Canon imagePROGRAF PRO Series

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

Supported printer

- 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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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[3] **13" x 19" Bordered Photo (Color):** Approx. 2 minute 30 seconds[3]
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
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 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: 203.2 ~ 610 mm Cut sheet: 203.2 ~ 610 mm	Roll paper: 203.2 ~ 1118 mm Cut sheet: 203.2 ~ 1118 mm
Minimum 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	←
Borderless Printing Width (Roll Only)	515 mm(JIS B2), 594 mm(ISO A1), 10”, 14”, 17”, 24”	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”

	imagePROGRAF PRO-6000/6100
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) *The four key colours (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 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: 203.2 ~ 1524 mm Cut sheet: 203.2 ~ 1524 mm
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 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) *The four key colours (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 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: 203.2 ~ 1118 mm Cut sheet: 203.2 ~ 1118 mm	Roll paper: 203.2 mm~ 1524 mm Cut sheet: 203.2 mm~ 1524 mm
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 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”	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”

Supported OS

- Windows 64.

Color Mode

- CMYK Contone
- RGB

Ink Configuration

- Canon imagePROGRAF PRO 1000/2000/4000/2100/4100/6000/6100
  - LUCIA PRO 12 inks
- Canon imagePROGRAF PRO 4000S/6000S/4100S/6100S
  - LUCIA PRO 8 inks

Supported media tray

- Canon imagePROGRAF PRO1000
  - Rear tray (used for automatic sheet feeding)
  - Manual tray
- Canon imagePROGRAF PRO2000/4000/6000/6100/4000S/6000S/2100/4100/4100S/6100S
  - Roll Paper (Auto)

    Automatic roll switching is available if a second roll tray is installed.
  - Roll 1
  - Roll 2

    Standard for Pro 6000/6100/6000S/6100S and an option for all other models
  - 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	PRO 6000/61006000S/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)	✓	✓	✓	✓
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)		✓	✓
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)	✓	✓	✓

Supported media sizes 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)	✓	✓	✓
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

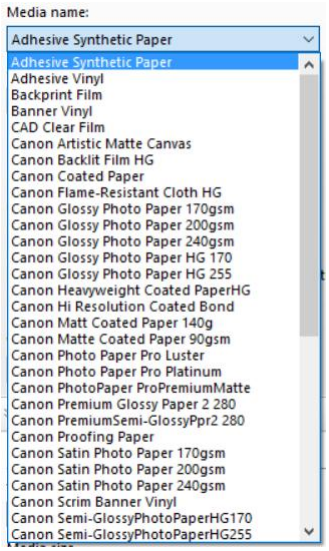
Fiery XF needs a valid ethernet connection to the imagePROGRAF printer.
As soon as the port is set up correctly and the printer is online, Fiery XF will download the media information from the printer.
In case of the RGB driver version the RIP will create EPL/ICC s from the printer information.
So it 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

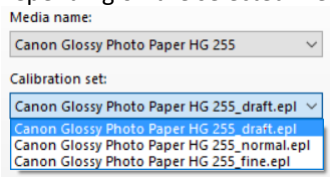
- Double check if the port settings are correct and the printer is power on and not in sleep mode.
- The communication and data loading from the printer will need some time. Wait for at least 2 minutes for network connection.
- The media information will only read once at application start time. To trigger a rescan of the media list please press the “Test” button.
- Finally if all doesn’t help, please restart the Fiery XF server.

Media support (RGB)

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

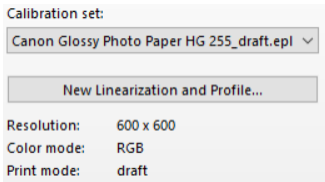


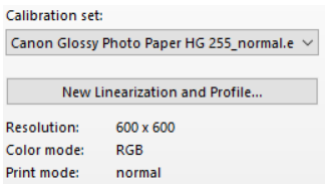
Depending on the selected media, there are multiple EPLs available.

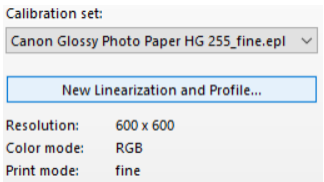


Every EPL represents a setting of printer resolution and print quality.

Like:





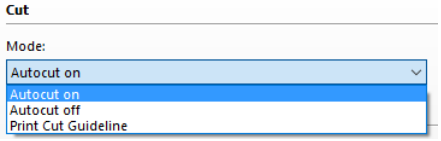


Special printer settings

- Cutting modes

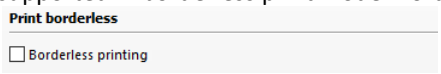
  Not supported for Canon imagePROGRAF PRO-1000/Canon imagePROGRAF PRO-500

  Only supported for roll media.



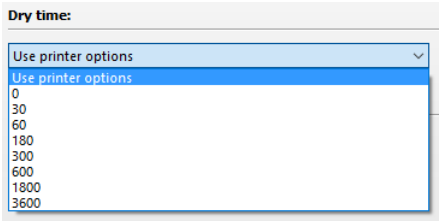
- Borderless printing

  The list of available media size will be changed, if the borderless option is checked. Not all media sizes are supported in borderless print mode. Borderless is only supported for Roll media.



- Dry time

  Setup the dry time in seconds.



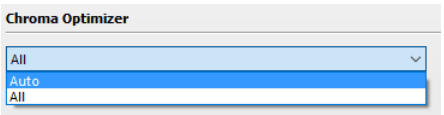
- Chroma optimizer

  Set up the usage of the chroma optimizer.

  If auto is used, the chroma optimizer is only used on inked areas.

  All means on the whole page.

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



- 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.

