

Canon

imagePROGRAF®
iPF820/810

iPF820/810

TECHNICAL DOCUMENTS

LARGE-FORMAT PRODUCTION PRINTING SOLUTIONS



Introducing the imagePROGRAF® iPF820 and iPF810 Printers

Large-format solutions for technical
documents production printing



Are your large-format printers keeping
pace with your need for technical
documents in color and monochrome?

If not, then it's time to take a look at the
new imagePROGRAF iPF820 and iPF810,
Canon's single-solution, large-format
printing systems developed specifically
to meet the demands of manufacturing,
engineering, construction and reprographic
firms for seamless, uninterrupted production
of razor-sharp monochrome plots and
high-quality color prints.

With world-renown Canon technology at their core,
these printers were built to keep you moving
forward and ahead of the curve by consolidating
printing operations, increasing workgroup productivity,
and minimizing costs while improving the image
quality of every print produced. Choose the one
that's right for you.

imagePROGRAF iPF820 PRINTER

A 44"-wide powerhouse printing system that keeps
workgroups productive, with dual media rolls that
support multiple media types and long print runs.

imagePROGRAF iPF810 PRINTER

A highly versatile large-format printing system
for high-volume production printing on media
up to 44"-wide.

imagePROGRAF iPF820 PRO/iPF810 PRO PRINTERS

Select either the iPF820 PRO or iPF810 PRO for a
complete technical documents production printing
solution that includes CAD|STATION PS+, a True
Adobe® PostScript® Color RIP that features print
management and job accounting functionality.

iPF820/810



CAN YOU IMAGINE THE NEXT GENERATION IN TECHNICAL DOCUMENTS PRINTING?

What if you could upgrade your large-format printing operations from “the way it is” to the “way you know it needs to be”?

Now you can. With the introduction of the new 44"-wide imagePROGRAF iPF820/810 large-format printers, Canon has brought to market the next generation in technical documents printing. Built for high-speed production of both full-color and monochrome output, these single-solution printing systems effortlessly produce intricately detailed CAD drawings, color renderings, and GIS maps.

Start by choosing either the single- or dual-media-roll model, then add a large-format scanner, stacker, and production software with True Adobe PostScript RIP to configure the multifunction system solution you need for high-volume production printing and support for large workgroups.

Highly efficient, superb print quality, versatile options, and a remarkably low total cost of ownership – this is the large-format printing system you’ve been waiting for.



Speed and Precision – Two D-Sized Prints Per Minute

Print speed is critical when you need to keep projects moving forward and meet tight deadlines. That's why the imagePROGRAF iPF820/810 printers are built for high-speed production of complex schematics, drawings, maps, and presentations.

TWO D-SIZED PRINTS PER MINUTE, IN COLOR OR MONOCHROME

Canon's advanced system architecture achieves print speeds of up to 688 ft.²/hr. on plain papers. Or print a full-color, 2400 x 1200 dpi high-resolution, A0-sized image (10.76 ft.²) with full graphic coverage on heavyweight coated media in only three minutes.*

SPECTACULAR ACCURACY AND EXTRAORDINARY DETAIL

A large 1.07", super-high-density print-head with 15,360 nozzles and a double set of Matte Black ink channels ejects minuscule 4pl droplets of ink across a wide swath of media. The result is consistently accurate, 2400 x 1200 dpi output with fine lines that are accurate to +/- 0.10% and as thin as 0.02mm.

FIVE-COLOR REACTIVE INK TECHNOLOGY

Print complex schematics with super-clear small text fonts and crisp lines over color backgrounds, even on uncoated technical papers. This unique, wide-color-gamut ink set features four colorfast dye inks and a pigment Matte Black ink that are chemically engineered to prevent excessive "bleeding" so text and lines are always sharp and legible.



* Mechanical print time does not include data transfer time. Print time is measured for 60 consecutive minutes (including head cleaning and cutting time), printing multiple copies using Canon Printer Driver with Plain Paper setting at Draft (full-density) Mode.

Productivity – Maximized

The new imagePROGRAF iPF820/810 printers are single-solution systems built to satisfy the full range of large-format technical document printing requirements professionals encounter every day.

DUAL MEDIA ROLLS

Equipped with dual media rolls, the iPF820 printer eliminates the cause of many bottlenecks in busy printing environments. It can automatically switch between different size and types of media or print on the same media to enable fast, consecutive printing of jobs submitted by multiple users.

VERSATILE OUTPUT UP TO 44"- WIDE

Print what you need, when you need it. With the auto rotation and nesting functionality on HP-GL/2 files, the iPF820/810 printers not only maximize throughput, but they also help save on media consumption and per-print costs.

AUTOMATIC BLACK INK SELECTION

Based on the type of media being used, the printer will automatically select the right type of black ink for best results: pigment Matte Black for uncoated and technical papers or dye Black for coated and glossy media.

BORDERLESS PRINTING

Print from edge-to-edge.* Output can be ready to use without additional trimming and finishing when utilizing the borderless printing option.

SELF-PROPELLED CUTTER

The double rotary blade cutter is driven separately from the print-head carriage so that cutting can start immediately after printing is finished. The result is faster, continuous throughput.

PRINT LONGER WITHOUT INTERRUPTION

Canon's unique sub-ink tank system means you can replace ink on-the-fly, without stopping the printer. Choose the extra large 700ml ink tanks for even greater productivity.

MEDIA DETECTION SYSTEM

The automatic media detection and management system keeps track of paper usage and warns the user if there's not enough media to complete a print task.

HIGH-CAPACITY MEDIA BASKET

For long print runs, a high-capacity media basket comes standard on both the iPF820 and iPF810 printers.

*Up to 42" wide

imagePROGRAF®

TECHNICAL DOCUMENTS: LARGE-FORMAT PRINTING



iPF810



iPF820

MAXIMUM PRODUCTIVITY

- Print two D-sized prints per minute or 120 D-sized prints per hour, in color or monochrome
- The iPF820 is equipped to automatically switch between its dual media rolls to enable fast, consecutive printing of different media types and sizes
- Send large sets of files from multiple workstations to a built-in 80GB hard drive
- Economy Print Mode allows for lower cost of operation
- High-density print-head with 15,360 nozzles provides high-speed, accurate results
- Self-propelled cutter can start cutting immediately after printing is finished for fast throughput time of multipage documents
- Sub-ink tank system allows for changing ink without interrupting a print job

VERSATILITY

- Direct printing support for HP-GL/2 and HP RTL
- The enhanced HDI Driver enables direct printing from AutoCAD® and AutoCAD LT
- Convenient media feed options for everyday use
- Intuitive printer driver UI enables easy selection of automatic roll switching functionality

HIGH-QUALITY PRINTING

- High-resolution output up to 2400 x 1200 dpi
- Print fine 0.02mm thick lines with tiny 4-picoliter ink droplets
- Precise +0.1% line accuracy
- Unique five-color dye/pigment Reactive Ink technology optimizes imaging

MULTIFUNCTION SOLUTIONS TO FIT YOUR WORKFLOW

HIGH-CAPACITY PLAIN PAPER STACKER

- Optional stacker provides a flat surface to off-load prints, eliminating the need for operator handling
- Built for high productivity
- Stacker automatically picks up plain paper documents of mixed sizes and stacks them up to 300 sheets

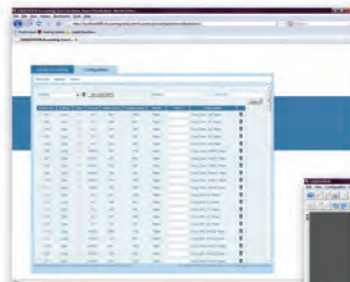


LARGE-FORMAT SCANNER

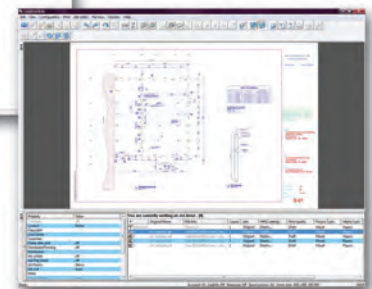
- Optional large-format scanner provides a powerful scan-to-copy/archive/e-mail integrated workflow solution
- Fast and effective large-format capture-to-output functionality

CAD|STATION PS+ SOFTWARE (PRO Models Only)

- A full-color RIP with true Adobe PostScript processing, advanced job management features, and accounting functionality
- Web submission tools drag-and-drop hot folders, and client/server workflow features for significant increase in productivity



Cost Accounting Configuration



General View of Interface

Operations – Optimized

Canon designed the large-format imagePROGRAF iPF820/810 printers to make producing technical documents faster, easier, and more efficient. To help you optimize daily operations, the enhanced features contribute directly to overall performance and simplified end-user tasks.

WORKGROUP PRINTING

Waiting for large files to print can slow down an entire workgroup. That's where an 80GB hard drive makes all the difference. Now multiple users can organize and manage their print jobs easily via the system's remote user interface with up to 29 password-protected mail boxes. Once a large data file is sent, the printer stores it in the queue, freeing workstations for the next project. The large hard drive capacity means workgroups can be extra productive.

ENHANCED REMOTE USER INTERFACE

The enhanced Remote User Interface includes password-protected mail boxes to help organize and manage print jobs from multiple users, so medium- to large-size workgroups can share the printer more efficiently.

CANON PRINTER DRIVER

Intuitive operation with easy and advanced settings for both Windows and Macintosh users.

FREE-LAYOUT FUNCTION

Assemble charts, tables, text documents, and graphics of different file formats onto a single page, and print them together to create high-impact posters and presentations.

SCAN-TO-PRINT ENLARGEMENTS

Making enlargements is as easy as making copies when an imagePROGRAF large-format printer is seamlessly integrated with a Canon imageRUNNER® or imagePRESS™ multifunction system with Universal Send.

REAL PREVIEW FUNCTION

Avoid unnecessary errors and reprints with this real-time preview function that enables users to modify settings, even after clicking "Print."

COLOR EMULATION

The color emulation function helps these imagePROGRAF printers to approximate the colors produced by other legacy large-format ink-jet printers.

ENHANCED HDI DRIVER

Print HP-GL/2 and HP RTL files directly from CAD applications, including AutoCAD and AutoCAD LT via Canon's enhanced HDI Driver. This high-speed HDI driver saves users time and improves workgroup efficiencies.

HARD DRIVE SECURITY

The 80GB hard drive supports multiple methods of data erasure and document security, ranging from a quick and easy option that simply removes file system information to a triple overwrite of the hard drive that conforms to the DoD.52220.22-M standard of the U.S. Department of Defense.

Costs – Minimized

In addition to the low initial acquisition cost of these printers, a number of important features minimize ink consumption, media waste, and maintenance costs to contribute to a significantly reduced total cost of operations while still producing technical documents of the highest quality.

- **Economy Print Mode lowers the cost per print:** Significantly reduce ink consumption and lower total printing costs by selecting Economy Print Mode when printing drafts and check plots.
- **Durable print-head reduces maintenance costs:** Canon's unique high-density print-head ejects fine droplets of ink with remarkable efficiency and accuracy. With 15,360 nozzles, there's less wear and tear on each individual nozzle, increasing the life of the print-head.
- **Large-Capacity Ink Tanks:** Large 330ml or 700ml ink tank helps lower total cost of ownership overtime while increasing your productivity.
- **Minimize media waste:** Canon's auto rotation and nesting feature with HP-GL/2 files helps you take full advantage of the printer's 44"-wide media capacity.

- **Ink technology improves print durability:**

Chemically engineered for improved durability and adhesion, Canon's unique five-color Reactive Ink technology can actually extend the life of your full-color maps, schematics, and construction plans. Even with the stress of constant handling, writing, and display, ink stays put, so you won't need to spend time and money reprinting large-format documents.

- **Energy Savings:** Engineered for efficiency and reliability, these ENERGY STAR® qualified printers draw only 190 watts of power during use.



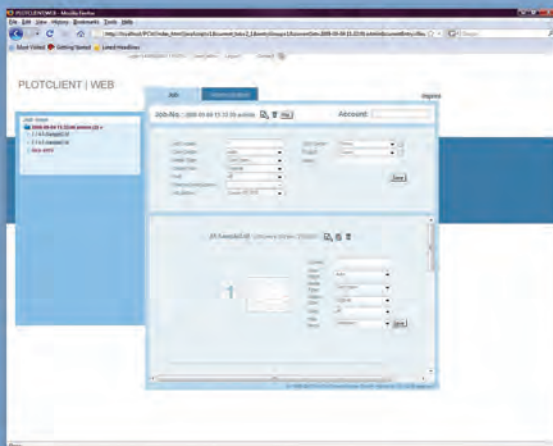
System Solutions – Simplified

imagePROGRAF iPF820 PRO AND imagePROGRAF iPF810 PRO PRINTERS

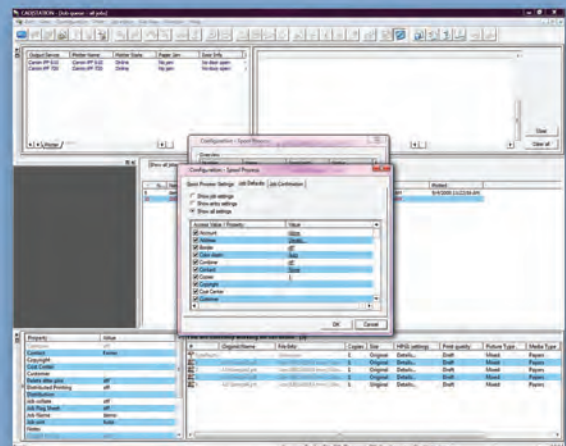
Choose either the iPF820 PRO or iPF810 PRO printer to further enhance your operations with a complete production printing solution that includes CAD|STATION PS+, a True Adobe PS color RIP with advanced job management and accounting functionality. CAD|STATION PS+ has a client/server architecture with the ability to set up an unlimited number of clients, giving these PRO model printers greater functionality. They also simplify batch printing procedures, relieve the image processing burden from end-user workstations for faster job throughput, and include advanced accounting and job-cost tracking functions.

- With the PRO model printers, you can print directly from Windows or AutoCAD HDI drivers.
- Printing of industry-specific file formats: HP-GL/2, HP RTL, CGM, CALS, AutoCAD, DWF, DXF, and DWG as well as PS, EPS, PDF, TIFF, BMP, and others.
- This tool set provides additional controls over output options and helps manage batch printing more efficiently.
- The color RIP includes profiles for a wide variety of media along with color calibration tools.
- Accounting functions track output activity and record details such as project, customer, or cost center information to simplify invoicing and project cost accounting.
- Web-based job submission

CAD|STATION PS+



Submitting Jobs via Web Client



Job Configuration

These highly versatile printers can also be configured with additional options to fully optimize your productivity from input to output.

HIGH-CAPACITY STACKER

Add an optional high-capacity plain paper stacker for even greater efficiency. The stacker provides a sturdy flat surface to off-load plain paper prints and eliminates the need for operator handling. Multiple workstations can send jobs to the printer unattended and retrieve them later, without hampering the stacker's capacity.

- Automatically picks up documents and stacks them up to 300 sheets (plain paper)
- User-installable
- Stacker tray holds mixed output sizes

HIGH-SPEED, HIGH-RESOLUTION LARGE-FORMAT SCANNING

Need to archive, reproduce, or distribute large-format documents and presentations from hard-copy originals? Add a compatible high-speed, high-quality large-format scanner to your imagePROGRAF printer to create a complete multifunction, scan-to-copy solution.



iPF 820/810

iPF820/810

SPECIFICATIONS



Print-Head
PF-03

Technology
FINE (Photolithography Ink-jet Nozzle Engineering)

Print Resolution (Max.)
2400 x 1200 dpi

Line Accuracy*
±0.1% or Less

Minimum Line Weight**
0.02mm

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 (K)
Pigment: Matte Black (MBK)

Ink Tank
Shipped with Printer: PFI-303 (330ml) MBK, C, M, Y, K

Replacement: PFI-703 (700ml) MBK, C, M, Y, K
PFI-303 (330ml) MBK, C, M, Y, K

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
384MB

Hard Drive
80GB

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

Media Feed
Roll Feed: iPF810: One Roll, Front-loading, Front Output
iPF820: Two Rolls, Front-loading, Front Output

Media Width
Roll Feed: 10" - 44" (254mm - 1118mm)
Cut Sheet: 8" - 44" (203.2mm - 1118mm)

Printable Margins
Roll Feed: All Sides: 0.12" (3mm) or 0" for Borderless

Maximum Print Length (Single Page)†
Roll Feed: 59' (18m)

Cut Sheet: 63' (1.6m)

Borderless Printing Widths (Roll Media Only)
10", 14", 17", 24", 36", 42" B2 (20.28"/515mm),
A1 (23.38"/594mm), B0 (40.6", 1030mm),
A0 (33.11"/841mm)

Media Cutter
Durable Dual-Blade Rotary Cutter

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

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

Maximum Roll Outer Diameter
5.9' (150mm)

Output Media Bin
Portable Media Basket (Standard), 44" Plain Paper
Stacker (Optional), Media Take-Up Reel (Optional,
iPF810 only)

Printing Software
iPF810/iPF820
imagePROGRAF Printer Driver, HDI Driver††, Printer Driver
Extra Kit (Free Layout, imageRUNNER Linking Function),
Print Plug-in for Microsoft® Office

iPF820 PRO/iPF810 PRO‡
Above plus RATIO® CAD|STATION PS+
CAD|STATION PS+ Server, PLOTCLIENT|SET,
PLOTCLIENT|HDI, PLOTCLIENT|WEB, WINPRINT)

Operating System
Printer Driver
Windows 32-bit 2000/XP/Server 2003/Vista/Server
2008, Windows 64-bit XP/Server 2003/Vista/Server
2008, Macintosh® OS X (10.2.8, 10.3.x, 10.4.x),
Macintosh OS X CUPS (10.4.9, 10.5.x)

CAD|STATION Server
Windows 2000/XP/2003 Server/Vista

Print Language
Printer
GARO, HP-GL/2, HP RTL

CAD|STATION PS+ (PRO Models Only)
Adobe® PostScript® 3, PDF 1.4, EPS, HP-GL,
HP-GL/2, HP RTL, DWF, DWG, PLT, CALS,
CGM, TIFF, JPEG, BMP, CALS, CGM

Interface
Standard (Built-in): USB 2.0 Hi-Speed, 10/100Base-T/TX
Optional: IEEE1394 (FireWire)

Acoustic Noise
Operation: 52dB (A) or Less

Standby: 35dB (A) or Less

Acoustic Power: 6.8 Bels or Less

Power Supply
AC 100-240V (50-60Hz)

Power Consumption
Maximum: 190W or Less
Standby: 6W or Less (11W or less when IEEE1394 is mounted)

Power Off: 1W or Less (Executive Order Compliant)

Certifications
Electrical Safety Regulations
UL (USA), C-UL (Canada), S mark
(Argentina), CE mark (EN60950, EN55022
classB, EN61000-3-2, EN-61000-3-3, EN55024)
(EU), CB certification (Others)

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

Environmental Certifications
ENERGY STAR® (Worldwide), RoHS
Directive, WEEE, Executive Order (USA)

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
iPF810/iPF810 PRO
45.1" x 74.6" x 50.9" (1144mm x 1893mm x 1291mm),
Approx. 335 lb. (152kg)

iPF820/iPF820 PRO
45.1" x 74.6" x 50.9" (1144mm x 1893mm x 1291mm),
Approx. 417 lb. (189kg)

Package Dimensions (H x W x D) and Weight
iPF810/iPF810 PRO
49.8" x 92.5" x 62.4" (1263mm x 2384mm x 1585mm),
Approx. 664 lb. (301kg)

iPF820/iPF820 PRO
49.8" x 92.5" x 62.4" (1263mm x 2384mm x 1585mm),
Approx. 768 lb. (348kg)

Options

- IEEE1394 Expansion Board (EB-05)
- 44" Plain Paper Stacker (STK1-94)
- Take-Up Unit (TU-06)
- Roll Holder Set (RH2-44)
- PosterArtist

User-Replaceable Items

- Ink Tank (PFI-303/PFI-703)
- Print-Head (PF-03)
- Maintenance Cartridge (MC-09)

What's In The Box
iPF810
Printer, Portable Media Basket, User Software CD
(Printer Driver, HDI Driver, Utilities), 5 Ink Tanks
(MBK, C, M, Y, K), 2/3" Core Media Spool, Print-Head,
Maintenance Cartridge, Quick Setup Guide (Poster),
Printer Reference Guide (Booklet), Power Cord,
One-Year Onsite Limited Warranty, Registration
Card, Stand, Hardware (For Setting Up the Printer)

iPF820
All items included in iPF810, plus Secondary Roll Unit

iPF820 PRO/iPF810 PRO
All items included in iPF810 or iPF820, plus
CAD|STATION PS+ Package

* 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 AutoCAD or AutoCAD LT 2000/2000i/2002/2004/2005/2006/2007/2008/2009

‡ For high-speed and error-free printing of PostScript files such as PS, PDF or EPS, using CAD|STATION PS+ software in iPF810 PRO or iPF820 PRO is strongly recommended. Alternatively, other PostScript compatible RIP package may be used to print PostScript files. 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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