

**Canon**

imagePROGRAF

 imagePROGRAF  
iPF785/780/685/680



**TECHNICAL  
DOCUMENTS**  
LARGE-FORMAT PRINTING





## Simplify your workflow with the 36" imagePROGRAF iPF785/iPF780 and 24" iPF685/iPF680 Large-Format Printers

The newest additions to Canon's technical document large-format printer line-up.



## NEW FEATURES

### HIGH PRODUCTIVITY

- **Print speeds** are capable of producing a 24" x 36" Arch D-sized print in approximately **21 seconds** in Economy Mode!<sup>▲</sup>

### LARGE-CAPACITY INK TANKS

- In addition to the 130 ml ink tanks, 300 ml ink tanks are compatible with these solutions to **help lower ink costs** per print. Users also have the option to mix and match ink tank sizes.

### NEW MAGENTA INK

- A newly formulated Magenta ink helps improve the **clarity and vibrancy** of red fine lines, text, and images.

### SUB-INK-TANK SYSTEM

- Allows for **ink tanks to be changed on the fly**, without interrupting the print job.

### SOFTWARE

- **Canon workflow solutions** feature familiar and new favorites, such as a new mobile printing app,<sup>▲▲</sup> Direct Print & Share, Status Monitor, Media Configuration Tool, Print Plug-in for Microsoft® Office, and more!

<sup>▲</sup> iPF785/780 models only.

<sup>▲▲</sup> App can be downloaded from iTunes®.

\*Hard drive included only with iPF785 and iPF685 models.



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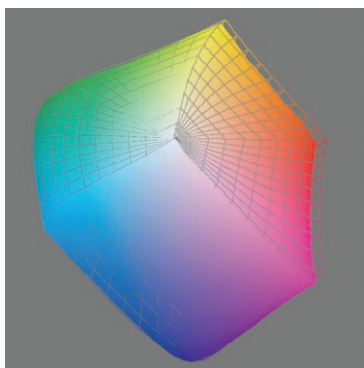
## ADVANTAGES

### SPEED

The iPF785/780 and iPF685/680 printers offer speeds that have never been seen before on previous Canon imagePROGRAF large-format printer models. In their fastest mode (Economy Mode), the 36" iPF785/780 printers are capable of reproducing 24" x 36" Arch D-sized prints in approximately **21 seconds!** The 24" iPF685/680 printers can reproduce 24" x 36" Arch D-sized prints in approximately 25 seconds!

### INK

A newly formulated Magenta ink helps improve the clarity and **vibrancy** of red fine lines, text, and images in many technical and poster prints. The color gamut has also increased in the orange to red areas when compared to previous models. From a productivity perspective, the printers now support ink tank sizes of 300 ml to help lower the cost per print. The included sub-ink-tank system allows for users to use all the ink that's available in a tank before replacement is needed. It also allows for on-the-fly swapping of ink tanks, should one run out during the middle of a print job.



### ADDED FEATURES

All four models include the flat stacker/basket, previously seen on only the iPF76x Series models. This feature provides the capability to neatly stack up to twenty 24" x 36" plain paper prints and can be enabled or disabled based on user preference.

Also included on the iPF785 and iPF685 models is a 320 GB hard drive, allowing for the storage of up to 500 print jobs, the creation of individual user mail boxes, and improved print processing while falling under U.S. Department of Defense requirements (DoD 5220.22-M).

### SOFTWARE

Enhancements to the line-up of imagePROGRAF software solutions will help improve printing workflow and management.

#### ***imagePROGRAF Print Utility\****

For the first time, a mobile app has been made available for imagePROGRAF large-format printers. This iOS-based app allows users to print PDF files from their iPad®.

#### ***Direct Print & Share 2.0\*\****

Canon's cloud-based portal solution has been updated to support additional WebDAV-compliant cloud servers, along with HP-GL/2 data to allow for the printing of JPG, TIFF, PDF, and HP-GL/2 files from almost anywhere in the world! Also, a new "shortcut print" button has been added. With this additional functionality, hot folders can be created and set up on your desktop. You can drag and drop your files into the folders and your jobs will begin printing automatically! Multiple folders can be set up for shortcut printing, each with their own print settings for custom printing applications!

#### ***PosterArtist***

Canon's optional, added-value poster-creation software has been upgraded for use with Direct Print & Share. Various software improvements with variable data printing and file structure have also been made for easier use.

#### ***Status Monitor***

This software can be used with all imagePROGRAF devices and has been updated to include an "ink purchase notification" function. This notifies users when their ink supply is low and a purchase is needed.

\* Available at the App Store. Compatible with iPad®2 or later, running iOS 6.1 or later. Data charges may apply. Printed output will be the same size as original file. Mobile device and large-format printer must utilize the same network. Printer must be connected to the same router that the mobile device is connected to via wireless capability. Wireless performance may vary based on terrain and distance between the printer and wireless network clients. In order to print from imagePROGRAF Print Utility, user must open his/her PDF file in another, supported iPad app. Then, the user would select "Open In" and choose the Print Utility app.

\*\* Your server must be compatible with a WebDAV-enabled cloud account, including, but not limited to, Google, Carbonite, or Rackspace to take advantage of the cloud functionality. Storage capacity, and any pricing thereof, is based on the third-party cloud provider's current offering, at its sole discretion. Your cloud account is subject to the third-party cloud provider's terms and conditions. Neither Canon Inc. nor Canon U.S.A., Inc. represents or warrants any third-party product, service, or feature referenced hereunder.

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## SPECIFICATIONS



**Print-Head**  
PF-04

**Technology**  
FINE (Full-Photolithography Inkjet Nozzle Engineering)

**Print Resolution (Max.)**  
2400 × 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 × Two Rows

**Print-Head Swath**  
1.07 inch

**Ink Type**  
Dye

Cyan (C), Magenta (M), Yellow (Y), Black (K)

**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-Ink-Tanks for Continuous Ink Supply

**Nozzle Recovery System**  
Non-firing Nozzle Detection and Compensation

**Printer Controller**  
L-COA Processor

**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)**  
1 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), Macintosh OS X 10.6.8 - 10.9.X

**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/iPF780: Approx. 48 dB  
iPF685/iPF680: Approx. 47 dB

**Standby**  
35dB or Less

**Acoustic Power**  
iPF785/iPF780: Approx. 6.5 Bels  
iPF685/iPF680: Approx. 6.4 Bels

**Power Supply**  
AC 100–240 V (50–60 Hz)

**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 × W × D) and Weight with Stand and Basket**  
iPF785/iPF780: 42" × 51" × 35" (1066.8 mm × 1422.4 mm × 889 mm) with Basket Open  
42" × 51" × 43" (1066.8 mm × 1422.4 mm × 1092.2 mm) with Basket Extended for Flatbed Stacking  
Approx. 150 lb. (68 kg)

iPF685/iPF680: 42" × 39" × 35" (1066.8 mm × 990.6 mm × 889 mm) with Basket Open  
42" × 39" × 43" (1066.8 mm × 990.6 mm × 1092.2 mm) with Basket Extended for Flatbed Stacking  
Approx. 125 lb. (56 kg)

**Package Dimensions (H × W × D) and Weight**  
iPF785/iPF780: 31" × 56" × 46" (787.4 mm × 1422.4 mm × 1117.6 mm)  
Approx. 249 lb. (112 kg)

iPF685/iPF680: 45" × 44" × 35" (1143 mm × 1117.6 mm × 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 [www.usa.canon.com](http://www.usa.canon.com).

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