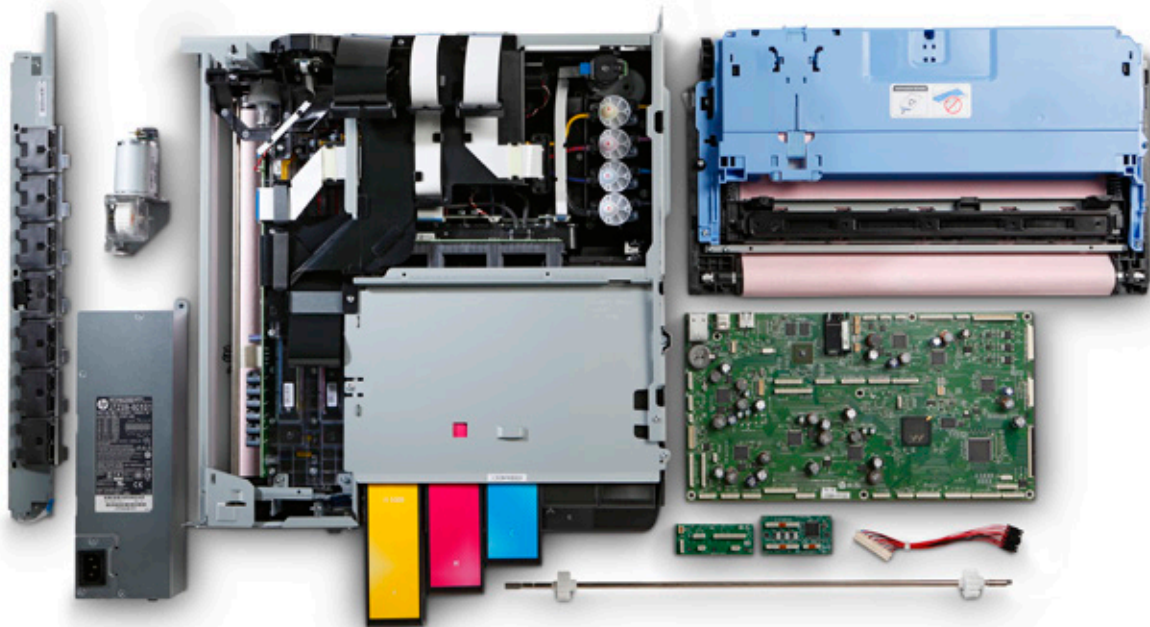


Data sheet

# HP OEM Fixed Imager 1000

Fast, versatile, durable pigment ink



HP PageWide technology printhead with 297.18 mm (11.7 in) print width

Supports unlimited media size

HP pigment ink

CMYK individual ink supplies

Print speed up to 18 ips

**Standard connectivity:**

One high-speed USB 2.0 device port plus one 10/100/1000 Base-Tx Ethernet port

5 GPIOs, 3 GPIs, and 2 GPOs plus a door, power, Top of Form and media path quadrature encoder inputs

CMYK contone raster input format via HP-provided Windows DLL

Above-media-path service station for nozzle health, wiping, and capping

The HP OEM Fixed Imager 1000 (FI-1000) offers OEMs the latest HP PageWide technology in a set of sub-assemblies and reference designs for building a fast, A3 (297.18 mm / 11.7 in), color inkjet solution.

## Fast

HP FI-1000 produces best-in-class speed with its fixed head solution and straight through print path design. It supports print speeds for a variety of industries on inkjet transport bases, as needed for direct mail envelope printing, and overprinting for specialty boxes and packages.

## Easy to use

The FI-1000 is a collection of sub-assemblies, providing numerous options for OEMs to build customized solutions. The Bar-in-Box (BnB) is the centerpiece of the solution. This self-contained and easily replaceable unit is comprised of the printhead, service tray, ink delivery system (IDS) and the printhead elevator. The service tray is also available separately. The rest of the sub-assemblies include a main printed circuit assembly (MPCA), optional power supply, left rear upper PCA, service sled drive, ink short detection PCA, service station drive shaft assembly, upper paper guide and assorted cables. The FI-1000 comes with many reference designs that allow you to speed up design and manufacturing time. The FI-1000 is mounted onto the media path. This provides you with a Top of Form input, Cover Open input, power on/off input, and GPIOs to enable customization and integration options. Also available are 3.3V, 5.1V, and 12V outputs.

## Durable pigment ink

HP pigment ink that is fully tested for the FI-1000 gives you the confidence of HP quality behind every ink supply. The pigment ink provides durability on a wide range of porous medias and has been tested for light-fastness, water durability, and scratch resistance. Our pigment inks adhere to porous media so well that they survived a three-month salt water dunk test in the English Channel. **Now that's permanence!**

### Sample applications include:

- Specialty packages – Such as gift and shopping bags
- Small boxes – For gifts, shipping, and more
- Envelopes – Such as #10, large manila, bubble, and padded envelopes
- GHS and sub-prime labels



### Tabletop class

The HP FI-1000 offers a robust tabletop color solution, with the Bar-in-Box duty cycle rated up to nine liters of ink with recommended servicing routines. The large-fill supplies help reduce ink replacement interventions.

The FI-1000 is a proven fixed imager that uses advanced color thermal inkjet technology (TIJ). It provides a rugged platform with design specs that support a metal base plate. This allows you to mount the print mechanics in a variety of configurations to suit your needs.

This print engine is perfect for OEMs who:

- Can handle images up to 36" long and unlimited print job length (limited only by ink availability)
- Want a rugged development platform already tested and validated with proven HP expertise
- Value the advantages of TIJ and the competitive edge that comes from partnering with a recognized technology leader

### Media path and integration options

The FI-1000 can be integrated onto any flat media path using the reference designs provided. You can tailor the printhead to the table base spacing according to the application requirements and media thickness.

With an integrated service station located above the media path, no special provisions are required in the media path for nozzle health, wiping, or capping.

### Wide-ranging print zone

The FI-1000 is designed with a 279.18 mm (11.7 in) print zone, which supports a wide range of media sizes. Media sizes larger than 11.7 in are possible with the appropriate OEM design and media path. This wide-ranging print zone capability makes the FI-1000 a highly versatile solution.

### Software integration

The CMYK contone raster format gives you control over the color output to best meet the desired rendering intents. A feature-rich command/status interface is also available to perform functions and get status from the printer.

With an offline scanner, HP-provided Windows DLL files are used for printhead alignment and die-to-die density calibration. A Windows executable file is also provided to be used for drop detection.





## Color print quality

The FI-1000 offers a four-color ink system to provide an optimal combination of print quality and performance suitable for most applications. This technology uses a pigment-based ink set to produce high-quality, durable images and crisp, laser-like text.

Depending on the media, this system can achieve outstanding lightfastness and fade resistance.

### HP's photo-quality print cartridges offer:

- **Versatility** – Prints on a wide range of porous media types.
- **Permanence** – HP pigment ink provides durability in fade, scratch, and water resistance.
- **Photo quality** – The four-color ink system produces long-lasting, brilliant colors.
- **Proven reliability** – HP's worldwide recognition for product quality, reliability, and service creates a winning combination for you as an OEM partner.
- **Ease-of-use** – Simple, quick replacement minimizes downtime.
- **Economical output** – Efficient ink delivery system provides a low cost-per-print advantage.
- **Revenue stream** – Restricted SKUs available only through licensed OEM partners.



## Versatile, economic, high-quality ink cartridges

The FI-1000 works with OEM generic ink supplies only. The printhead and ink supplies offer all the advantages of HP's latest inkjet technology. Thousands of tiny nozzles allow high-quality printing at high speeds.

Precise ink drop placement produces consistently superb image and text quality in color and black-and-white on a wide variety of media. SPS offers OEMs the tools to custom-key their supplies to protect supplies revenue.












## Reference designs

Instead of full imaging solutions, SPS provides reference designs and technical support to OEM partners for higher integration flexibility, particularly for servicing and paper path designs. You can create customized solutions for specialized commercial printing applications.


## HP engineering expertise and support

HP works with you to quickly adapt and customize this fixed imager to meet your market needs. These products provide a high return on investment compared to standard consumer printing platforms.

## HP OEM Fixed Imager 1000 (FI-1000) Specifications

<b>Product offering</b>	HP PageWide printer sub-assemblies based on the HP PageWide Pro 750dn/dw printer with custom firmware and software and optional Class 1 external power supply to ease product integration			
<b>P/N</b>	 4CC91A	OEM FI-1000 Page Wide Bar in Box	 4CC97A	OEM FI-1000 Svc Station Driveshaft Assy
	 4CC92A	OEM FI-1000 Service Tray	 4CC98A	OEM FI-1000 Ink Short Detection PCA
	 4CC93A	OEM FI-1000 Main PCA Board Assembly	 4CC99A	OEM FI-1000 Power Supply (optional)
	 4CC94A	OEM FI-1000 Service Tray Motor	 4CD00A	OEM FI-1000 Pwr Sply Main PC Board Cable
	 4CC95A	OEM FI-1000 90-pk Lft Rear Upr PC Board	 4CD01A	OEM FI-1000 Upper Paper Guide Assembly
	 4CC96A	OEM FI-1000 Left Rear Upper FF Cable Kit		
<b>Print speed</b>	Up to 18 ips depending on print quality setting, coverage, media size, and page gap. Approximate speed examples: <ul style="list-style-type: none"> <li>#10 envelopes = 175 prints per minute (10K printers per hour)</li> <li>Letter size (215.9 mm x 279.4 mm / 8.5 in x 11 in) = 90 prints per minute</li> <li>A3 = 16 prints per minute</li> </ul>			
<b>Print quality</b>	Same as HP PageWide Pro 750dn, dependent on media path quality. OEMs can quickly assess if print quality meets their requirements using this retail version printer, available as a separate purchase.			
<b>Resolution</b>	<b>High Resolution Mode:</b> 1200 x 1200 optimized dpi from 600 x 600 input dpi. <b>Production Mode:</b> 600 x 1200 optimized dpi from 300 x 300 input dpi.			
<b>Image format</b>	CMYK contone raster data, 600 or 300 DPI, formatted for print engine via HP-provided Windows DLL RGB PCL3GUI contone raster data, 600 or 300 DPI			
<b>Connectivity</b>	One high-speed USB 2.0 device port, one 10/100/1000 Base-Tx network port (Wi-Fi is not supported), power button input, Top of Form input, quadrature encoder input, 5 GPIOs, 3 GPIs and 2 GPOs via three FFC cables.			
<b>Printer ID customization</b>	Device ID 'CID' field mapped to configurable driver plus programmable serial number, manufacturer, brand name, model name, model number, and USB VID/PID (no USB device ID string status extensions)			
<b>NVRAM customization</b>	Programmable OEM fields			
<b>Supported image lengths</b>	2.54 cm – 91.44 cm (1 in - 36 in), depending on print mode			
<b>Printer behavior customization</b>	<ul style="list-style-type: none"> <li>Customize the fixed imager's mechanical behavior via scripts</li> <li>Trigger printer actions via GPIOs</li> <li>Trigger printer actions via PC software over software-firmware interface from PC</li> </ul>			
<b>Available printer status</b>	<ul style="list-style-type: none"> <li>Available via software-firmware interface over USB and Ethernet</li> <li>Includes printer error codes and estimated ink cartridge ink level</li> </ul>			
<b>Power supply</b>	<ul style="list-style-type: none"> <li>Sold separately</li> <li>Optional Class I (3-wire) LPS universal power supply, external, 33V / 215W nominal output (P/N 4CC99A)</li> <li>3.3V, 5.1V and 12V (TBD power) provided via OEM connector on Main PCA</li> </ul>			
<b>Operating environment</b>	<ul style="list-style-type: none"> <li>Operating temperature range: 15°C to 30°C (59°F to 86°F)</li> <li>Operating humidity range: 15% to 80% RH (non-condensing), 20% to 80% recommended</li> <li>Storage temperature range: -40°C to 60°C (-40°F to 140°F)</li> <li>Non-operating humidity range: 10% to 90% (non-condensing)</li> </ul>			
<b>Drop detection</b>	Windows executable using offline scanner (OEM provided) and print then scan process			
<b>Dimensions (cm)</b>	(L x W x H) 101.6 x 116 x 121.1 for the BnB only			
<b>Weight (kg)</b>	6.6 for the BnB only			

## HP OEM Fixed Imager 1000 (FI-1000) Printhead and Cartridge Specifications

<b>Printhead</b>	HP PageWide technology TIJ4 printhead, replaceable as part of BnB			
<b>Print Swath</b>	297.18 mm (11.7 in)			
<b>Nozzle Count</b>	59136 (4224 x 14)			
<b>Resolution</b>	1200 nozzles per inch, per color			
<b>Average Drop Volume</b>	10 pl K, 8.5 pl CMY			
<b>Ink Supplies P/N</b>	 3UB06A	OEM FI-1000 Cyan Cartridge	3UB08A	OEM FI-1000 Yellow Cartridge
	3UB07A	OEM FI-1000 Magenta Cartridge	3UB09A	OEM FI-1000 Black Cartridge
<b>Ink cartridge type</b>	Individual ink supply			
<b>HP ink type</b>	Pigmented aqueous ink			
<b>Ink fill (ml)</b>	Approximately 498 black, 237 cyan, 233 magenta, 225 yellow			
<b>Dimensions (L x W x H)</b>	21.1x9.45x4.4 cm Black, 21.1x4.7x4.4 cm Cyan, Magenta, Yellow			

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