Canon

imagePROGRAF
iPF MFP M40

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TECHNICAL DOCUMENTS

MFP LARGE-FORMAT IMAGING

Introducing the imagePROGRAF iPF MFP M40 System

Large-format scan-to-copy/file/share solutions

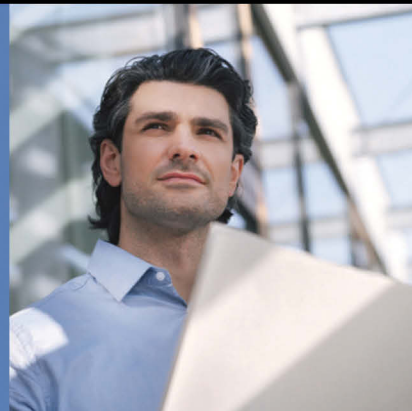The Canon imagePROGRAF iPF MFP M40 systems are multicomponent, multifunction solutions for architects, engineers, construction, GIS, and other professionals who need to scan, edit, save, share, and print large-format documents easily and efficiently.

FEATURES

- **M40 Scanner** with SingleSensor assembly technology* delivers incredibly fast and accurate scan speeds.

- **SmartWorks MFP** scan to copy/file/share software includes new custom presets, image enhancements, and all new cloud integration.

- **Direct Print & Share is** Canon's Cloud Portal software for file sharing.

- **A customizable system**–choose between 36″ or 44″ printers for maximum versatility.

- **Computer, Touch-Screen Monitor, and Stand** are all included in the system.

* SingleSensor assembly technology means that multiple sensors are contained in one assembly device.

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®.

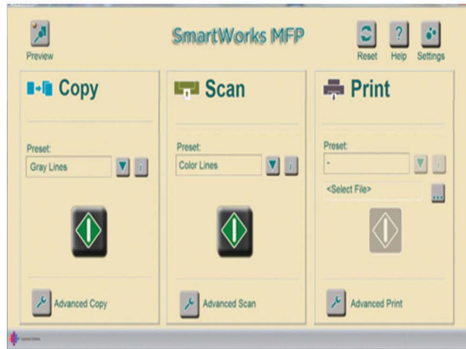# imagePROGRAF iPF MFP M40 SYSTEM

M40 SCANNER

The M40 scanner with SingleSensor assembly technology brings the MFP solution to a whole new level. You have the ability to scan documents at incredible speeds and, with the included USB 3 connection, experience data transfer speeds of up to 10 times faster than on previous MFP models! The intuitive control panel embedded on the scanner helps make operation of the device incredibly easy, and its compact design helps space become a non-issue when using and storing the device.

- Optical resolution of 1200 dpi
- Scan speeds of 13 inches per second monochrome and 3 inches per second color
- Capability to accept media of different thickness (up to 2mm)

SMARTWORKS

The included SmartWorks MFP scan-to-copy/file/share software has been enhanced and now helps you to be more efficient than ever before.

- New user interface for easy navigation
- Ability to add custom presets with one-touch retrieval for those often-used settings
- New image enhancements for white point adjust, black point adjust, sharpen, mirror, and invert
- Full integration with Direct Print & Share Cloud Portal software

SYSTEM

Experience the vast customization options that come with your MFP system. The Canon imagePROGRAF iPF MFP M40 large-format imaging system is designed to be a complete scan-to-copy, file, and share solution. The system includes an imagePROGRAF iPF large-format printer, M40 large-format scanner, MFP stand, computer, SmartWorks MFP software, and a large touch-screen monitor. This solution provides a fast and effective system for printing, copying, archiving, and distributing maps, drawings, renderings, site and facilities management plans, design and layout proofs, posters, and more.

With the iPF765 or iPF760 printer, the integrated stand allows the user to position the monitor in a variety of configurations to provide optimal functionality and comfort, as well as allowing the user to mount the stand onto the printer for a true all-in-one structure, or keep them separate for easy maneuverability. The MFP solution includes a touch-screen monitor, and users now have the option of selecting to have their scanned documents come straight out the back of the scanner, or rewind to the front for easy retrieval. Customization is truly brought to a whole new level with the iPF MFP M40 system.

- Fully operational PC for vast customization and creativity
- Integrated stand for structural customization (iPF765 and iPF760 printers only)

MARKETS

The iPF MFP M40 system is designed to help bring a fully operational work solution to you out in the field and provide you with all the tools to help enhance your technical document productivity. Whether you have a low-volume architecture firm or a high production enterprise environment, you can choose the right printing solution to meet your workflow requirements. See how the MFP solution can bring your business to the next level. This solution's capability to help you produce high image quality at impressive speeds—and achieve remarkable productivity—help make it a welcome addition for anyone looking to advance in the AEC, GIS, and other technical industries.

SmartWorks MFP Software
Featuring one-touch "green button" Copy, Scan, and Print functions

Touch-Screen Monitor

M40 Large-Format Scanner
• SingleSensor assembly technology
• Scans images up to 40"wide

On-Board PC Software and Workflow Solutions
• Direct Print and Share Cloud Portal Solution
• PosterArtist Lite
• Canon Printer Driver
• Print Plug-in for Microsoft Office
• Accounting Manager Feature

Large-Format Ink-Jet Printer
Five models to choose from
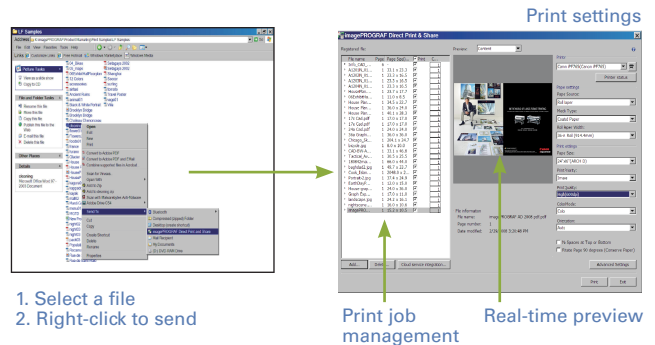
MFP Stand

DIRECT PRINT & SHARE SOFTWARE

Canon's Direct Print & Share* is a cloud-based portal service that allows users to expand their workflow. Through a Google** account, users are given the ability to scan and upload documents to their own cloud storage space and have those documents printed from almost anywhere!

Easily print PDFs, TIFFs, and JPEGs through the user-friendly interface, and even have the ability to do batch printing. To help further integrate with your Canon printer and software, Direct Print & Share comes with a print plug-in for SmartWorks MFP V3 (also included) and AutoCAD® (sold separately) to make cloud use through this software incredibly easy. Scan, upload, download, and print directly from these software solutions to help streamline your workflow.
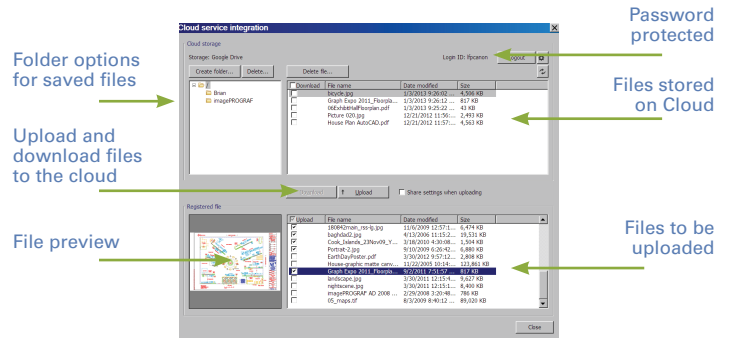
FEATURES
- Accessible from almost anywhere in the world
- 5GB of free storage
- Batch printing of multiple files
- Integration with software solutions, such as SmartWorks MFP V3 and AutoCAD
- Drag-and-drop TIFF, JPEG, and PDF files to shortcut icon

iPF Direct Print & Share

Print settings

1. Select a file
2. Right-click to send

Print job management

Real-time preview

Cloud Service Integration
Cloud Storage

Password protected

Folder options for saved files

Files stored on Cloud

Upload and download files to the cloud

File preview

Files to be uploaded

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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)

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* 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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0187W175
0714-iPF78X/68X-10M-LTM

L-COA

FINE
Full-photolithography Inkjet
Nozzle Engineering

GENUINE

ENERGY STAR

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Scan Speed*
- 48-bit Full Color @ 200 dpi: 3" (per second)
- 8-bit Grayscale and Monochrome @ 200 dpi: 13" (per second)

Scan Modes
- 16.7-million Color RGB (24-bit)
- 256 color RGB Adaptive Indexed Color Palette (8-bit)
- 256-level Grayscale (8-bit)
- Black and White (1-bit)

Color Space
Normalized RGB

Resolution
- 9600 dpi (maximum interpolated)
- 1200 dpi (optical)

Scan Accuracy**
+/- 0.1% ; +/- 1 pixel

Maximum Image Width
40"

Maximum Media Width
42"

Maximum Scan Length
96"

Maximum Media Thickness
0.079" (2mm)

Media Feed System
Single large diameter precision ground drive roller; adaptive CIS media focus management and media guide mechanism; intuitive face-up, front-loading, and front/rear-exit media path with side justification; automatic media size detection with reliable optical media sensors

Digital Imaging Technology
Contact Image Sensor (CIS) Technology (SingleSensor Assembly)
- 5x close-spaced "deep focus" CIS (25,000 pixels)
- 48-bit RGB digital color image capture (50,400 pixels)
- 16-bit grayscale image capture
- Panchromatic monochrome and black and white
- Bi-directional extra long-life LED light system for optimum object illumination and instant-on scanning capability

Digital Image Processing
- 2D Intelligent Adaptive Thresholding (IAT) (1-bit mode)
- Fixed Threshold Black and White (1-bit mode)
- Dynamic Normalization Application (DNA) with 16-bit Super Sampling

User Status and One-Touch Operation
Center mounted LCD scanner control panel; walk-up operation and user selection of scanner mode with stop, forward, rewind, scan, and copy buttons; local language options, panel overlay, and Magnetic Media Guide

Included Software
- SmartWorks MFP Scan-to-file, Copy, E-mail with Real-time Image Viewer. Supports TIFF, JPEG, TIFF G4, and PDF.
- Direct Print & Share Cloud Portal Solution

Operating System
Windows 7 Professional (64-bit)

User Maintenance
Installable Plug-and-Play Scanner; Simple Cleaning

Scanner Interface Kit
Superspeed USB 3.0 (PC Connector Compatible with USB 2.0 and USB 3.0 sockets)

Operating Environments
10 – 35°C, 35-80% RH, Non-condensing

External Power Supply
100-250 VAC Autosensing +/- 10%, 50-60Hz

Scanner Power Consumption
- 53Wh (scanning)
- 5Wh (stand-by)

Compliances
VCCL, CB, CE, FCC, UL, RoHS, ENERGY STAR®

Stand and Scanner Dimensions
Height: Swing Arm: 57.5"
         Straight Arm (max): 66"
Width: Swing Arm (max): 69.9"
         Straight Arm: 53.6
Depth: 31.5"

Stand and Scanner Weight
Approx. 120.4 lb.

What's In The Box?
- M40 Scanner with Power Cord and USB 3.0 and USB 2.0 Cables (scanner to server)
- 2 Meter USB Cable (server to printer)
- M40 MFP Stand
- M40 MFP Stand Assembly Instructions
- SmartWorks MFP Software
- Computer
- Flat Panel Touch-screen Display
- Installation and Operation Manual
- Operator Manual on CD-ROM
- Document Return Guide
- Magnetic Paper Guide

* The scan rate is proportional across the full range of resolutions supported by the scanner. Actual scan times will depend on the host system performance. Quoted top speeds may be limited by the effective bandwidth of the USB 2 and is not guaranteed for all media types.

** The quoted scan accuracy may vary depending on the operating environment and the thickness of the media.

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