Canon

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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.

These printers aim to boost productivity while staying true to some of their great legacy features. Faster draft printing, increased ink tank sizes, a new magenta ink, and software enhancements help make printing easier and more convenient than ever before, while the sub-ink-tank system, large on-board hard drive,* and user-friendly assembly all carry over to help ensure the printer operates seamlessly into your workflow.

*Hard drive included only with iPF785 and iPF685 models.

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![▲]

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,[▲▲] Direct Print & Share, Status Monitor, Media Configuration Tool, Print Plug-in for Microsoft® Office, and more!

[▲] iPF785/780 models only.
[▲▲] App can be downloaded from iTunes®.

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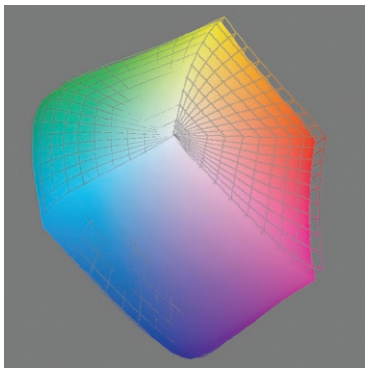
ADVANTAGES

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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imagePROGRAF iPF785/780/685/680

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 - 10.9X
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/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" x 51" x 35" (1066.8 mm x1422.4 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 × W × D) and Weight
iPF785/iPF780: 31" x 56" x 46" (787.4 mm x 1422.4 mm x 1117.6 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 **www.usa.canon.com**.

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L-COA

FINE
Full-photolithography Inkjet Nozzle Engineering

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