual “DI-Plot admin”, chapter 2. Find the manual on the CD.



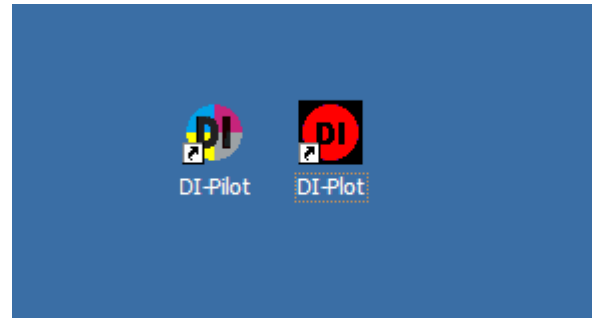
2.2 Install DI-P i lot

Use the installer from the CD to install the DI-P i lot Output Manager software on the system.



2.3 Start DI-Plot and DI-Pilot

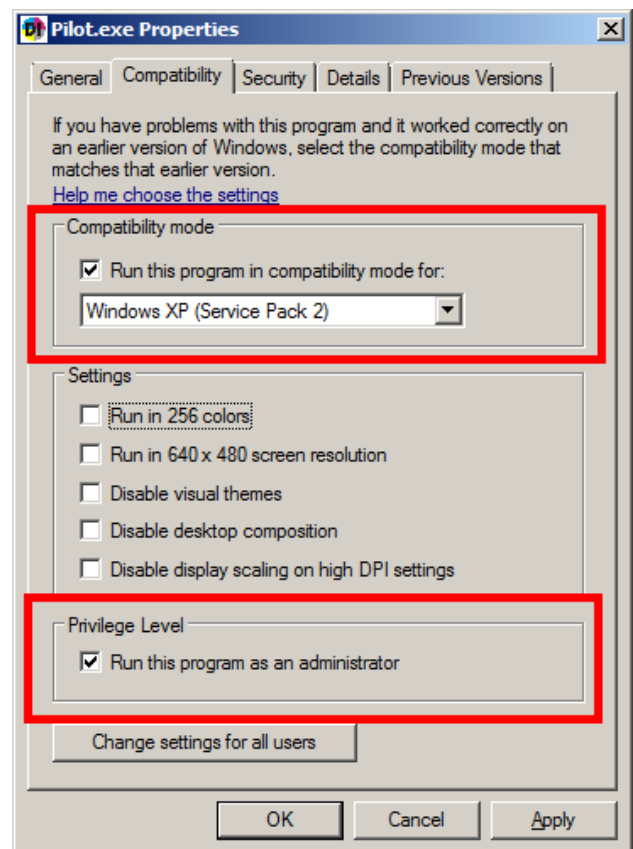
The installer creates for both programs a shortcut on the desktop.



Important note

Configure for both programs the “compatibility mode” and the “privilege level”.

Select here the “Windows XP SP2” compatibility mode and enable the checkbox “Run this program as an administrator”.



2.4 uEye Camera Driver

2.4.1 Install

Start the “uEye” camera installer from START, Programs, Digital Information, DI-Pilot, Installer

Depending on the Windows version, select either the “uEye Camera Installer 32Bit” or “uEye Camera Installer 64Bit” installer.

The installer guides you through the setup.

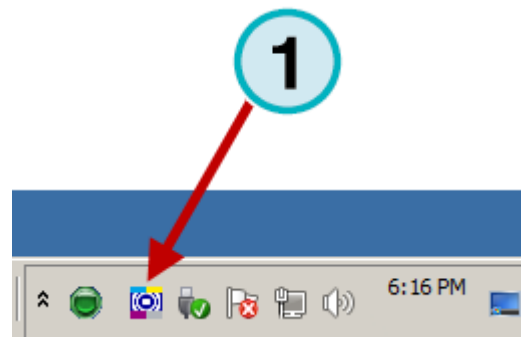
2.4.2 Camera Lens Setup

Adjust the lens focus to close-up and set the lens aperture between 8 and 16.

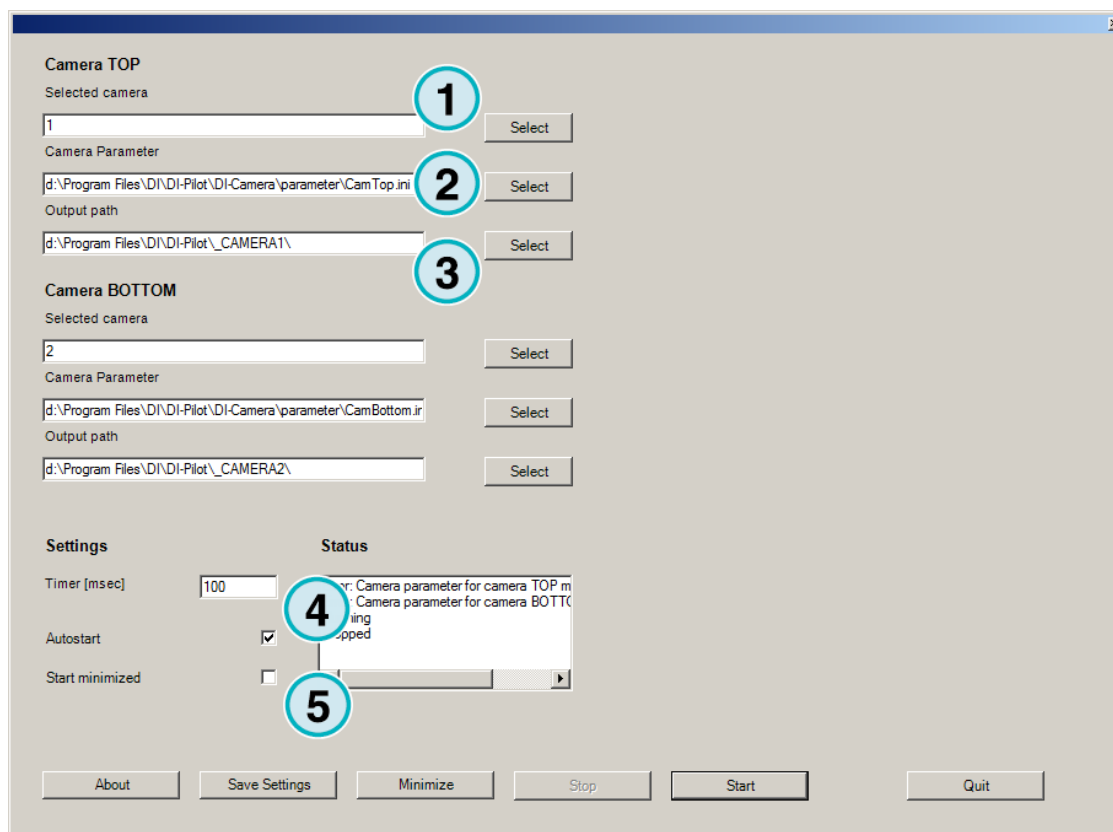
Each camera needs its own and therefore unique camera ID. Change the ID with the “uEye Camera Manager”, see the manual “uEye Camera Setup Guide – ENG.pdf”.

2.4.3 Access DI-Camera

The DI-Camera software starts up while DI-Pilot is launched. The program is accessible through the icon from the program tray area (1).



2.4.4 Configuration DI-Camera



	Parameter	Function
1	Selected Camera	Choose 1 for the Top, 2 for the Bottom Camera
2	Camera Parameter	Select the camera setup files from the folder "d:\Program Files\DI\DI-Pilot\DI-Camera\parameter" TOP camera cameratop.ini / cameratop-64bit.ini BOTTOM camera camerabottom.ini / camerabottom-64bit.ini
3	Output Path	Set the output path for the bmp images with the OCR code Output TOP camera d:\Program Files\DI\DI-Pilot_CAMERA1 Output BOTTOM camera d:\Program Files\DI\DI-Pilot_CAMERA2
4	Auto start	Activate
5	Start minimized	Activate

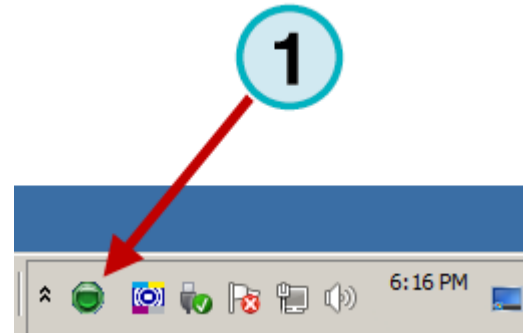
2.5 DJet Control Software

2.5.1 Access DJet Control

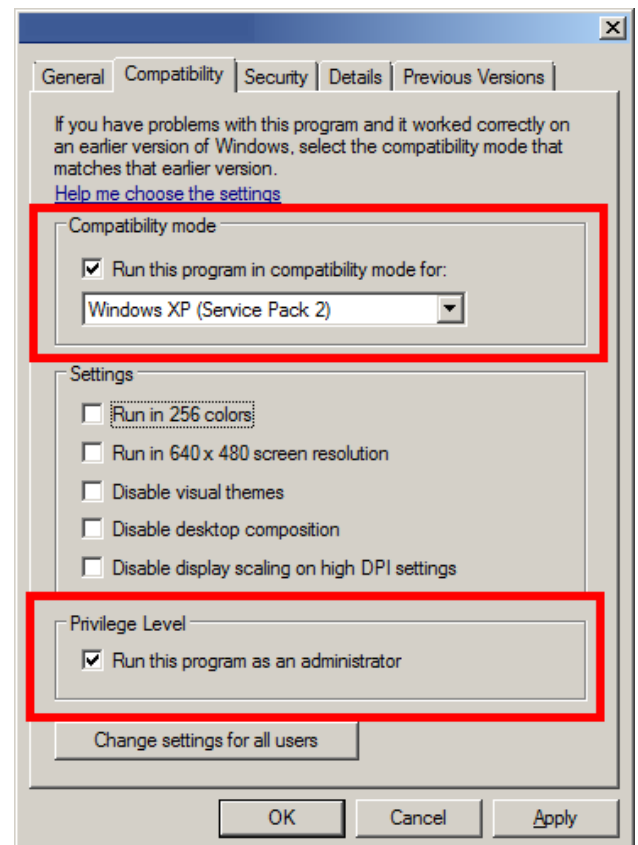
DI-Pilot communicates through the “DJet Control” software.

The DI-Camera program, like the DJet Control, starts up during the program start.

The program is accessible from the program tray area (1).



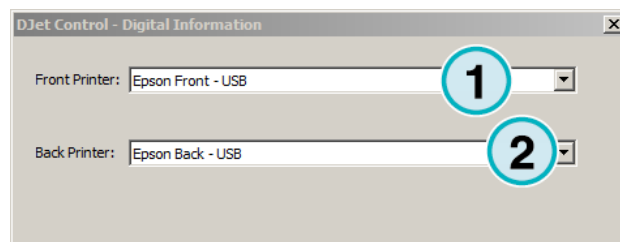
Set the compatibility mode to WinXP SP2 and activate the checkbox “Run as administrator”.



2.5.2 Configuration DJet Control

The commands to the printer are sent with the DJet Control software.

In the program UI, select the Front and Back printer Windows queue which connect to the printer through USB.



Note

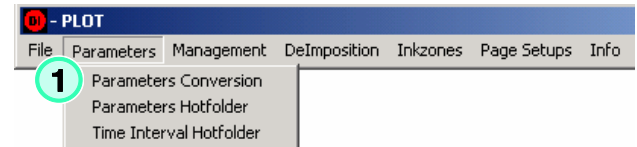
Use only USB connected Windows queues. An Ethernet connected queue will not work.

	Parameter	Function
1	Front Printer	Select the Windows queue connected to the Front printer through USB
2	Back Printer	Select the Windows queue connected to the Back printer through USB

3 Software Configuration

3.1 Set Input and Output Format

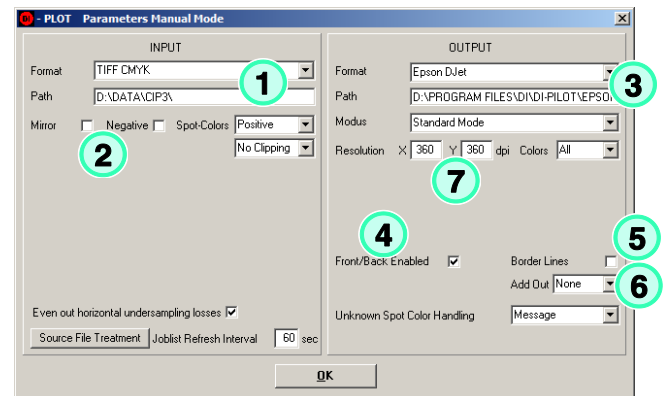
Open the menu Parameters -> Parameter conversion



(1) Choose the input format which reflects the prepress workflow rip's output. The input path is the folder where the TIFF files are exported from the Prepress Workflow Rip.

(3) Choose the output format "Epson DJet". Set the output directory to point into the DI-Pilot input folder.

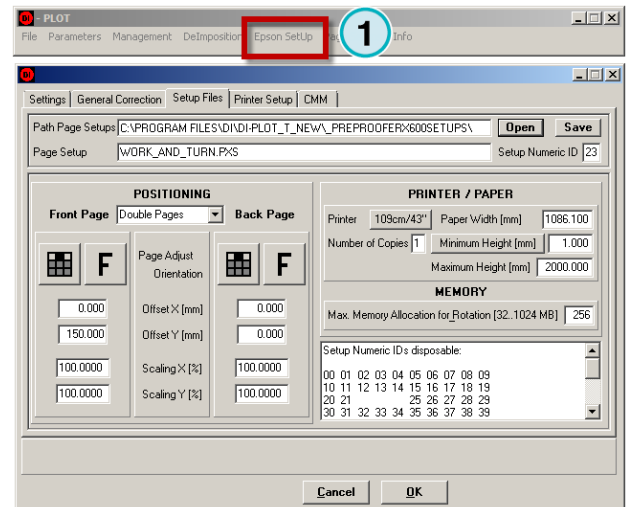
The output path is the input path for the DI-P i lot Output Manager software.



	Parameter name	Function
(1)	Input format and input path	Setup the input bitmap format and directory from your workflow.
(2)	Flip/Negative	Depending on the workflow setup you may have to set the check boxes "Flip" (= mirroring) or "Negative".
(3)	Output format and output path	The output format is "Epson DJet". Select an output directory where the generated files are stored and further processed by DI-P i lot.
(4)	Front/Back enable	Enable the double sided output for the DJet. Activate the checkbox "Front/Back Enable".
(5)	Border Lines	Creates a thin border line around the job size limits
(6)	Add Out	Select an additional output like CIP3, Inkzone or JDF data. After the DJet data processing the selected output data is additionally produced.
(7)	Resolution	Bitmap calculation resolution. Note: this is not the printing resolution. The printing resolution is set in the menu PageSetup.

3.2 DJet Setup

Go to the menu Epson Setup (1). Configure the Epson DJet system here.



3.2.1 Menu Settings

When running the software the fully automated hotfolder mode select here a “Name Scheme” (1) wh

Note

Every prepress workflow use its own way to handle the file naming for front and back side jobs.

The simplest way is by setting a “_F” on the “front side file name” and a “_B” on the “back side file name”:

Demo_F.tif

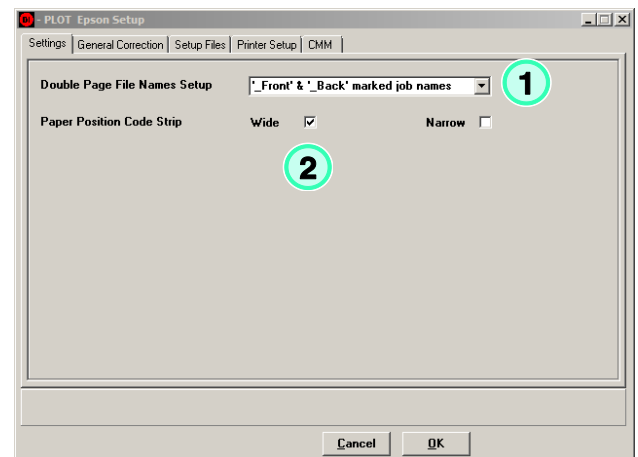
Demo_B.tif

OR

Demo_FRONT.tif

Demo_BACK.tif

For the code strip, select the checkbox “Wide” (2).



3.2.2 Basic Paper Adjustment “Width”

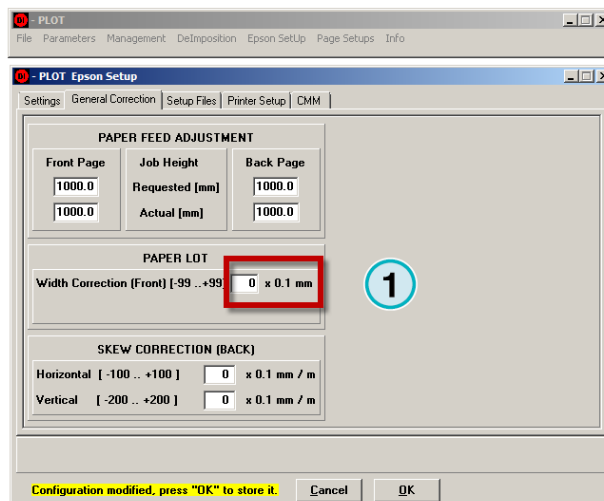
If the paper roll width differs from one production lot to the next lot more than 0.5mm in roll width, use the value “Paper Lot Correction (Front)” (1) to correct the width error .

Example

After changing the paper roll you recognize the new roll is 1.0mm wider than the previous one.

Now, correct this error with a positive correction value in 1/10 of Millimetre.

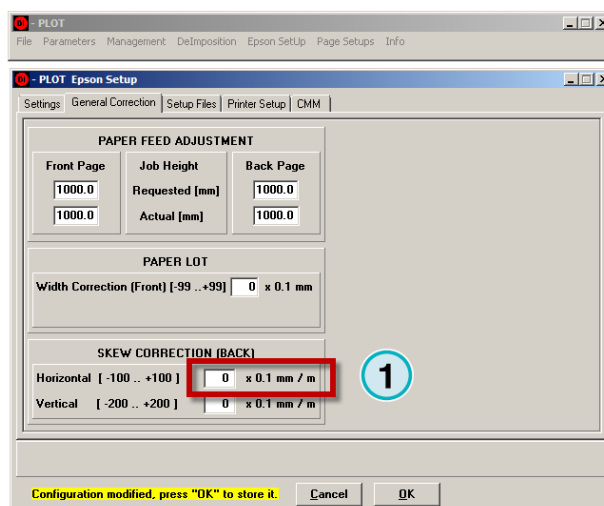
The correction value would be now 10.



3.2.3 Basic Paper Adjustment Horizontal SKEW – Back Printer

Set the parameter “Horizontal Skew Correction Back” (1) to 0.

There is no need to correct a vertical value (paper feed direction). If a skew occurs in the Y direction, print two or three jobs more or then reload the paper.



A positive skew value on the X axis (horizontal) rotates the back page “anti-clock wise” (centre rotation).

Example:

A value of +15 rotates the job as shown in the picture to the right (1).



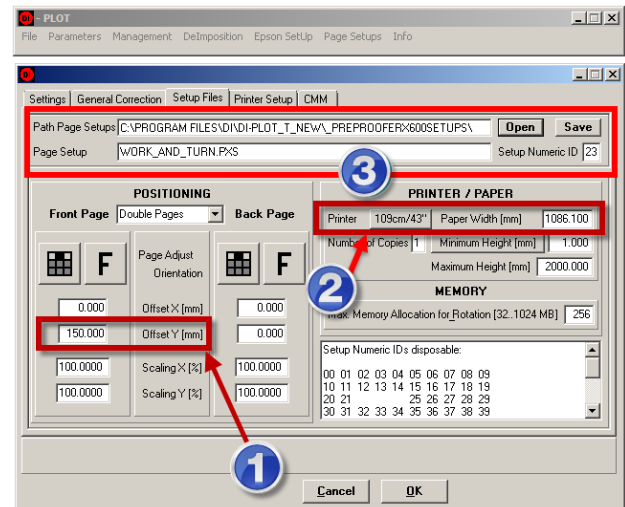
3.2.4 Setup Conversion

With the X and Y offset values the print is positioned in the page.

Note

A Page Setup for the DJet system needs a paper lead for the Front Page of +150mm in the Y axis (1). The value of 150mm is mandatory.

Select the paper roll width here (2).

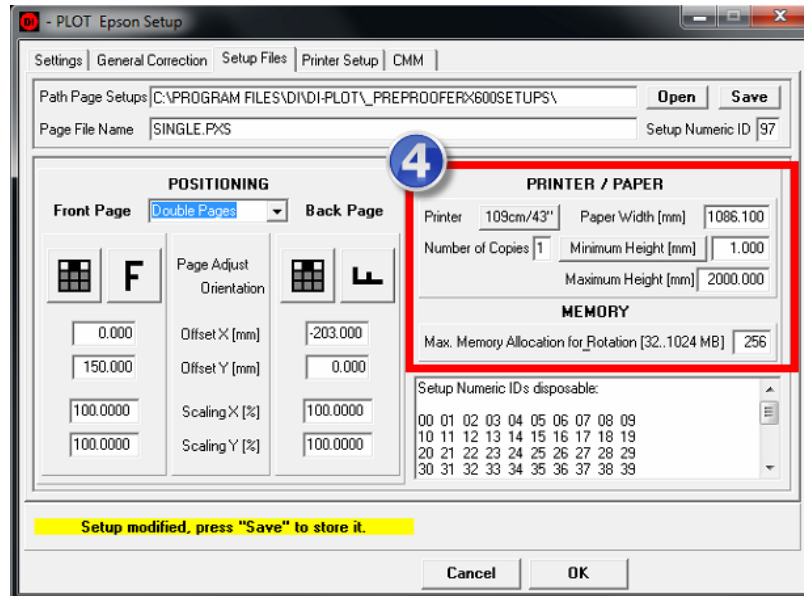


Parameter name	Function
Offset X [mm]	Moves the bitmap data in the X-axis (horizontal) on the page
Offset Y [mm]	Moves the bitmap data in the Y-axis (vertical) on the page
Orientation (F)	Turns the bitmap by 90, 180 and 270 degrees, including mirroring.
Page adjustment (left, centre, right)	Select the bitmap alignment to left, centre or right. The centre position is recommended. (control right of the orientation control "F")
Scaling X [%]	Scales the bitmap data in X-axis (print head direction)
Scaling Y [%]	Scales the bitmap data in Y-axis (paper feed direction)

Area (3)

Parameter name	Function
Path Page Setup	Directory where the page setups are stored
Page Setup	Page Setup name
Setup numeric ID	Each Page Setup uses a unique ID. Choose for each one a number between 0 to 99
Button Save	Stores the Page Setup settings
Button Open	Opens an existing Page Setup

Area Printer/Paper (4)

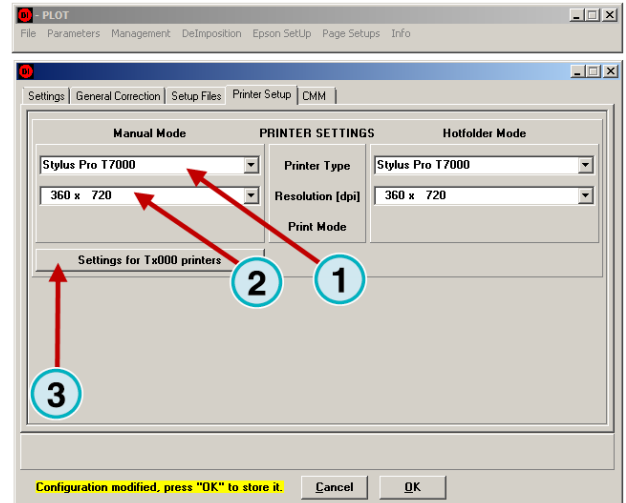


Parameter name	Function
Minimum height	<p>Sets the minimum printed paper height.</p> <p>For jobs smaller than the minimum height :</p> <p>Total paper height = (Minimum height) + (printer margin)</p> <p>For jobs larger than the minimum height :</p> <p>Total paper height = (Bitmap job height) + (printer margin)</p> <p>Note: the minimum paper height is internally set to 600mm</p>
Additional height	<p>Adds a value to the job height.</p> <p>Total paper height = (Bitmap job height) + (printer margin) + (Additional height)</p>
Paper Width	Select the paper roll width
Max. memory allocation	<p>The amount of RAM which is used for calculate the positioning and the rotating. Standard is 256MB. If you experience problems, reduce it.</p> <p>Valid entries are 128MB, 64MB and 32MB.</p>
Number of copies	Setup number of printed copies

3.2.5 Menu Printer Setup -

Set for the print quality for the manual conversion mode here:

- Select the printer type in the first list box (1)
- Set the printer resolution (2)
- Choose between unidirectional or bidirectional mode (3).

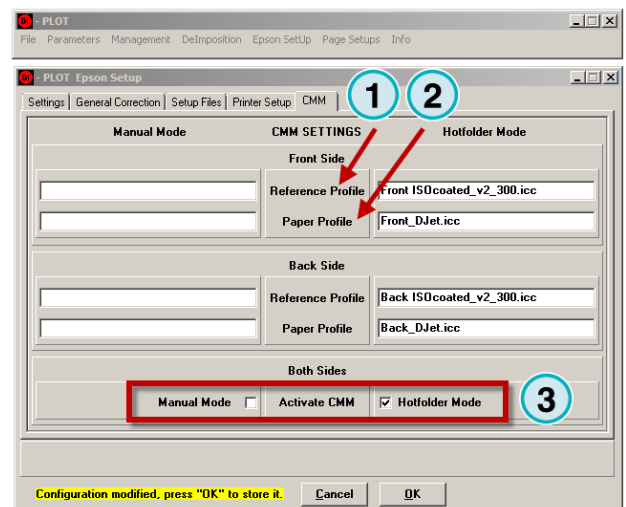


3.2.6 Colour Management Settings

The colour management setting for the manual and hotfolder mode is set for each printer individually.

Select the printer paper profile (2) and the reference profile (1).

Activate the CMM with the check box (3).



4 Configure DI-P i lot Output Manager

4.1 Tab „Folders“

Parameter name	Function
Printer Front	Select the front printer windows queue (connected through IP)
Printer Back	Select the back printer windows queue (connected through IP)
Input Jobs	Select as the input directory the location where DI-Plot writes the printer files. Note This directory should be on the high performance SSD disk.
Finished Jobs	Directory where already printed jobs are stored. The location is usually the disk with the higher capacity.
Log Files	Directory for the log files. The location is usually the disk with the higher capacity.
Capacity Finished	The number of jobs which are kept in the finished jobs folder for job reprints.
Epson Printing System	Select here the 9x00 (44" version) or 7x00 (24" version)
Image Directory TOP / -BOTTOM	Location where DI-Camera places the bmp images from the OCR strip Note: Set this directory to the second hard disk (fast SSD disk).
Image Name	OCR image name, use the default name only.

4.2 Tab „Settings“

4.2.1 Setting – Paper Reservoir Handling

Parameter name	Function
LoadPaper	Paper length for the “Load Paper” job and the “Output Now” job. The length is set automatically by the “Load Paper Job” (JobLoad_Txk_1650.prn)
Reservoir Min / Max	Minimum and maximum Length of the Paper Reservoir (Paper Reservoir = Paper between Camera 1 and Camera 2) Mandatory values Min = 700 mm Max = 1200 mm Change the values only after contacting DI technical support
Leading white space for front /back adjustment	Set to 150mm

4.2.2 Setting – Distances

DI-Pilot - DJet 3.0

Print Jobs | Queue Files | Finished Jobs | Folders | **Settings** | About

Paper Reservoir Handling

Load Paper Length: 1650 mm
 Reservoir Minimum: 700 mm
 Reservoir Maximum: 1200 mm
 Leading white space for front/back page adjustment: 150 mm

Time Intervals

Post-print settling time: 11 sec
 Pre-cut settling time: 0 sec
 Post-cut settling time: 0 sec

Distances

Height of white gaps between pages: 300 x 0.1 mm
 Adjust distance bottom cam to print tool: 0 x 0.1 mm

Work Modes

Enable Auto-PrintOut (completes jobs, loads paper): ☐
 Auto-PrintOut gets active after orderless idling of: 600 sec
 LoadPaper: Print wide CodeStrip: ☒

Epson Printing System: T3K ☐ T5K ☐ T7K ☒

Select Language: English

IP Printer Top: 192.168.2.199 IP Printer Bottom: 192.168.2.200 Break SNMP-Communication

Capacity Finished: 9999 Log Frequency: 0 Delete log files older than: 14 days Delete them now

Refresh Status Form Save Config Quit

Parameter name	Function
Height of gaps btw jobs	Set to 300
Adjust distances bottom cam to print tool	<p>Default value is 0 (zero).</p> <p>Note: Adjust this value to register the front/back data in Y direction (paper feed direction)</p>

4.2.3 Setting – Time Intervals

DI-Pilot - DJet 3.0

Print Jobs | Queue Files | Finished Jobs | Folders | **Settings** | About

Paper Reservoir Handling

Load Paper Length: 1650 mm
 Reservoir Minimum: 700 mm
 Reservoir Maximum: 1200 mm
 Leading white space for front/back page adjustment: 150 mm

Distances

Height of white gaps between pages: 300 x 0.1 mm
 Adjust distance bottom cam to print tool: 0 x 0.1 mm

Time Intervals

Post-print settling time: 11 sec
 Pre-cut settling time: 0 sec
 Post-cut settling time: 0 sec

Work Modes

Enable Auto-PrintOut (completes jobs, loads paper) ☐
 Auto-PrintOut gets active after orderless idling of: 600 sec
 LoadPaper: Print wide CodeStrip ☒

Epson Printing System: T3K ☐ T5K ☐ T7K ☒

Select Language: English

IP Printer Top: 192.168.2.199 IP Printer Bottom: 192.168.2.200 Break SNMP-Communication

Capacity Finished: 9999 Log Frequency: 0 Delete log files older than: 14 days Delete them now

Quit

Parameter name	Function
Post-print setting time	Set to 11
Pre-cut setting time	Set to 0
Post-cut setting time	Set to 0

4.2.4 Setting – Work Modes

DI-Pilot - DJet 3.0

Print Jobs | Queue Files | Finished Jobs | Folders | **Settings** | About

Paper Reservoir Handling

Load Paper Length: 1650 mm
 Reservoir Minimum: 700 mm
 Reservoir Maximum: 1200 mm
 Leading white space for front/back page adjustment: 150 mm

Distances

Height of white gaps between pages: 300 x 0.1 mm
 Adjust distance bottom cam to print tool: 0 x 0.1 mm

Time Intervals

Post-print settling time: 11 sec
 Pre-cut settling time: 0 sec
 Post-cut settling time: 0 sec

Work Modes

Enable Auto-PrintOut (completes jobs, loads paper): ☐
 Auto-PrintOut gets active after orderless idling of: 600 sec
 LoadPaper: Print wide CodeStrip: ☒

Epson Printing System: T3K ☐ T5K ☐ T7K ☒

Select Language: English

IP Printer Top: 192.168.2.199 IP Printer Bottom: 192.168.2.200 Break SNMP-Communication

Capacity Finished: 9999 Log Frequency: 0 Delete log files older than: 14 days Delete them now

Refresh Status Form Save Config Quit

Parameter name	Function
Enable Auto-PrintOut	The system outputs all pending jobs which are waiting in the paper loop between TOP and BOTTOM printer after "x" seconds of inactivity (no new jobs arrived)
Auto-PrintOut time	The waiting time to output all jobs
Load Paper Print wide code strip	Activated

4.2.5 Setting – Further Settings

The screenshot shows the 'Settings' tab of the 'DI-Pilot - DJet 3.0' application. The interface is divided into several sections:

- Paper Reservoir Handling:** Includes input fields for 'Load Paper Length' (1650 mm), 'Reservoir Minimum' (700 mm), 'Reservoir Maximum' (1200 mm), and 'Leading white space for front/back page adjustment' (150 mm).
- Distances:** Includes 'Height of white gaps between pages' (300 x 0.1 mm) and 'Adjust distance bottom cam to print tool' (0 x 0.1 mm).
- Time Intervals:** Includes 'Post-print settling time' (11 sec), 'Pre-cut settling time' (0 sec), and 'Post-cut settling time' (0 sec).
- Work Modes:** Includes checkboxes for 'Enable Auto-PrintOut (completes jobs, loads paper)' and 'LoadPaper: Print wide CodeStrip' (checked), and a field for 'Auto-PrintOut gets active after orderless idling of' (600 sec).
- Bottom Section (highlighted with a red box):**
 - Epson Printing System:** Radio buttons for T3K, T5K, and T7K (T7K is selected).
 - Select Language:** A dropdown menu set to 'English'.
 - IP Printer Top:** Input field with '192.168.2.199'.
 - IP Printer Bottom:** Input field with '192.168.2.200'.
 - Break SNMP-Communication:** A button.
 - Capacity Finished:** Input field with '9999'.
 - Log Frequency:** Input field with '0'.
 - Delete log files older than:** Input field with '14' days.
 - Delete them now:** A button.

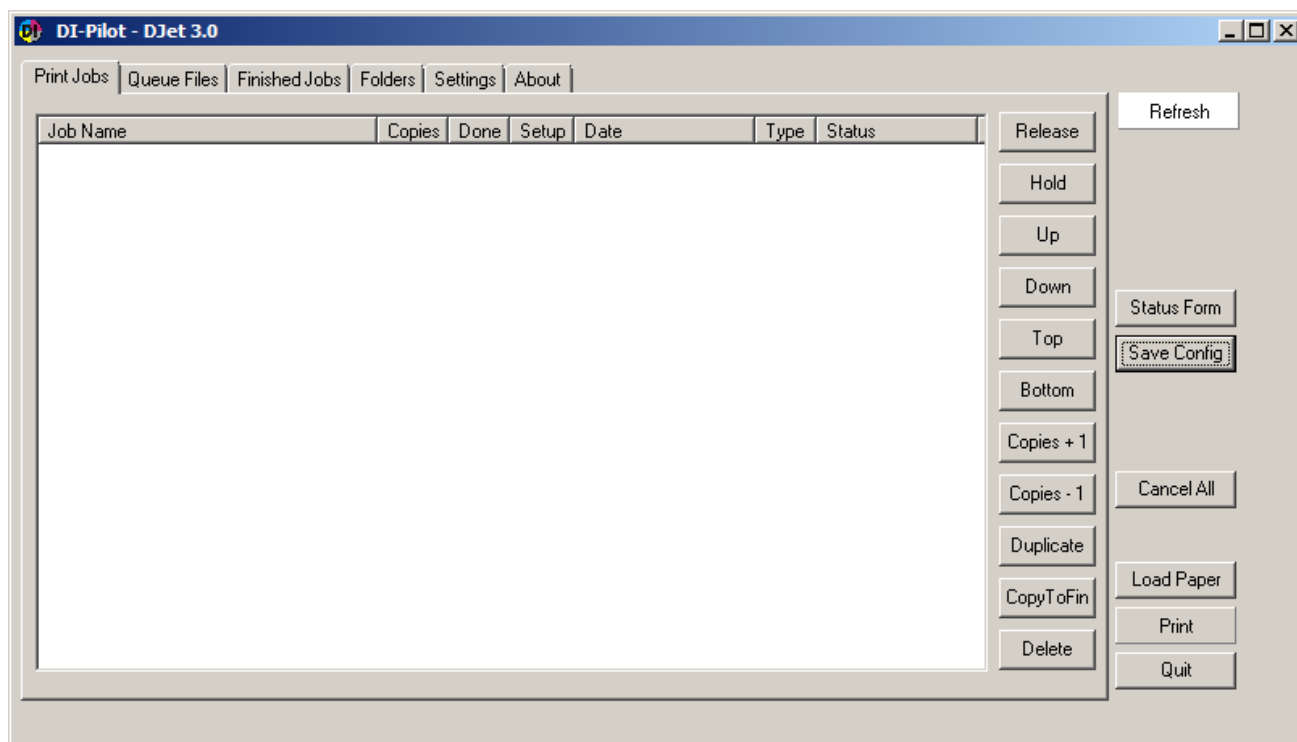
Other visible elements include a 'Refresh' button, 'Status Form', 'Save Config', and a 'Quit' button. A large blue circle with the number '5' is also present on the right side.

Parameter name	Function
Epson Printing System	Select the T-Series printer T3000, T5000 or T7000
Select Language	Select the UI language
IP Printer Top	Set the TOP printer's IP address Note: before changing the address, press the button "Break SNMP-Com"
IP Printer Bottom	Set the Bottom printer's IP address Note: before changing the address, press the button "Break SNMP-Com"
Capacity Finished	Number of printed jobs which are kept for reprint in the Finished Jobs area
Log Frequency	The value zero disables logging. Activate the logs by changing the value to 8.
Delete log files older than	The period of time in days to keep log file available. Older ones are deleted automatically.

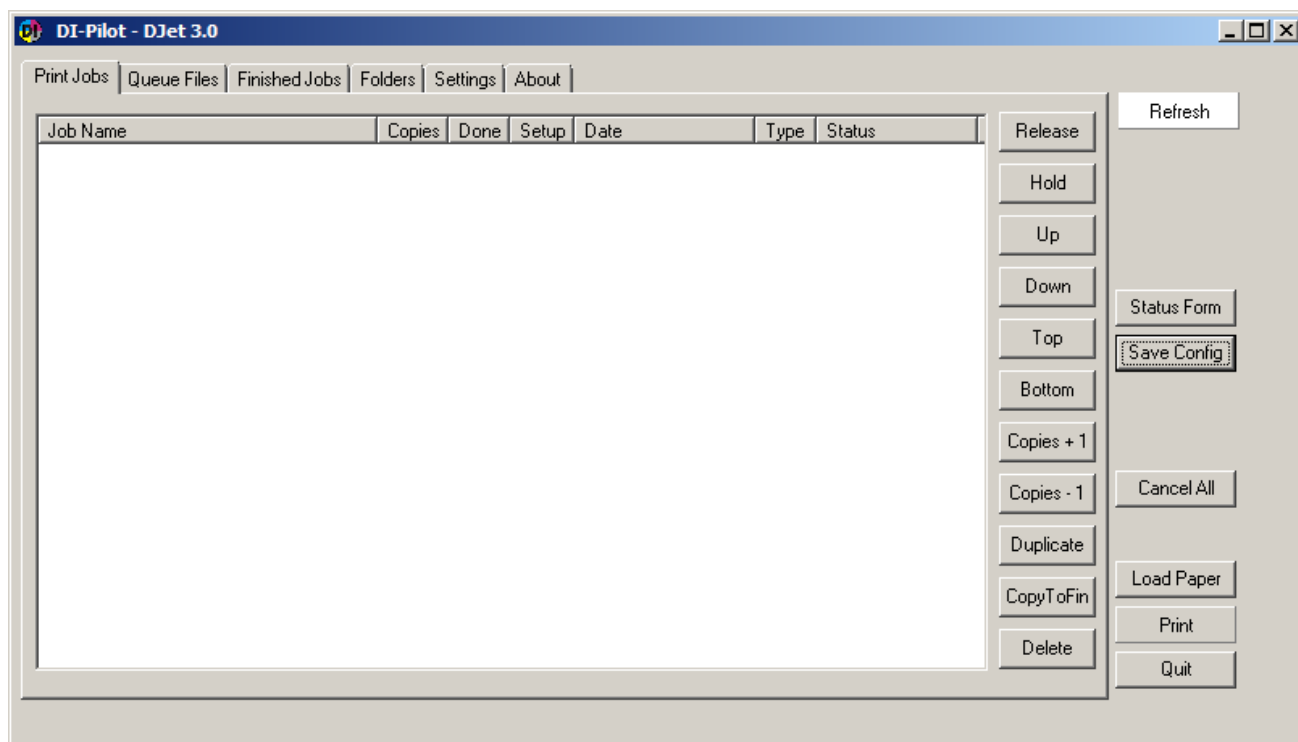
5 DI-Pilot

5.1 Manage Print Jobs

5.1.1 Tab Print Jobs

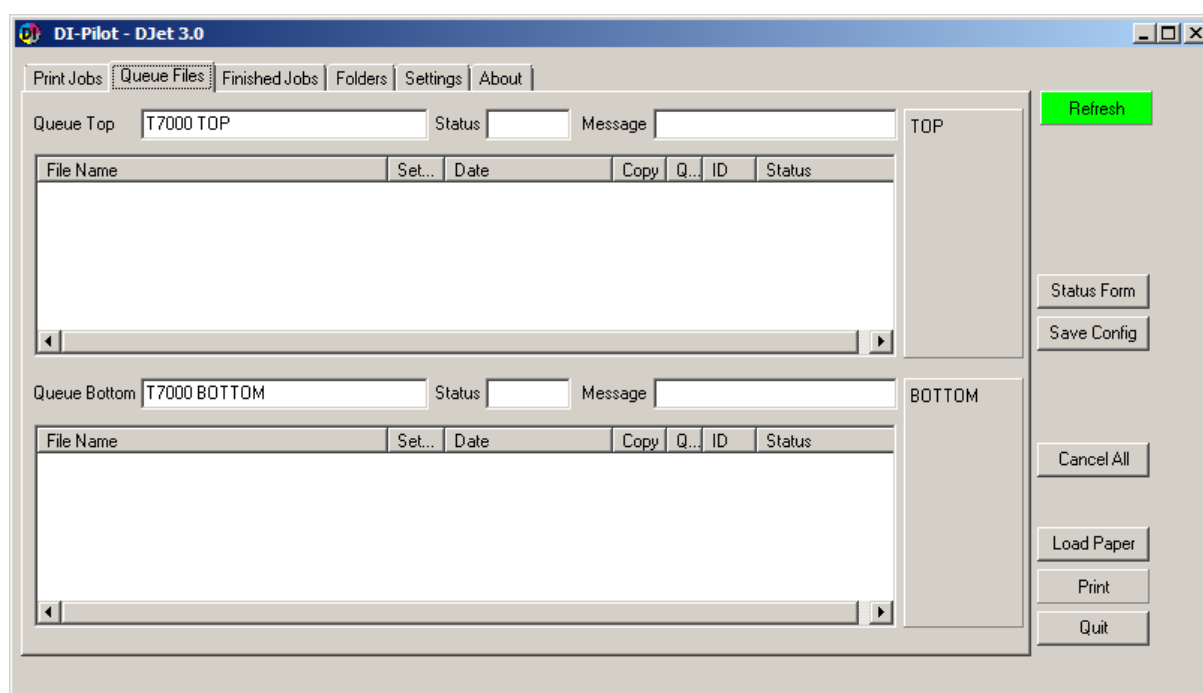


All processed and pending print jobs created by DI-Plot appear in this tab.



Button	Function
Release	Change the job status from Hold to Release
Hold	Change the job status from Release to Hold.
Up	Change the job position in the list
Down	Change the job position in the list
Top	Change the job to the top position
Bottom	Change the job to the lowest position
Copies +1	Increase the number of copies by 1
Copies -1	Decrease the number of copies by 1
Duplicate	Duplicates a job
Copy to fin	Copies the job to the tab Finished jobs
Delete	Deletes the job

5.1.2 Tab Queue Files

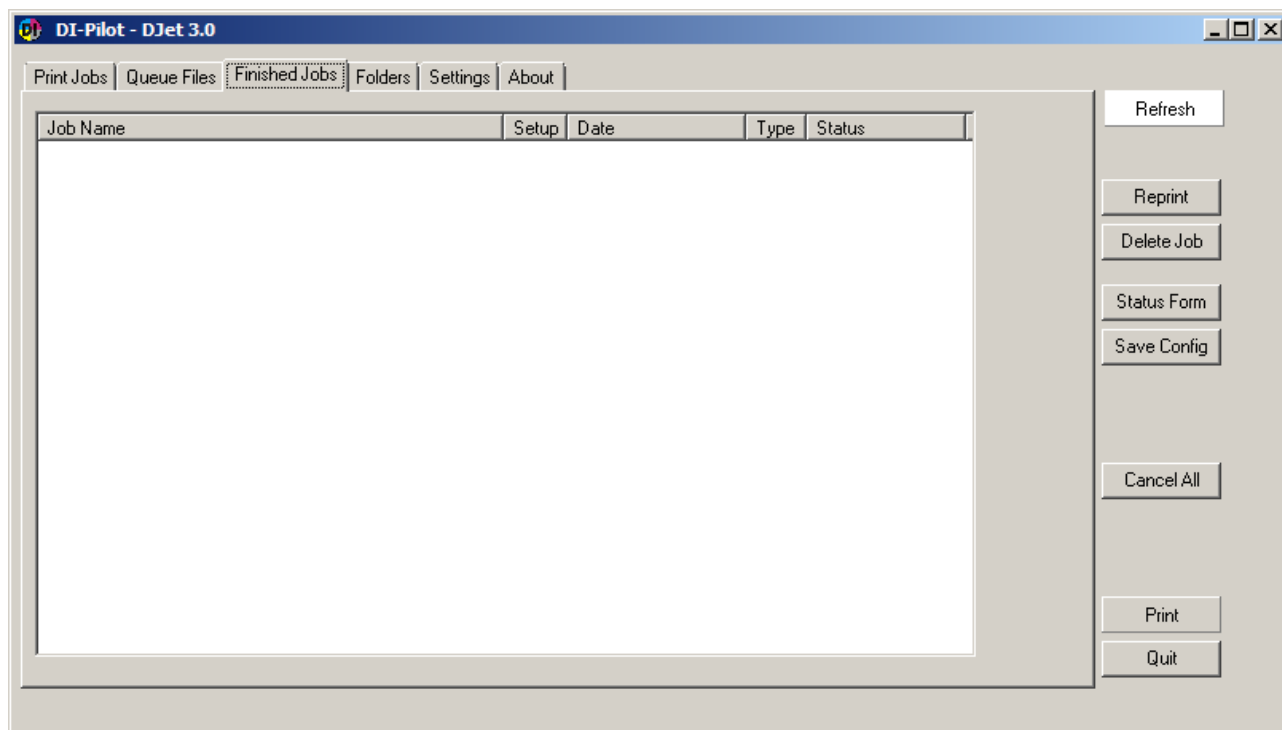


This is the working window with the printer queues for printer FRONT and BACK. Currently printing jobs appear here either with status PRINTING or PAUSED.

Start from here a “Load paper” process. Loading paper can be done only when the button PRINT is gray. After successfully loading the paper to the DJet, activate the system with the button Print which then turns to green.

Button	Function
Status Form	Shows the camera values and the printer status in an additional window.
Save config	Saves current setup
Cancel	Deletes all jobs from the queues.
Load Paper	Prints the “Load Paper” job
Print	Activates / Deactivates printing
Quit	Quits the program

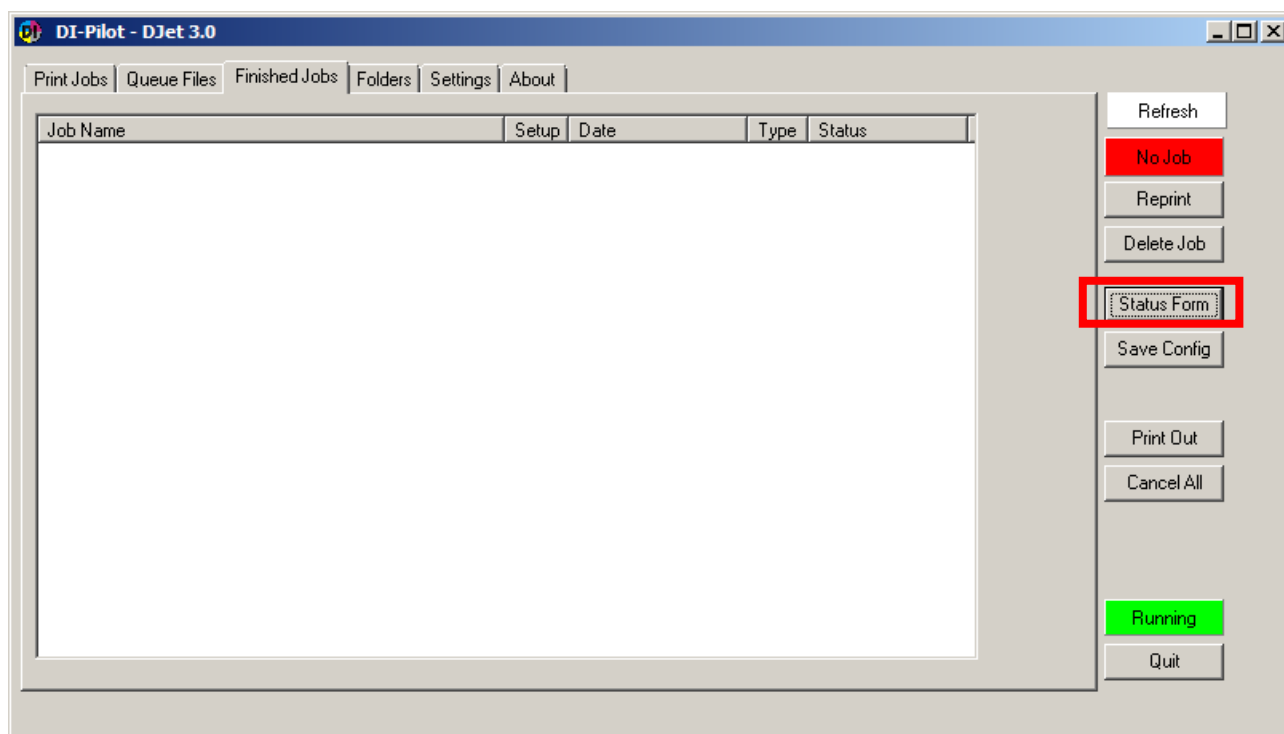
5.1.3 Tab Finished Jobs



A job completed job appears in the “Finished Job” list. With the button “Reprint” an already printed job is resent to the “Print Job” area. By default, the job becomes the status “Hold”. To send it to the queues the status need to be changed to “Ready”.

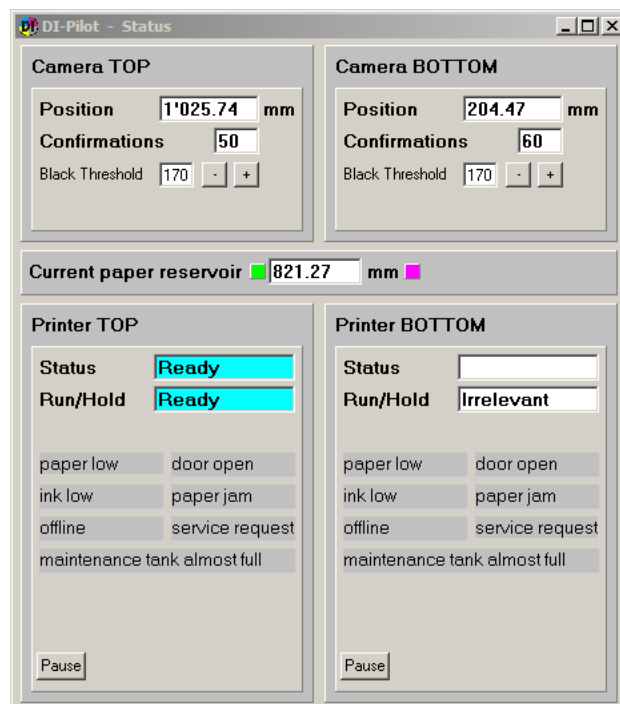
Use the button “Delete Jobs” to remove jobs from the list. The buttons “Quit” ends the program.

5.2 Status Window for Printers and Cameras



Use the button “Status Form” to display the status window.

In a separate window the status for both cameras and the paper reservoir is indicated.

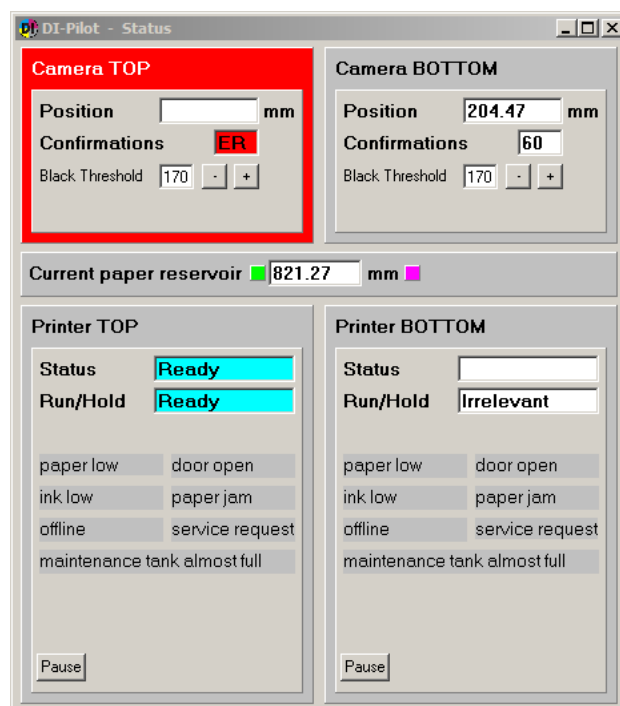


5.2.1 Status Window – Error Indicator

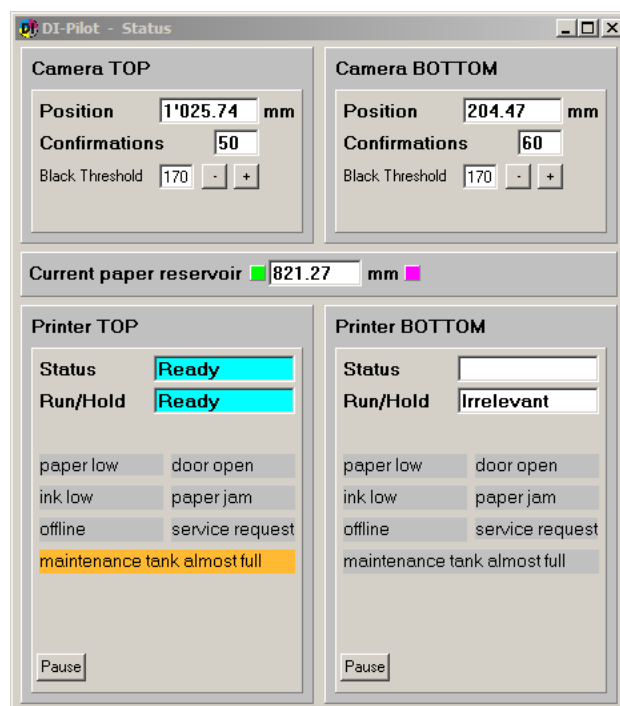
A red frame indicates a camera problem. The camera is not able to process current receiving image.

Caused by:

- USB cable disconnected
- OCR code is invalid (check DI-Camera)
- OCR code is not printed correctly
- Distance between camera lens and paper is not correct



The printer status such as low ink, low paper etc is highlighted orange or red.

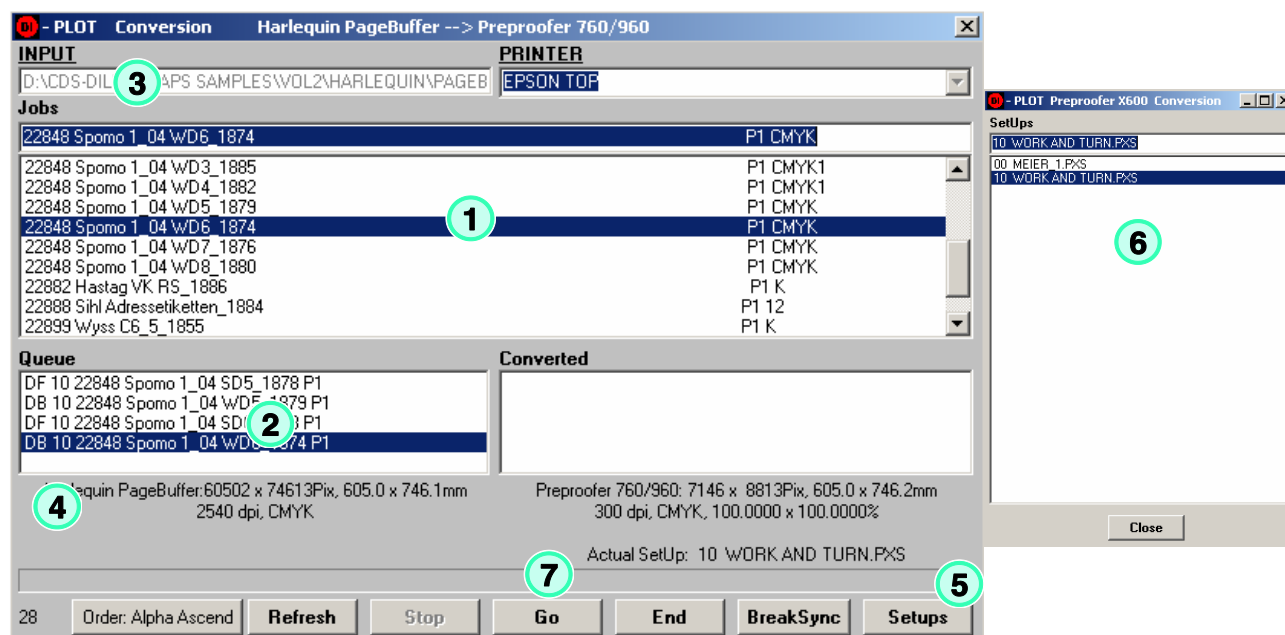
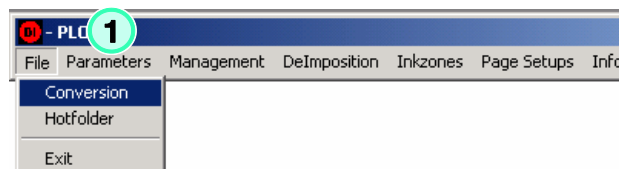


6 Register Front and Back side

6.1 Start DI-Plot

During registration process, use the software in manual mode.

Open in DI-Plot the menu File → Conversion (1)



Print jobs:

- 1) All workflow jobs are displayed in the job list area (1).
- 2) Select first the correct page template using the button "Setups" (5).
- 3) It opens the PageSetup list (6). Select a page setup
- 4) Then select a job from the job list area (1) by clicking once on it.
- 5) The selected job gets into the Queue waiting list area (2).
- 6) To deselect a job from the Queue waiting list area, click on it. The job disappears.
- 7) Start to process the jobs with the button (7)

8)	9) Parameter name	10) Function
(1)	Job list area	Shows all jobs from the selected input directory. Displays the job name, page number and the colours. Spot colours will be shown as numbers. E.g. CMY123 (CMYK job with 3 spot colours)
(2)	Queue list area	All select jobs get into the queue area. Visible parameters <ul style="list-style-type: none"> – DF = Front job, front side setting from template is active – DB = Back job; back side setting from template is active – 00..99 = Page ID from the selected page template
(3)	Input path	Shows the input directory
(4)	Job information	Information from the selected job. Shows data type, size in pixel and millimetre. Resolution and number of colour planes

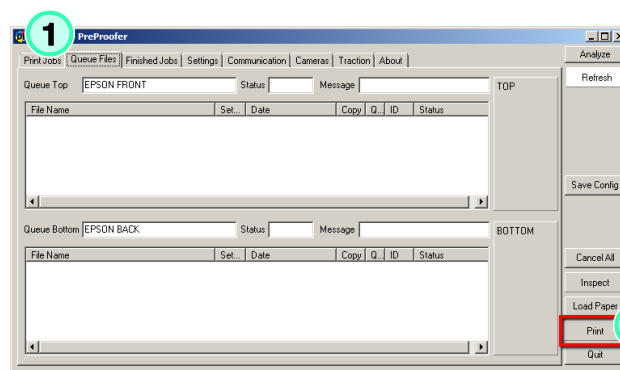
	Control buttons	Function
	Order alpha/time descent/ascent	Job sequence by name or by date/time
	Refresh	Reads the input directory
	Stop	Stops the conversion process
	Go	Starts the conversion process
	End	Quits the conversion menu
	BreakSync	Resets the conversion mode
	Setups	Opens a window (21) where all available job templates are displayed. Select the template here

6.2 Start DI-P i lot Output Manager

Start the software and go to the Tab “Queue Files”

(1). Activate here the software by selecting the button “Print” (2).

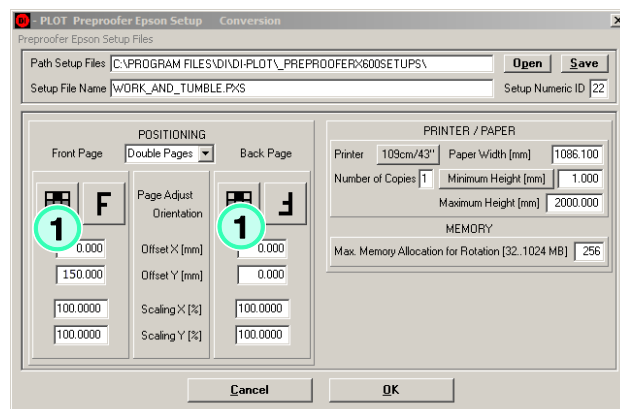
The button changes to green (=output is active).



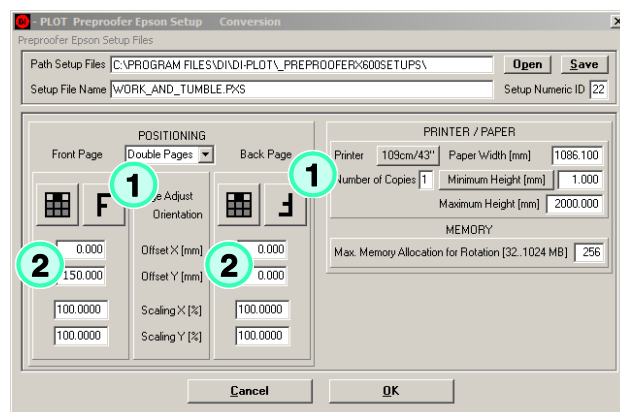
6.3 Adjust Front and Back Side

To adjust the register for front / back proceed like:

- 1.) Select the alignment centred (1)
Standard is centred for both sides.



- 2.) Select the orientation (1). With a click on the F, the next setting can be selected.
For the front side, set the offset for X and Y to 0.
For the back side, set the Y value to 150 and the X value to 0 (2).



- 3.) Process and print several front/back jobs
- 4.) Measure the registration. If necessary, scale the x and/or y axis for front and back.

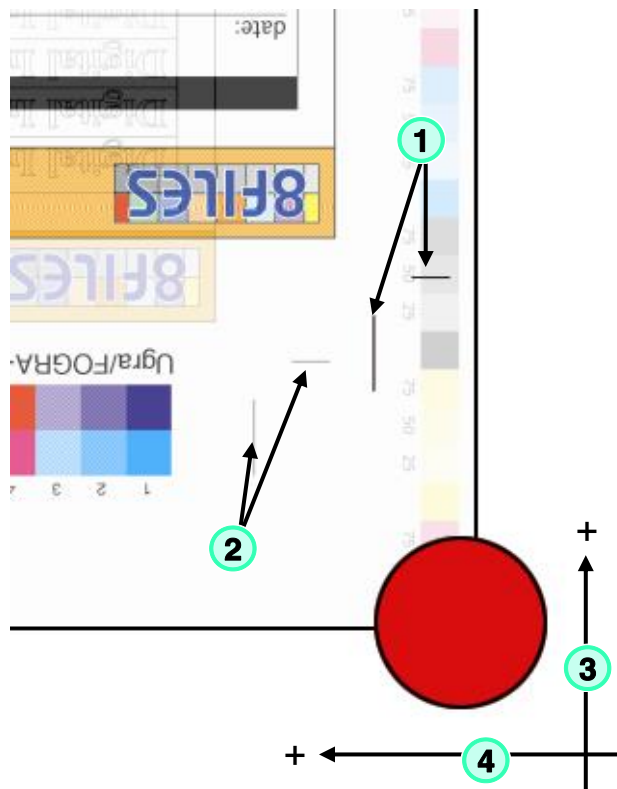
5.) The job comes out on the back printer. We look now on the back side like:



- (1) Print head direction, X axis
- (2) Paper feed direction, Y axis
- (3) Reference point back side: X and Y = 0

6.) Put the sheet on a light table or use a flashlight.
Measure the distance between the register marks of the front and back side

- (1) Register mark back side
- (2) Register mark front side
- (3) Y axis (paper feed direction)
- (4) X axis (print head direction)



7.) The measured difference in this example would be:

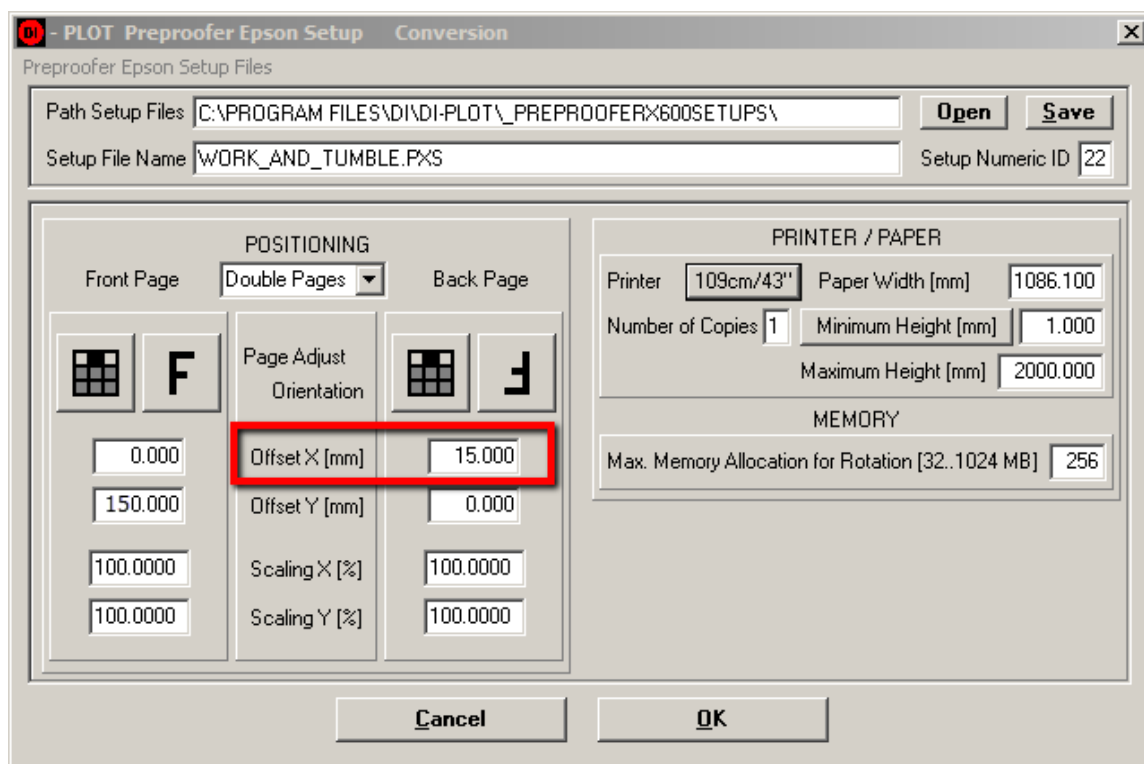
Deviation X = 15 mm

Deviation Y = 9 mm

In the x direction, the crop mark from the back side is too much on the right. To register the x axis, the image on the back side has to move to the left (into the sheet, away from the paper edge). Therefore the correction value is positive, +15 mm.

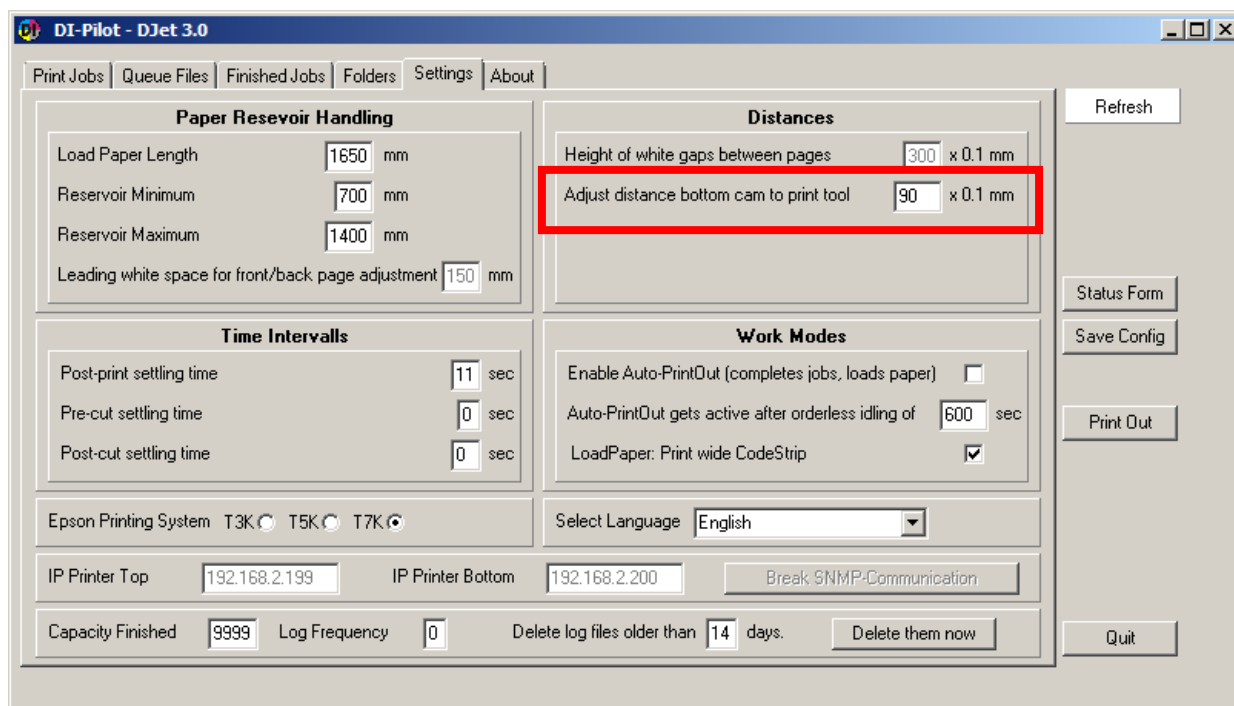
In the y direction, the crop mark from the back side is too high up. To register the y axis, the image on the back side has to move down (move towards the paper edge). Therefore the correction offset value is negative, -9 mm.

6.3.1 Registration Adjustment X Direction



The correction value is applied in the DI-Plot page template. Apply the correction only to the back side. If later on more correction is necessary, add the difference to the existing value. Don't forget to recalculate the job to apply the adjustment.

6.3.2 Registration Adjustment Y Direction



The correction for the Y axis (paper feed direction) is applied in the DI-Pilot. Change to the Tab "Settings" and apply the registration correction in "Adjust distance bottom cam to print tool". For adjustment add or remove the difference from the current value.

7 Hotfolder Mode

7.1 Workflow Job File Names

Run the software in hotfolder mode to automate it for 100%. Setup the prepress workflow to produce input files for DI-Plot, which can be recognized as a front or back side based on their job name.

Example:

Job name	Explanation
98120SpeschaBuchF1SD.tif 98120SpeschaBuchF1WD.tif	→ Front and back page for the first sheet of the job 98120SpeschaBuch → Front side is marked as SD, back side as WD
98120SpeschaBuchF2SD.tif 98120SpeschaBuchF2WD.tif	→ Front and back page for the second sheet of the job 98120SpeschaBuch → Front side is marked as SD, back side as WD
98596FarnerF1SD.tif 98596FarnerF1WD.tif	→ Front and back page for the first sheet of the job 98596Farner → Front side is marked as SD, back side as WD
98596FarnerF2SD.tif 98596FarnerF2WD.tif	→ Front and back page for the second sheet of the job 98596Farner → Front side is marked as SD, back side as WD

7.2 Work Types

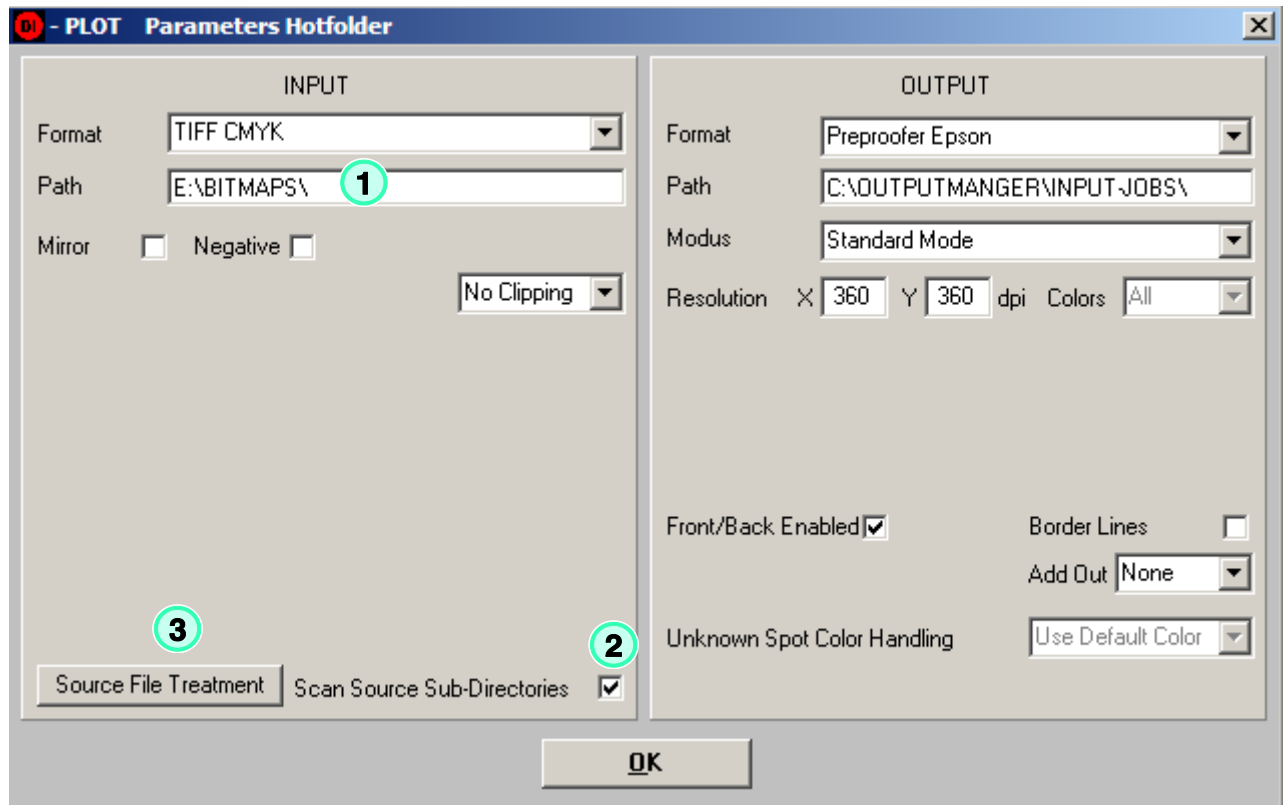
Depending on how the job will be printed on the press type (w/wo perfector) etc., there are different work types to be

Work Type	Explanation
Single sided	Printing on one side of the paper only
Sheet work	Turning the paper, printing different data on both sides of the paper
Perfector	Tumbling the paper, printing different data on both sides of the paper
Work and Turn	Turning the paper, printing the same data on both sides of the paper
Work and Tumble	Tumbling the paper, printing the same data on both sides of the paper

7.3 Setup Hotfolders

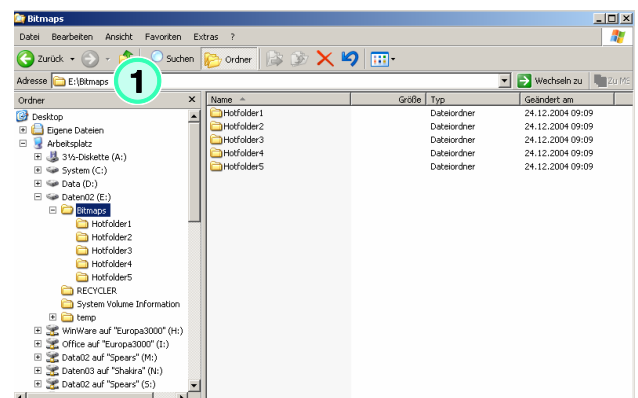
To setup DI-Plot for multiple hotfolder, proceed like:

1.) Set the root directory for the hotfolders

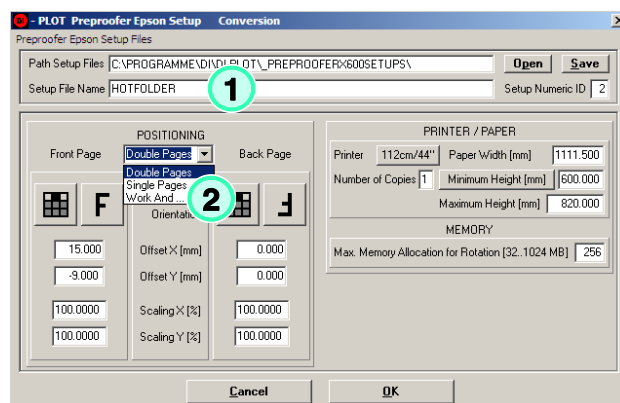


	Parameter name	Function
(1)	Input path	The input folder will be the root folder for all hotfolders
(2)	Scan Source Sub-Directories	Activate it to enable the program to scan the subfolders
(3)	Source File Treatment	Set to ERASE after processing

Example:



Assign to each input hotfolder an individual “Setup hotfolder” template with the according work style.



	Parameter name	Function
(1)	Setup File Name	Set this name equal the name of the hotfolder.
(2)	Positioning: Double Pages	Printing different jobs on both sides
(2)	Positioning: Single Pages	Job will be printed on the front side, back side is empty
(2)	Positioning: Work and...	Printing same job on both sides
(3)	Parameters	Set the parameters for your work style. Define the front/back x, y offset values for registration. Set the scaling factor if necessary.

To follow the example, the Setup File Name for the other “Setup hotfolders” templates would be:

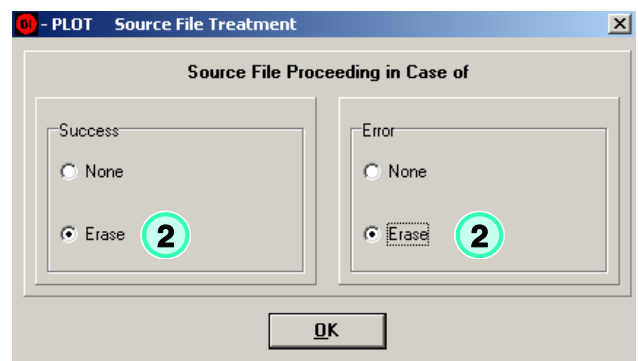
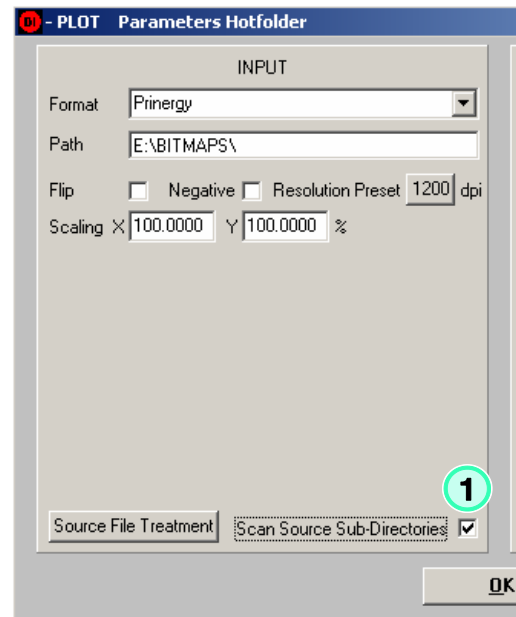
Hotfolder2.pxs
Hotfolder3.pxs
Hotfolder4.pxs
Hotfolder5.pxs

Note

The link between the “hotfolder directory” and the template is by using the same name.

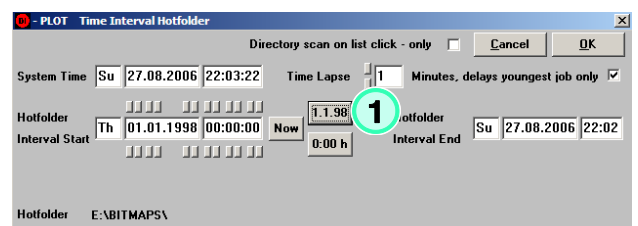
Important

Set the checkbox “Scan source sub directories” (1).
The software checks all hotfolder subdirectories.
Open “Source File Treatment” and set the options to
“Erase” (2).



Open the menu “Parameters” -> “Time Interval Hotfolder”.

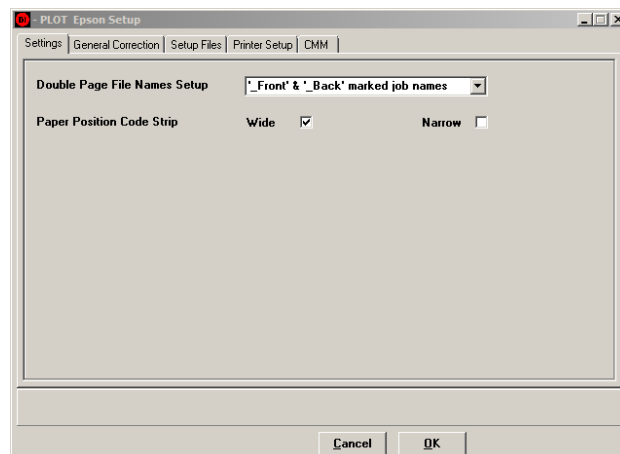
Set the “Hotfolder Interval Start” to the start date 1.1.98 by pressing the button “1.1.98” (1). All jobs are processed younger than 1.1.98 which are basically all.



7.4 Name Schemes for Hotfolder Mode

The software needs to know the file name convention for the front and back side TIFF files created by the prepress workflow.

Select here the correct workflow name scheme.



Name scheme example

Name scheme	File examples	
Agfa PrintDrive	Front side Jobname_Front_cmyk.ps	Back side Jobname_Back_cmyk.ps
Chronologic	Jobs get processed according to first come, first serve: 1.) First job goes to FRONT 2.) Second job goes to BACK 3.) First job goes to FRONT 4.)	
Creo Prinergy Separated TIFFs	Front side Jobname.1A.C.TIF Jobname.1A.M.TIF Jobname.1A.Y.TIF Jobname.1A.K.TIF OR Jobname.2A.C.TIF Jobname.2A.M.TIF Jobname.2A.Y.TIF Jobname.2A.K.TIF OR Jobname.2C.C.TIF Jobname.2C.M.TIF Jobname.2C.Y.TIF Jobname.2C.K.TIF etc.	Back side Jobname.1B.C.TIF Jobname.1B.M.TIF Jobname.1B.Y.TI Jobname.1B.K.TIF OR Jobname.2B.C.TIF Jobname.2B.M.TIF Jobname.2B.Y.TIF Jobname.2B.K.TIF OR Jobname.2D.C.TIF Jobname.2D.M.TIF Jobname.2D.Y.TIF Jobname.2D.K.TIF etc.
Composite TIFFs	Front side Jobname.1A.CMYK.TIF OR Jobname.1C.CMYK.TIF OR Jobname.2A.CMYK.TIF etc. Note Connecting the PP system to Prinergy: – In Prinergy choose composite tiff output and set compression to None – In DI-Plot choose uncompressed tiff as input format and Creo Prinergy as Name Scheme	Back side Jobname.1B.CMYK.TIF OR Jobname.1D.CMYK.TIF OR Jobname.2B.CMYK.TIF etc.

Name scheme	File examples	
Heidelberg Delta	Front side	Back side
Delta file holds 1 page	Name_Schoen_1.DeltaExport	Nname_Wider_1.DeltaExport
Delta file holds 1 page	Name_Schoen&Wider_1.DeltaExport	Name_Schoen&Wider_2.DeltaExport
Delta file holds 2 pages (front & back)	Name_Schoen&Wider_1.DeltaExport (Page 1)	Name_Schoen&Wider_1.DeltaExport Page 2)
Delta file holds 1 page	Name_S01.DeltaExport	Name_W01.DeltaExport
Heidelberg Metadimension V1.xx	Front side	Back side
	Jobname_S01.pdf_01_F.tif	Jobname_W01.pdf_01_F.tif
	Jobname_01.pdf_01_F.tif	Jobname_01.pdf_02_F.tif
Heidelberg Metadimension V2xx	Front side	Back side
	Jobname_F.TIF	Jobname_B.TIF
Screen Trueflow	Front side	Back side
	Jobname_Front.ps	Jobname_Back.ps
Brisque	Front side	Back side
	Jobname_BG1SD-S1-W1-F0.ch	Jobname_BG1SD-S1-W1-F0.ch
	Jobname_1SD-S1-W1-F0.ch	Jobname_1WD-S1-W1-B0.ch
'_F' & '_B' marked jobs	Front side	Back side
	Jobname_F	Jobname_B
'_Front' & '_Back' marked jobs	Front side	Back side
	Jobname_Front	Jobname_Back

7.5 Colour Separated Input

By using separated 1 Bit or 8 Bit TIFF files, the software does not know how many colour separation a job contains.

The "Time Lapse" parameter sets the waiting time between the separation files of a job.

Depending on the performance of the workflow server, it may take several minutes till the next colour separation comes in.

A slow system needs a high value; a fast system will work with the value set to 1.

