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imagePROGRAF iPF685MFP Pro



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Large Format Multi-Functional Printer for all your Technical drawing requirements.

Copy and Print technical drawings up to 24” (A1) size with an easy-to-use touchscreen interface.

Scan to multiple locations, including your network, email and to the cloud to allow you to share documents the way you want.

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no one sees print like you

Advanced Preview

Edit scanned document before printing to reduce wastage and costs

23” touchscreen input

Large touchscreen for ergonomic and natural input

Direct Print & Share

Canon propriety utility to allow sharing and printing of documents with minimal training and user experience

Sub-ink tank system

Ink can be changed without interrupting a print job

Accounting Manager

Software helps keep track of printing costs

At a glance

- 24” (A1) printing width
- 25” scanning width
- Optional 300ml bulk ink tanks
- Borderless printing
- Accurate scalable copies
- Mulitpage pdf file creation
- pdf/a file format
- RGB colour adjustments
- Auto crop
- Shelf for PC peripherals (keyboard & mouse)



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Printer Specifications

General	
Model	iPF685
Class	24-inch
Ink Type	Dye and pigment reactive ink: BK, MBK , C, M, Y
Maximum Print Resolution	2,400 x 1,200dpi
Installation	User installation
Dimensions, Weight (Net) W x D x H (mm), (Kg)	
Main unit + Printer Stand (with a basket open)	W997 x D887 x H1062mm (When with basket open) W997 x D1100 x H1062mm (When a basket is at the extended position for flatbed stacking). Weight: 56.9kg (roll holder included, no inks, no print heads)
Main unit (with a basket open)	W997 x D757 x H507mm (When with basket open) Weight: 46.2kg (roll holder included, no inks, no print heads)
Dimensions, Weight (Packaged) W x D x H (mm), (Kg)	
Main unit (with a palette included)	W1127 x D878 x H795mm, Weight: 74.0kg
Printer Stand	W1083 x D766 x H350mm, Weight: 19.0kg
Power Supply	
Input power	AC 100 - 240 V (50-60 Hz)
Power consumption	Operation: 140W or less
At the low power mode 220 V - 240 V	5W or less
Power off (standby)	0.5W or less
Operational Environment	
Temperature: 15 - 30°C, Humidity: 10 - 80 % (Condensation free)	
Acoustic Noise	
Acoustic pressure	Operation: approx. 47 dB (A) (Plain paper, Standard printing mode, Line Drawing/Text). Standby: 35 dB (A) or less. Measured in the above conditions, based on ISO 7779
Acoustic power (LWAd)	Operation: approx. 6.4 Bels (Plain paper, Standard printing mode, Line Drawing/Text). Measured in the above conditions, based on ISO 7779
Minimal Line Width	
0.02mm (Theoretical value)	
Line Accuracy	
±0.1 % or less. User adjustments necessary. Printing environment and media must match those used for the adjustments. CAD paper required: Plain paper, CAD tracing paper, coated paper, CAD translucent matte film only.	
Detector and Adjustment	
Registration adjustment	Automatic / Manual
Banding adjustment (Line Feed adjustment)	Automatic / Manual
Line length adjustment	Manual
Head slant adjustment	Automatic / Manual
Colour calibration	No
Head gap adjustment	Automatic / Manual (6 levels)
Non-firing detection	Yes
Non-firing compensation	Yes
Roll media remaining detection function	Yes
Memory	
Standard memory	32GB (256 Mbyte)
Expansion slot	No
Firmware	
Languages - Printer Language	GARO (Graphic Arts language with Raster Operations), HP-GL/2, HP RTL
Languages - Job Control	CPCA
Languages - Status Reply	CPCA, SNMP-MIB (Standard MIB, Canon-MIB)
Type	Flash ROM
Update	Updated from USB, 1394, Ethernet port (Utility use)
Operation Panel	
Display	Large LCD: 160 x 128 dots; Key x 13, LED x 5
Language on operation panel	US-English, Japanese
Languages	US-English, French, German, Italian, Spanish, Chinese (simplified), Korean, Russian, Brazilian portuguese language, Japanese (Kanji)
Hard Disk Drive	
320GB	
Interface	
USB - Type	Built-in
USB - Mode	Full Speed (12 Mbit/sec), High Speed (480 Mbit/sec), Bulk transfer
USB - Connector Type	Series B (4 pins)
Ethernet - Type	Built-in
Ethernet - Standard	IIEEE 802.3 10base-T. IEEE 802.3u 100base-TX / Auto-Negotiation. IEEE 802.3ab 1000base-T / Auto-Negotiation. IEEE 802.3x Full Duplex. IEEE 802.3az EEE
Ethernet - Protocol	SNMP (Canon-MIB supported), HTTP, TCP/IP (IPv4/IPv6)
Expansion Slot	
No	
Print Head	
Model	PF-04
Type	Bubble-jet on demand
Head configuration	6 colours integrated type (6 chips per print head x 1 print head)
Nozzle pitch	1, 200 dpi x 2
Nozzle per chip	MBK: 5, 120 nozzles, each other colour: 2, 560 nozzles
Droplet size	Minimum 4pl (per colour)

Ink Tank	
Model	PFI-107 (130ml) / PFI-207 (300ml)
Supply	Tubing system (supplies ink from independent ink tanks set in the printer through tubes)
Colours	MBK, BK, C, M, Y
Capacity	Bundled starter ink : 90 ml (Only MBK 130ml), sales ink: 130ml / 300ml
Level detection	Detected by dot count and electrode (Empty)
Smart chip	Each ink tank is equipped with EEPROM which stores its ink level
Cutter	
Model	-
Type	Standard: Automatic horizontal cutting (Rotary cutter)
Replacement	Service replacement
Media Handling	
Media Feed and Output - Roll paper	One Roll, top loading, front output
Media Feed and Output - Cut sheet	Top-feeding, font output (Manual feed using media locking lever)
Media Feed and Output - Paper path switch	Manually switchable by user
Media Feed and Output - Delivery direction	Face-up, front side
Maximum stacking number of delivered print	1 sheet: In case of the regular basket position. Approx. 20 sheets: In case the basket is at the extended positions. (Except for the cases where delivered prints are rolled in because of environmental impact and media curls.)
Types of media stackable on the extended basket	Plain Paper / Universal Bond Paper / Canon Premium Plain Paper 80
Usage environment of the extended basket /Image	At normal temperature and normal humidity (15°C 30% - 30°C 60%) / Image: Line drawing (images equivalent to the Cottage.)
Sizes of media stackable on the extended basket	Extended position A: A1 portrait or Width 24" x Length 36" Extended position B (Flatbed stacking): A2 landscape or Width 24" x Length 18"
Media Size - Roll paper (width)	
ISO	A3, A2, A2+, A1
JIS	B4, B2
ARCH	24"
Others	10", 14", 16", 17", Banner (300mm)
Media Size - Cut Sheet	
ISO	A4, A3, A3+, A2, A2+, A1, A0 B4, B3, B2"
DIN	C4, C3, C2,
JIS	B4, B3, B2
ANSI	8.5 x 11", 8.5 x 14", 11 x 17", 13 x 19", 17 x 22", 22 x 34"
ARCH	9 x 12", 12 x 18", 18 x 24", 24 x 36"
Photo	20 x 24", 18 x 22", 14 x 17", 12 x 16", 10 x 12", 10 x 15", 16 x 20" (US Photo size)
Poster	20 x 30", 300 x 900mm
Others	13 x 22"
Media Thickness	
Roll paper	0.07 - 0.8mm
Cut sheet	
Maximum Outside Diameter of Roll Paper	150mm
Media Core Size	Internal diameter of roll core: 2" / 3"
Media Width	
Roll paper	254 (10") - 609.6 (24")mm
Cut sheet	203.2 (8") - 609.6 (24")mm
Minimum Regular Format Size (Vertical)	
Roll paper	203.2mm (8")
Cut sheet	279.4mm (11"): Letter size (long side)
Maximum Printable Paper Length	
Roll paper	18m (Varies according to the OS and application)
Cut sheet	1.6m (Varies according to the OS and application)
Margins - Recommended area	
Roll paper	Top: 20mm, Bottom: 5mm, Left and Right: 5mm
Cut sheet	Top: 20mm, Bottom: 23mm, Left and Right: 5mm
Margins - Printable area	
Roll paper	Top: 3mm, Bottom: 3mm, Left and Right: 3mm
Roll paper (borderless printing)	Top: 0mm, Bottom: 0mm, Left and Right: 0mm
Cut sheet	Top: 3mm, Bottom: 23mm, Left and Right: 3mm
Borderless Printing	
Media width	10" (254mm), B4 (257mm), A3 (297mm), Banner (300mm), 14" (356mm), A2 (420mm), A2+/17" (432mm), B2 (515mm), A1 (594mm), 24" (610mm)

Regulations	Electrical safety regulations	Electromagnetic interface regulations	Other regulations
Australia	RCM	RCM	
New Zealand		RCM	

Environment certifications	
ENERGY STAR, RoHS directive	
Option	
Roll Holder Set (for both 2-inch and 3-inch core roll media)	RH2-26
Stand Basket	ST-27
Consumables	
Ink Tank	PFI-107 / PFI-207 MBK / BK / C / M / Y
Print Head	PF-04
Maintenance Cartridge	MC-10

Scanner Specification Comparison

M 25	
Scan width (inches)	25" (63.5cm)
Document width (inches)	27" (68.6cm)
Body width (inches)	34.2" (86.8cm)
Body depth (inches)	14.4" (36.6cm)
Body height (inches)	7.3" (18.5cm)
Weight	18Kg
CIS Configuration	SingleSensor
Illumination	Full width dual LED illumination
Image quality	Better
Stitch performance	Set in manufacturing (3)
Front/rear exit	Front
Document handling - Face up/down	UP
Max Document thickness	2.0mm(1)
Paper path	Flat
Optical Resolution (dpi)	1200
Scan speed (cm/sec) 8-bit grayscale & mono @200dpi (2)	33
Scan speed (cm/sec) 24-bit color @200dpi (2)	7.6
Interface USB	3.0 (backward compatible to USB2)
Control panel	Start/Stop, Advance/rewind, ASF (Auto Size Finder) read out

M series notes:

1. Thick documents up to 2mm must be flexible and the paper return guide removed. Some media should be scanned at reduced speeds to obtain optimal image quality. Colortrac cannot guarantee to scan all media. For large media Colortrac recommend the scanner be placed on a flat surface and the operator supports the document as it enters and exits the scanner.
2. The scan rate is proportional across the full range of resolutions supported by the scanner. Actual scan times and quoted top speeds will depend on the host performance and are not guaranteed for all media types. True 200 x 200dpi image capture. Competitors quote scan speeds using 'Turbo', 'Normal' or 'High Speed' modes that reduce image quality whilst suggesting that scan resolution is doubled. These modes use software interpolation to create 'virtual image pixels' from a lower resolution scan thereby increasing the number of pixels in the scan direction (&/or X-direction) in an attempt to simulate higher image resolution. Colortrac SmartLF scanners are designed to scan images fast at the optimum resolution required to capture the original image detail without compromising quality.
3. The SingleSensor is colour calibrated and accurately aligned to within +/- 0.5 pixel during manufacture. If the scanner is used in a stable, general office environment, scanner calibration and / or alignment may only occasionally be required. Operation in mobile, dusty or variable temperature environments may require more frequent scanner maintenance.]

Detailed specifications for M series scanners	
Scan modes	16.7 million colour RGB (24-bit) 256 colour RGB adaptive indexed colour palette (8-bit) 256 level greyscale (8-bit) Black & White (1-bit)
Digital image processing	2D Intelligent Adaptive Thresholding (IAT) (1-bit mode) Fixed Threshold Black & White (1-bit mode) (SmartWorks MFP provides aqdditional 'post scan' image processing filters and tools
Colour space	sRGB (with SmartWorks MFP)
Colour image processing	Gamma, brightness, black & white point adjustment
Media transport system	Straight media path with front entry, rear exit or rewind to front Single driven document hold-up roller Intuitive image up scanning with centre or side document alignment Magnetic media guide to assist in high volume document scanning workflows Automatic Size Finder (ASF) with media width displayed on control panel
SingleSensor digital imaging technology	SingleSensor is a full width straight-line contact image sensor of 50,400 pixels; a Colortrac invention - patent pending. Bi-directional long-life LED light system for optimum object illumination and instant-on scanning capability 48-bit primary point colour image capture 16-bit primary point greyscale image capture Panchromatic Black & White
Scanner operation & status	Centre-lid mounted control panel with LCD media width display for auto size finder with start, stop, forward and rewind buttons Scanner status indicator LED (green, amber, red)
Scan Accuracy	+/-0.1% +/-1 pixel (The achieved scan accuracy may vary depending on the operating environment and the type & thickness of media).
Scanner optics & calibration	Chemically treated, scratch resistant, anti-Newton ring (AG) scan glass Automatic SingleSensor calibration. The SingleSensor is colour calibrated and accurately aligned to within +/- 0.5 pixel during manufacture. If the scanner is used in a stable, general office environment, scanner calibration and / or alignment may only occasionally be required. Operation in mobile, dusty or variable temperature environments may require more frequent scanner maintenance.
Interface	SuperSpeed USB3 with 3 metre USB3 cable (PC connector compatible with USB2 and USB3 sockets) Local power cable
Power requirements & consumption	External power supply 100~240VAC autosensing +/-10%, 50~60Hz Scanner power consumption 53W (scanning), 5W (standby) @ 110V/240V
Environmental/Approvals	RoHS compliant and CE, FCC, VCCI, UL, CB, CCC certification.
Operating conditions	10°C – 35°C, 35% - 80% RH non-condensing
Stands	Stand must be mounted integral to the printer. Scanner tilted towards user. PC and flat screen VESA mounting kit. Screen can be mounted left or right and on a pole or swing arm. Paper Return Guide – curved to redirect flexible scanned documents forward to operator. Can be lifted off when not required or for scanning thick or non-flexible media.



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