Canon
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imagePROGRAF
iPF785/780/685/680

BOOST PRODUCTIVITY

TECHNICAL DOCUMENTS

LARGE-FORMAT PRINTING SOLUTIONS

Print-Head
PF-04

Technology
FINE (Photolithography Inkjet Nozzle Engineering)

Print Resolution (Max.)
2400 x 1200 dpi

Line Accuracy*
±0.1% or Less

Minimum Line Weight**
0.02 mm

Number of Nozzles
Matte Black: 5,120 Nozzles
Other Colors: 2,560 Nozzles per Color

Droplet Size
4 Picoliter

Nozzle Pitch (Head Resolution)
1200 dpi x Two Rows

Print-Head Swath
1.07 inch

Ink Type
Dye: Cyan (C), Magenta (M), Yellow (Y), Black (BK)
Pigment: Matte Black (MBK)

Ink Tank
PFI-107: C, M, Y, BK, MBK
PFI-207: C, M, Y, BK, MBK

Ink Tank Capacity
Starter: 130 ml (MBK), 90 ml (All other colors)
Replacement: 130 ml or 300 ml

Ink Supply Method
Tubing System with Sub-tanks for Continuous Ink Supply

Nozzle Recovery System
Non-firing Nozzle Detection and Compensation

Printer Controller
L-COA Controller

Printer Memory
256 MB

Hard Drive (iPF785/iPF685 only)
320 GB
32 GB Dedicated File Processing Memory

Mail Boxes (User Job Storage) (iPF785/iPF685 only)
One Common Inbox; 29 User Inboxes (Password-protected)

Media Feed
Roll Feed: One Roll, Top-loading, Front Output
Cut Sheet: One Sheet, Top-loading, Front Output

Media Width
Roll Feed
iPF785/iPF780: 10" - 36" (254 mm - 914 mm)
iPF685/iPF680: 10" – 24" (254 mm – 610 mm)
Cut Sheet
iPF785/iPF780: 8" – 36" (203.2 mm – 914 mm)
iPF685/iPF680: 8" – 24" (203.2 mm – 610 mm)

Printable Margins
Roll Feed: All Sides: 0.12" (3 mm) or 0" for Borderless
Cut Sheet: Leading, Sides (Left and Right): 0.12" (3 mm), Trailing: 0.91" (23 mm)

Maximum Print Length (Single Page)***
Roll Feed: 59' (18 m)
Cut Sheet: 63" (1.6 m)

Borderless Printing Widths (Roll Media Only)
10", B4, A3, 14", A2, 17", B2, A1, 24"
iPF785/iPF780 only: B1, A0, 36"

Media Cutter
Durable Dual-blade Rotary Cutter

Media Thickness
0.07 – 0.8 mm (2.8 – 31.4 mil)

Media Core Sizes
2" and 3" Core (Adapter Included)

Maximum Roll Outer Diameter
5.9" (150 mm)

Output Media Bin
Flat Stacker/Basket

Output Media Bin Capacity
20 Sheets (with Stackable Configuration)

Printing Software
imagePROGRAF Printer Driver for Windows®/Mac®, Printer Driver Extra Kit for Windows/Mac (Free Layout, Color imageRUNNER® Enlargement Copy, Advanced Preview), Print Plug-in for Microsoft Office (PC only), Optimized Module for AutoCAD® for Windows, Direct Print & Share (PC only), Status Monitor for Windows, PrintMonitor for Mac, Media Configuration Tool, PosterArtist Lite for Windows

Operating System†
Windows XP (32 bit), Server 2003 (32/64 bit), Server 2008 (32/64 bit), Server 2012 (64 bit), Windows Vista® (32/64 bit), Windows 7 (32/64 bit); Windows 8 (32/64 bit), Windows 8.1 (32/64 bit), Windows 10 (32/64 bit), Macintosh OS X 10.6.8-10.9X

Print Language
GARO (Canon Proprietary), HP-GL/2, HP RTL

Interface
USB 2.0 Hi-Speed, 10/100/1000Base-T/TX

Protocol
TCP/IP (IPv4/IPv6), IPX/SPX, AppleTalk®, SNMP (Canon MIB supported), HTTP

Acoustic Noise
Operation
iPF785/780: Approx. 48 dB
iPF685/680: Approx. 47 dB
Standby: 35 dB or Less
Acoustic Power
Approx. 6.5 Bels (iPF785/iPF780)
Approx. 6.4 Bels (iPF685/680)

Power Supply
AC 100–240V (50-60Hz)

Power Consumption
Maximum: 140 W or Less
Standby: 5 W or Less
Power Off: 1 W or Less (Executive Order Compliant)

Certifications
Electrical Safety Regulations
TUV (USA), cTUV (USA), TUV.S mark, CB certification (Others)

Electromagnetic Interface Regulations
FCC Class B (USA), IC Class B (Canada)

Environmental Certifications
ENERGY STAR® (Worldwide), RoHS Directive

Operational Environment
Temperature: 59 – 86 F° (15 – 30 C°)
Relative Humidity: 10 – 80% (No Condensation)

Printer Dimensions (H x W x D) and Weight with Stand and Basket
iPF785/iPF780
42" x 51" x 35" (1066.8 mm x 1422.4 mm x 889 mm) with Basket Open
42" x 51" x 43" (1066.8 mm x 1422.4 mm x 1092.2 mm) with Basket Extended for Flatbed Stacking
Approx. 150 lb. (68 kg)
iPF685/iPF680
42" x 39" x 35" (1066.8 mm x 990.6 mm x 889 mm) with Basket Open
42" x 39" x 43" (1066.8 mm x 990.6 mm x 1092.2 mm) with Basket Extended for Flatbed Stacking
Approx. 125 lb. (56 kg)

Package Dimensions (H x W x D) and Weight
iPF785/iPF780
31" x 56" x 44" (795 mm x 1434 mm x 1130 mm)
Approx. 249 lb. (112 kg)
iPF685/iPF680
45" x 44" x 35" (1143 mm x 1117.6 mm x 889 mm)
Approx. 205 lb. (92 kg)
Options
• PosterArtist
• iPF785/iPF780: Roll Holder Set (RH2-33)
• iPF685/iPF680: Roll Holder Set (RH2-26)

User-Replaceable Items
• Ink Tank (PFI-107 MBK, BK, C, M, Y) (PFI-207 MBK, BK, C, M, Y)
• Print-Head (PF-04)
• Maintenance Cartridge (MC-10)

* Line accuracy repeatability is guaranteed after a user performs necessary adjustment and under the same environmental conditions. Applies to media for line drawing (Plain Paper, Coated Paper, CAD Translucent Matte Film, and CAD Tracing Paper) only.
** Theoretical value based on data resolution.
*** The maximum printable length varies, depending on the application, OS, and RIP used.
† For imagePROGRAF Printer Driver. For printing from PostScript applications such as Adobe Illustrator or QuarkXPress, please use a PostScript compatible RIP package. For a list of Canon recommended RIP packages, please consult with Canon Alliance and Industry Market program list of RIP vendors at **usa.canon.com.**

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