



## Canon imagePROGRAF PRO Series

This document describes the supported feature and options of the Canon iPF Pro N100 series printer driver for Fiery XF.

### Supported printer

- Canon imagePROGRAF PRO-2100
- Canon imagePROGRAF PRO-521 (Asia version of PRO-2100)
- Canon imagePROGRAF PRO-4100
- Canon imagePROGRAF PRO-541 (Asia version of PRO-4100)
- Canon imagePROGRAF PRO-6100
- Canon imagePROGRAF PRO-561 (Asia version of PRO-6100)
- Canon imagePROGRAF PRO-4100S
- Canon imagePROGRAF PRO-541S (Asia version of PRO-4100S)
- Canon imagePROGRAF PRO-6100S
- Canon imagePROGRAF PRO-561S (Asia version of PRO-6100S)

## Specification Summary

	imagePROGRAF PRO-2100	imagePROGRAF PRO-4100
Printer Type	12 Colour 24"/610mm	12 Colour 44"/1118mm
Print Technology	Canon Bubblejet on Demand 12 colours integrated type (12 chips per print head x 1 print head)	←
Number of Nozzles	18,432 nozzles (1536 nozzles x 12 colour)	←
Print Resolution	2400 dpi x 1200 dpi	←
Nozzle Pitch	600 dpi x 2 includes Non-firing nozzle detection and compensation system	←
Ink Droplet Size	minimum 4 pl per colour	←
Ink Capacity	Sales Ink: 160ml/330ml/700ml Bundled Starter Ink: 160ml	Sales Ink: 160ml/330ml/700ml Bundled Starter Ink: 190ml
Ink Type	Pigment inks – Black, Matte Black, Cyan, Magenta, Yellow, Photo Cyan, Photo Magenta, Grey, Photo Grey, Red, Blue, Chroma Optimiser	←
Printer Languages	SG Raster (Swift Graphic Raster), PDF (Ver.1.7), JPEG (Ver. JFIF 1.02)	←
Standard Interfaces	Ethernet: 10/100/1000 base-T Wireless LAN: IEEE802.11n/IEEE802.11g/IEEE802.11b	←
Media Feed and Output	Roll Paper: One Roll, Front-loading, Front Output Optional Roll Paper: One Roll, Front-loading, Front Output Cut Sheet: Front-loading, Front Output (Manual feed using media locking lever)	Roll Paper: Two Roll, Front-loading, Front Output Cut Sheet: Front-loading, Front Output (Manual feed using media locking lever)
Media Width	Roll paper: 152.4 ~ 610 mm Cut sheet: 152.4 ~ 610 mm	Roll paper: 152.4 ~ 1118 mm Cut sheet: 152.4 ~ 1118 mm
Minimum Printable Length	Roll paper: 101.6 mm Cut sheet: 203.2 mm	←
Media Take-up roll unit	Optional - Dual direction roll take up unit allowing print surface to be wound inside or outside of the roll	←
Borderless Printing Width (Roll Only)	Enabled for all roll sizes	←

imagePROGRAF PRO-6100	
Printer Type	12 Colour 60"/1524mm
Print Technology	Canon Bubblejet on Demand 12 colours integrated type (12 chips per print head x 1 print head)
Number of Nozzles	18,432 nozzles (1536 nozzles x 12 colour) <small>*The four key colours (C, M, Y, MBk) are arranged symmetrically on the print head</small>
Print Resolution	2400 dpi x 1200 dpi
Nozzle Pitch	600 dpi x 2 includes Non-firing nozzle detection and compensation system
Ink Droplet Size	minimum 4 pl per colour
Ink Capacity	Sales use: 160ml/330ml/700ml Bundled Starter Ink: 190ml
Ink Type	Pigment inks – Black, Matte Black, Cyan, Magenta, Yellow, Photo Cyan, Photo Magenta, Grey, Photo Grey, Red, Blue, Chroma Optimiser
Printer Languages	SG Raster (Swift Graphic Raster), PDF (Ver.1.7), JPEG (Ver. JFIF 1.02)
Standard Interfaces	Ethernet: 10/100/1000 base-T Wireless LAN: IEEE802.11n/IEEE802.11g/IEEE802.11b
Media Feed and Output	Roll Paper: Two Roll, Front-loading, Front Output Cut Sheet: Front-loading, Front Output (Manual feed using media locking lever)
Media Width	Roll paper: 152.4 ~ 1524 mm Cut sheet: 152.4 ~ 1524 mm
Minimum Printable Length	Roll paper: 101.6 mm Cut sheet: 203.2 mm
Margins Printable area	Roll paper: Top: 3 mm, Bottom: 3 mm, Side: 3 mm Roll paper (borderless): Top: 0 mm, Bottom: 0 mm, Side: 0 mm
Media Feed Capacity	Cut sheet: Top: 3 mm, Bottom: 20 mm, Side: 3 mm Roll Paper: Two roll automatic switching possible Cut Sheet: 1 sheet
Media Take-up roll unit	Dual direction roll take up unit allowing print surface to be wound inside or outside of the roll
Borderless Printing Width (Roll Only)	Enabled for all roll sizes

	imagePROGRAF PRO-4100S	imagePROGRAF PRO-6100S
Printer Type	12 Colour 44"/1118mm	12 Colour 60"/1524mm
Print Technology	Canon Bubblejet on Demand 8 colours integrated type (12 chips per print head x 1 print head)	←
Number of Nozzles	18,432 nozzles (1536 nozzles x 12 colour) <small>*The four key colours (C, M, Y, MBk) are arranged symmetrically on the print head</small>	←
Print Resolution	2400 dpi x 1200 dpi	←
Nozzle Pitch	600 dpi x 2 includes Non-firing nozzle detection and compensation system	←
Ink Droplet Size	minimum 4 pl per colour	←
Ink Capacity	Sales use: 160ml/330ml/700ml Starter use: 330ml (C, M, Y, MBk), 190ml(PC, PM, Bk,GY)	←
Ink Type	Pigment inks – Black, Matte Black, Cyan, Magenta, Yellow, Photo Cyan, Photo Magenta, Grey	←
Printer Languages	SG Raster (Swift Graphic Raster), PDF (Ver.1.7), JPEG (Ver. JFIF 1.02)	←
Standard Interfaces	Ethernet: 10/100/1000 base-T Wireless LAN: IEEE802.11n/IEEE802.11g/IEEE802.11b	←
Media Feed and Output	Roll Paper: One Roll, Front-loading, Front Output Optional Roll Paper: One Roll, Front-loading, Front Output Cut Sheet: Front-loading, Front Output (Manual feed using media locking lever)	Roll Paper: Two Roll, Front-loading, Front Output Cut Sheet: Front-loading, Front Output (Manual feed using media locking lever)
Media Width	Roll paper: 152.4 ~ 1118 mm Cut sheet: 152.4 ~ 1118 mm	Roll paper: 152.4 ~ 1524 mm Cut sheet: 152.4 ~ 1524 mm
Minimum Printable Length	Roll paper: 101.6 mm Cut sheet: 203.2 mm	←
Margins Printable area	Roll paper: Top: 3 mm, Bottom: 3 mm, Side: 3 mm Roll paper (borderless): Top: 0 mm, Bottom: 0 mm, Side: 0 mm	←
Media Feed Capacity	Cut sheet: Top: 3 mm, Bottom: 20 mm, Side: 3 mm Media Feed Capacity Roll Paper: One roll. If second option is added then automatic switching is possible	Cut sheet: Top: 3 mm, Bottom: 20 mm, Side: 3 mm Roll Paper: Two roll automatic switching possible Cut Sheet: 1 sheet
Media Take-up roll unit	Optional - Dual direction roll take up unit allowing print surface to be wound inside or outside of the roll	Dual direction roll take up unit allowing print surface to be wound inside or outside of the roll
Borderless Printing Width (Roll Only)	Enabled for all roll sizes	←

## Supported OS

- Windows 10
- Windows 11

## Color Mode

- CMYK Contone
- RGB

## Ink Configuration

- Canon imagePROGRAF PRO 2100/4100/6100
  - LUCIA PRO 12 inks
- Canon imagePROGRAF PRO 4100S/6100S
  - LUCIA PRO 8 inks

## Supported media tray

- Canon imagePROGRAF PRO 2100/4100/6100/4100S/6100S
  - Roll Paper (Auto)  
Automatic roll switching is available if a second roll tray is installed.
  - Roll 1
  - Roll 2  
Standard for Pro 6100/6100S and an option for all other models
  - Manual tray

## Supported media sizes:

### Pro 2100/521/4100/541/4100S/541S/6100/561/6100S/561S

- Roll Paper (Auto) / Roll 1 / Roll 2

Media size	PRO 2100	PRO 4100/4100S	PRO 6100/6100S	Borderless
6inch – Max width.	✓	✓	✓	✓
1000 mm		✓	✓	✓
800 mm	✓	✓	✓	✓
600 mm	✓	✓	✓	✓
500 mm	✓	✓	✓	✓
300 mm	✓	✓	✓	✓
ISO A0 Roll (841 x 15000 mm)		✓	✓	✓
ISO A1 Roll (594 x 15000 mm)	✓	✓	✓	✓
ISO A2 Roll (420 x 15000 mm)	✓	✓	✓	✓
ISO A3+ Roll (329 x 15000 mm)	✓	✓	✓	✓
ISO A3 Roll (297 x 15000 mm)	✓	✓	✓	✓
JIS B0 Roll (1030 x 15000 mm)		✓	✓	✓
JIS B1 Roll (728 x 15000 mm)		✓	✓	✓
JIS B2 Roll (515 x 15000 mm)	✓	✓	✓	✓
JIS B4 Roll (257 x 15000 mm)	✓	✓	✓	✓

▪ Manual tray

Media size	PRO 2100	PRO 4100/4100S	PRO 6100/6100S
ISO A0 (841 x 1189 mm)		✓	✓
ISO A1 (594 x 841 mm)	✓	✓	✓
ISO A2+ (17x24 inch)	✓	✓	✓
ISO A2 (420 x 594 mm)	✓	✓	✓
ISO A3+ (329 x 483 mm)	✓	✓	✓
ISO A3 (297 x 420 mm)	✓	✓	✓
ISO A4 (210 x 297 mm)	✓	✓	✓
ISO B0 (1000x1414 mm)		✓	✓
ISO B1 (707 x 1000 mm)		✓	✓
ISO B2 (500 x 707 mm)	✓	✓	✓
ISO B3 (353 x 500 mm)	✓	✓	✓
ISO B4 (250 x 353 mm)	✓	✓	✓
JIS B0 (1030 x 1456 mm)		✓	✓
JIS B1 (728 x 1030 mm)		✓	✓
JIS B2 (515 x 728 mm)	✓	✓	✓
JIS B3 (364 x 515 mm)	✓	✓	✓
JIS B4 (257 x 364 mm)	✓	✓	✓
ANSI E (34 x 44 inch)		✓	✓
ANSI F (28 x 40 inch)		✓	✓
ANSI D (22 x 34 inch)	✓	✓	✓
ANSI C (17 x 22 inch)	✓	✓	✓
ANSI B (11 x 17 inch)	✓	✓	✓
ANSI B Super	✓	✓	✓
Letter (8.5 x 11 in)	✓	✓	✓
ANSI Legal	✓	✓	✓

ARCH E (36 x 48 inch)		✓	✓
ARCH E1 (30 x 42 inch)		✓	✓
ARCH E2 (26 x 38 inch)		✓	✓
ARCH E3 (27 x 39 inch)		✓	✓
ARCH D (24 x 36 inch)	✓	✓	✓
ARCH C (18 x 24 inch)	✓	✓	✓
ARCH B (12 x 18 inch)	✓	✓	✓
ARCH A ( 9 x 12 inch)	✓	✓	✓
DIN C0 (917 x 1296 mm)		✓	✓
DIN C1 (648 x 917 mm)		✓	✓
DIN C2 (458 x 648 mm)	✓	✓	✓
DIN C3 (324 x 458 mm)	✓	✓	✓
DIN C4 (229 x 324 mm)	✓	✓	✓
20 x 24 inch	✓	✓	✓
18 x 22 inch	✓	✓	✓
14 x 17 inch	✓	✓	✓
12 x 16 inch	✓	✓	✓
10 x 12 inch	✓	✓	✓
10 x 15 inch	✓	✓	✓
8 x 10 inch	✓	✓	✓
US Photo 16x20 inch	✓	✓	✓
Poster 20 x 30 inch	✓	✓	✓
Poster 30 x 40 inch		✓	✓
Poster 42 x 60 inch		✓	✓
Poster 44 x 62 inch		✓	✓
Poster (300x900mm)	✓	✓	✓
13 x 22 inch (Canon)	✓	✓	✓



## First Steps

Fiery XF needs a valid ethernet connection to the imagePROGRAF printer.

As soon as the port is set up correctly and the printer is online, Fiery XF will download the media information from the printer.

In case of the RGB driver version the RIP will create EPL/ICC s from the printer information.

So, it is possible to directly use the printer without a need to create an EPL/ICC.

This functionality also supports custom paper uploaded to the printer.

## Troubleshooting

- Double check if the port settings are correct and the printer is power on.
- The communication and data loading from the printer will need some time. Wait for at least 2 minutes for network connection. You can see progress of synchronization in driver status section in special settings.
- The media information will only read once at application start time. To download again the complete set of ICCs and media information, click on sync button in special settings. To download only media information, click update button in special settings.
- Finally, if all doesn't help, please restart the Fiery XF server.

## Job tracking and accounting

- Once job is sent to the printer, the remaining printing progress will be shown in the progress section in command workstation and job will only show complete when it has printed correctly in the printer.
- The consumables information for a printed job can be seen in the job details section once a job has printed.

The screenshot displays the Fiery XF interface with the following data:

Ink consumption	
Blue	0.007000 ml
Cyan	0.011000 ml
Chroma Optimizer	0.004000 ml
Gray	0.045000 ml
Magenta	0.010000 ml
Matte Black	0.004000 ml
Photo Black	0.029000 ml
Photo Cyan	0.007000 ml
Photo Gray	0.009000 ml
Photo Magenta	0.014000 ml
Red	0.009000 ml
Yellow	0.013000 ml
<b>Total ink</b>	<b>0.162000 ml (all channels)</b>

Media consumption	
Consumed sheets/length	0.1412 m
Consumed area	0.0609 sq m

Media wastage	
Wastage sheets/length	-
Wastage area	0.0454 sq m

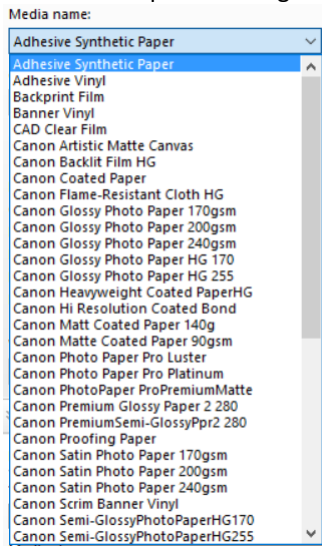
  

Printing Time	
RIP duration	-
Print duration	00:03:22 sec
Print start time	Yesterday 2:29:21 PM
Print end time	Yesterday 2:32:43 PM

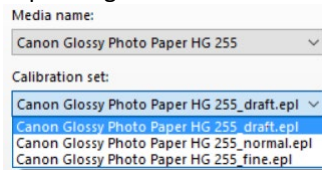
- Consumed length and consumed area mean the total amount of media length and area used respectively while printing.
- Wastage length and wastage area mean the amount of media that was left blank.

## Media support (RGB)

This list a sample list of registered media types of a PRO-2100 RGB shown in Fiery XF.

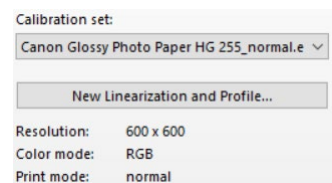
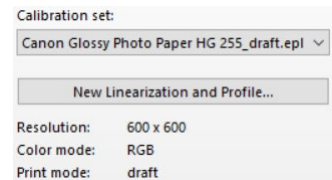


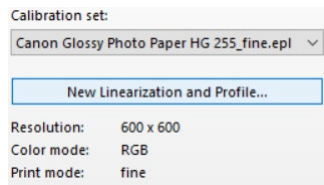
Depending on the selected media, there are multiple EPLs available.



Every EPL represents a setting of printer resolution and print quality.

Like:



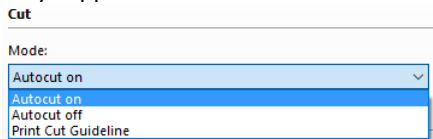


## Special printer settings

- Cutting modes

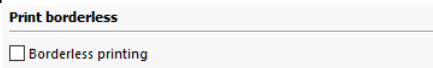
Not supported for Canon imagePROGRAF PRO-1000/Canon imagePROGRAF PRO-500

Only supported for roll media.



- Borderless printing

The list of available media size will be changed if the borderless option is checked. All media sizes are supported in borderless mode. User can now create custom media with borderless option. Borderless is only supported for Roll media.



- Status

All status information regarding printer and driver can be seen here.

Sync button will update profiles and media information, update button will only update media information.

Driver status

2020-08-05-01-23-21:

Printer status

Status : Sleep

Ink status

Ink type : Photo Magenta [10% : 160ml]  
Ink type : Red [20% : 160ml]  
Ink type : Cyan [10% : 160ml]  
Ink type : Photo Gray [10% : 160ml]  
Ink type : Matte Black [20% : 160ml]  
Ink type : Photo Black [10% : 160ml]  
Ink type : Blue [20% : 160ml]  
Ink type : Chroma Optimizer [10% : 160ml]  
Ink type : Gray [10% : 160ml]  
Ink type : Yellow [20% : 160ml]  
Ink type : Magenta [20% : 160ml]  
Ink type : Photo Cyan [20% : 160ml]

Media details

MANUAL\_1 : Not loaded  
ROLL\_1 : Canon Proofing Paper | Width : 431.80 mm | Length : 33200.00 mm  
ROLL\_2 : Not loaded

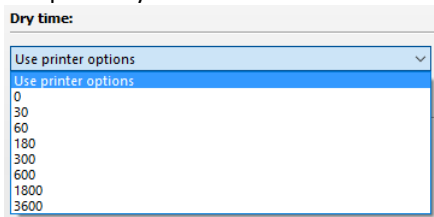
Printer configuration

Manufacturer: Canon | Product Name: PRO-2100 | Device Serial Number: 1001FD | Product Serial Number: T17MT2053 | Firmware Version: 01.07

Profile synchronization

▪ Dry time

Setup the dry time in seconds.



▪ Chroma optimizer

Set up the usage of the chroma optimizer.

Auto means the chroma optimizer is only used on inked areas.

All means on the whole page.

Off means it will not be used for media that supports CO.

Use printer options means CO setting done in printer panel will be used.

The chroma optimizer is not available on 4100S/541S/6100S/561S.

Chroma Optimizer

A screenshot of a software interface showing a dropdown menu for 'Chroma Optimizer'. The menu is open, displaying four options: 'Auto' (highlighted in blue), 'All', 'Off', and 'Use printer options'. A small downward arrow is visible on the right side of the dropdown box.

- Keep Black

For the CMYK contone format, the printer has the keep black function to print the K plane using K, GY and PGY inks only.

Keep black

Active

- Job settings and media mismatch

Job status and accounting: If enabled, the job will be tracked in Fiery XF until it completes printing in the printer and ink consumption and media consumption details will be logged in the Job Details section.

Validate job media type and size: If enabled, driver will check if size of job will fit in the media loaded in the printer. Also, driver will check if type of media loaded in the printer is the same as the one used in job. If any of these checks fail, then job will error out in Fiery XF with the appropriate message.

Mismatch action: If media type mismatch happens, then user can select to either error out the job in Fiery XF, (default setting) or let the printer decide or let it print anyway irrespective of setting in the printer panel.

Job settings

Job status and accounting

Validate job media type and size

Media Type Mismatch

Mismatch action

Cancel printing