Canon imagePROGRAF PRO Series

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

Supported printers

- Canon imagePROGRAF PRO-1000

- Canon imagePROGRAF PRO-500   (Asia version of PRO-1000)

- Canon imagePROGRAF PRO-2000

- Canon imagePROGRAF PRO-520   (Asia version of PRO-2000)

- Canon imagePROGRAF PRO-4000

- Canon imagePROGRAF PRO-540   (Asia version of PRO-4000)

- Canon imagePROGRAF PRO-4000S

- Canon imagePROGRAF PRO-540S   (Asia version of PRO-4000S)

- Canon imagePROGRAF PRO-6000S

- Canon imagePROGRAF PRO-560S   (Asia version of PRO-6000S)

- 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-6000

- Canon imagePROGRAF PRO-560   (Asia version of PRO-6000)

- 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)

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February 7, 2020   Fiery XF 7.1.4

Specification Summary

imagePROGRAF PRO-1000/PRO-500	
Printer type	Wireless professional inkjet printer
Printing method	FINE: full-photolithography inkjet nozzle engineering
Print speed (up to)	17" x 22" bordered photo (color): approx. 4 minutes 10 seconds 13" x 19" bordered photo (color): approx. 2 minutes 30 seconds
Number of nozzles	1,536 nozzles x 12 inks, total: 18,432
Nozzle pitch	600 dpi x 2
Print resolution (up to)	Color: up to 2400 x 1200 dpi
Standard interfaces	Ethernet (10/100Base -T/TX) PictBridge (wireless LAN) 6 Wireless LAN (IEEE 802.11b/g/n) 7
Ink droplet size	4 picoliters per ink
Ink capacity	80ml Type: pigment-based LUCIA PRO ink technology
Paper sizes	17" x 22", 14" x 17", 13" x 19", 11" x 14", 10" x 12", 8.5" x 11', 8" x 10", 5" x 7", 4" x 6"
Maximum paper size	17" x 22"
Media thickness	Rear tray: maximum 0.3 mm Manual feed slot: 0.1 mm - 0.7 mm
Paper feed method	Rear tray and manual feed slot
Languages	Printer languages: Printer Language, Swift Graphic Raster Job control language: IVEC Status reply: IVEC
General features	12 Individual ink tanks Advanced pattern print Index print Fine-art paper support L-COA PRO Image processing engine Non-firing and compensation function Real-time control of ink ejection Air feeding system Color density sensor Calibration link Contrast reproduction

imagePROGRAF PRO-1000/PRO-500	
Printer memory	1 GB (Standard)
Display	3.0" LCD
Head configuration	12 Ink Integrated Type (4 Ink Chips x 3)

	imagePROGRAF PRO-2000/2100	imagePROGRAF PRO-4000/4100
Printer type	12 color 24"/610mm	12 color 44"/1118mm
Print technology	Canon Bubblejet on demand, 12 colors integrated type (12 chips per print head x 1 print head)	
Number of nozzles	18,432 nozzles (1536 nozzles x 12 color)	
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 color	
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, Gray, Photo Gray, Red, Blue, Chroma Optimizer	
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: 203.2 ~ 610 mm Cut sheet: 203.2 ~ 610 mm	Roll paper: 203.2 ~ 1118 mm Cut sheet: 203.2 ~ 1118 mm
Min. printable length	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	

	imagePROGRAF PRO-2000/2100	imagePROGRAF PRO-4000/4100
Borderless printing width (roll only)	515 mm (JIS B2), 594 mm (ISO A1), 10", 14", 17", 24", 257 mm (JIS B4)*, 297 mm (ISO A3)*, 329 mm (ISO A3+)*, 420 mm (ISO A2)*, 8"*, 16"*, 300 mm* *Some environmental conditions may not produce the desired result	515 mm (JIS B20, 728 mm (JIS B1), 1030 mm (JIS B0), 594 mm (ISO A1), 841 mm (ISO A0), 10", 14", 17", 24", 36", 42", 44", 257 mm (JIS B4)*, 297 mm (ISO A3)*, 329 mm (ISO A3+)*, 420 mm (ISO A2)*, 8"*, 16"*, 30"*, 300 mm* *Some environmental conditions may not produce the desired result

imagePROGRAF PRO-6000/6100	
Printer type	12 Color 60"/1524mm
Printing Technology	Canon Bubblejet on Demand 12 colors integrated type (12 chips per print head x 1 print head)
Number of nozzles	18,432 nozzles (1536 nozzles x 12 color) *The four key colors (C, M, Y, MBk) are arranged symmetrically on the print head
Nozzle pitch	600 dpi x 2 includes Non-firing nozzle detection and compensation system
Print resolution (up to)	2400 dpi x 1200 dpi
Ink droplet size	Minimum 4 pl per color
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: 203.2 ~ 1524 mm Cut sheet: 203.2 ~ 1524 mm

imagePROGRAF PRO-6000/6100	
Minimum Printable Length	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)	515 mm(JIS B2), 728 mm(JIS B1), 1030 mm(JIS B0), 594 mm(ISO A1), 841 mm(ISO A0), 10", 14", 17", 24", 36", 42", 44", 50", 54", 60"

	imagePROGRAF PRO-4000S/4100S	imagePROGRAF PRO-6000S/6100S
Printer type	12 color 44"/1118mm	12 color 60"/1524mm
Print technology	Canon Bubblejet on demand, 8 colors integrated type (12 chips per print head x 1 print head)	
Number of nozzles	18,432 nozzles (1536 nozzles x 12 colors) The four key colors (C, M, Y, MBk) are arranged symmetrically on the print head	
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 color	
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, Gray	
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	

	imagePROGRAF PRO-4000S/4100S	imagePROGRAF PRO-6000S/6100S
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 rolls, front-loading, front output Cut sheet: front-loading, front output (manual feed using media locking lever)
Media Width	Roll paper: 203.2 ~ 1118 mm Cut sheet: 203.2 ~ 1118 mm	Roll paper: 203.2 mm~ 1524 mm Cut sheet: 203.2 mm~ 1524 mm
Min. printable length	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)	515 mm (JIS B2), 594 mm (ISO A1), 10", 14", 17", 24", 257 mm (JIS B4)*, 297 mm (ISO A3)*, 329 mm(ISO A3+)*, 420 mm (ISO A2)*, 8"*, 16"*, 300 mm* *Some environmental conditions may not produce the desired result	515 mm (JIS B2), 728 mm (JIS B1), 1030 mm (JIS B0), 594 mm (ISO A1), 841 mm (ISO A0), 10", 14", 17", 24", 36", 42", 44", 50", 54", 60", 257 mm (JIS B4)*, 297 mm (ISO A3)*, 329 mm (ISO A3+)*, 420 mm (ISO A2)*, 8"*, 16"*, 30"*, 300 mm* *Some environmental conditions may not produce the desired result

Supported OS

- Windows 64

Color modes

- CMYK Contone
- RGB

Ink configuration

- Canon imagePROGRAF PRO1000/2000/4000/2100/4100
  LUCIA PRO 12 inks

- Canon imagePROGRAF PRO4000S/6000S/4100S/6100S
  LUCIA PRO 8 inks

Supported media trays

- Canon imagePROGRAF PRO1000

  o Rear tray (used for automatic sheet feeding)

  o Manual tray

- Canon imagePROGRAF PRO2000/4000/4000S/6000S/2100/4100/4100S/6100S

  o Roll Paper (auto)

    Automatic roll switching is available if a second roll tray is installed.

  o Roll 1

  o Roll 2

    Standard for Pro6000S/6100S and an option for all other models.

  o Manual tray

Supported media sizes

Pro2000/520/4000/540/4000S/540S/6000S/560S/2100/521/4100/541/4100S/541S/6000/560/6100/561/6100S/561S

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

Media size	PRO2000/2100	PRO4000/4000S/4100/4100S	PRO6000/61006000S/6100S	Borderless
60 inch			✓	✓
54 inch			✓	✓
50 inch			✓	✓
44 inch		✓	✓	✓
42 inch		✓	✓	✓
36 inch		✓	✓	✓
30 inch		✓	✓	
24 inch	✓	✓	✓	✓
17 inch	✓	✓	✓	✓
16 inch	✓	✓	✓	
14 inch	✓	✓	✓	✓
10 inch	✓	✓	✓	✓
8 inch	✓	✓	✓	
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)	✓	✓	✓	✓

Media size	PRO2000/2100	PRO4000/4000S/4100/4100S	PRO6000/61006000S/6100S	Borderless
JIS B4 Roll (257 x 15000 mm)	✓	✓	✓	

- Manual tray

Media size	PRO2000/2100	PRO4000/4000S/4100/4100S	PRO 6000/6100/6000S/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)		✓	✓

Media size	PRO2000/2100	PRO4000/4000S/4100/4100S	PRO 6000/6100/6000S/6100S
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)	✓	✓	✓

Pro1000/500

Media size	Rear Tray	Manual Tray	Borderless
ISO A5 (148 x 210 mm)	✓		
ISO A4 (210 x 297 mm)	✓	✓	✓
ISO A3 (297 x 420 mm)	✓	✓	v
ISO A2 (420 x 594 mm)	✓	✓	✓
JIS B5 (182 x 257 mm)	✓		
JIS B4 (257 x 364 mm)	✓	✓	
JIS B3 (364 x 515 mm)	✓	✓	
Letter (8.5 x 11 in)	✓	✓	✓
ANSI Legal	✓	✓	
11 x 17 inch	✓	✓	
Hagaki 100 x 148mm	✓		✓
Hagaki 2 200 x 148mm	✓		
A3+ (329 x 483 mm)	✓	✓	✓
L 89x127 mm	✓		✓
2L 127x178 mm	✓		✓
4 x 6 inch	✓		✓
5 x 7 inch	✓		✓
17 x 22 inch	✓	✓	✓
8 x 10 inch	✓	✓	✓
10 x 12 inch	✓	✓	✓
14 x 17 inch	✓	✓	✓
ANSI Letter (Margin 25 mm)	✓	✓	
A4 (Margin 25 mm)	✓	✓	
A3 (Margin 25 mm)	✓	✓	
A3 Plus (Margin 25 mm)	✓	✓	
A2 (Margin 25 mm)	✓	✓	
17 x 22 inch (Margin 25 mm)	✓	✓	
11 x 17 inch (Margin 25 mm)	✓	✓	

First Steps

Fiery XF needs a valid connection to the imagePROGRAF printer. This could be a network connection.

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 the case of the RGB driver version, the RIP will create EPL/ICCs 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

- Make sure the port settings are correct, and the printer is powered on and not in sleep mode.

- The communication and data loading from the printer takes some time. Wait for at least two minutes for a network connection.

- The media information will only read once at application start time. To trigger a rescan of the media list, click the "Test" button.

- Finally, if none of this helps, restart the Fiery XF server.
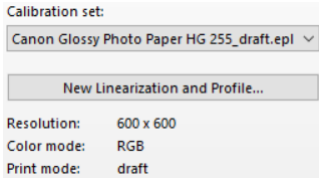
Media support (RGB)

This list is a sample of registered media types of a PRO-2000 RGB shown in Fiery XF.

Depending on the selected media, multiple EPLs are available.
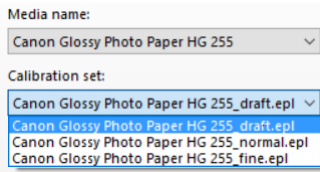
Every EPL represents a setting of printer resolution and print quality. For example:
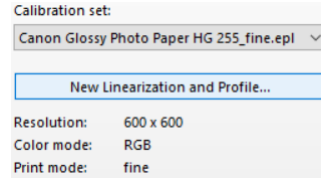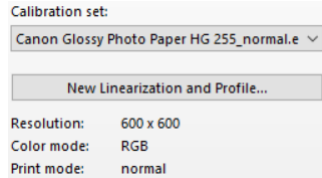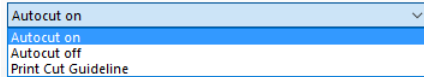
Special printer settings

- 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 selected. Not all media sizes are supported in borderless print mode.
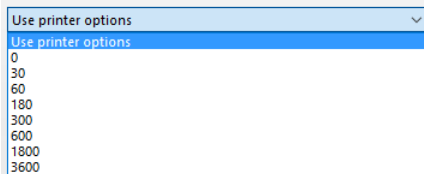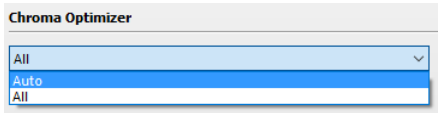
- Dry time

Setup the dry time in seconds.

- Chroma optimizer

Set up the usage of the chroma optimizer. If "Auto" is selected, the chroma optimizer is only used on inked areas. If "All" is selected, the chroma optimizer is used on the whole page.

The chroma optimizer is not available on the PRO4000S/540S/6000S/560S/4100S/541S/6100S/561S printers.

- **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.