

HP Designjet 90 Printer series



Focus on your creativity with this professional, C+/A2+-size photo printer: the HP Designjet 90. HP Professional Color Technologies deliver consistent color output while HP Vivera Inks and select HP papers provide exceptional fade resistance.¹

Experience professional color

- Rich color depth and minimal dot visibility. Proprietary dyebased HP Vivera Inks in HP six-ink color printing work to deliver a wide range of colors, deeper blacks, continuous tones, and gloss uniformity. A four-picoliter ink-drop size maintains fine detail reproduction, especially in dark areas, and smooth tonal transitions.
- Maximum color consistency. See reliable, consistent color from print to print. HP invests in HP Professional Color Technologies making your color experience simple and straightforward. Plus, enjoy more robust color and job management capabilities.
- Revolutionary HP Vivera inks. HP Vivera inks are carefully
 engineered to work flawlessly with all parts of the
 printing system so you achieve rich, vibrant colors and
 extraordinary photo image quality, time after time. Graphic
 designers and professional photographers can rest assured
 that the images they create will maintain their impact.

Live out your creativity

 Optional EFI software RIP. Add the optional EFI software RIP to expand your printing options and enhance color accuracy. The EFI software RIP provides Adobe® PostScript® 3™ support and optional Automatic PANTONE® calibration. Added to that, you get enhanced job management capabilities for greater control. Spend just a little more to get a lot more from this professional, versatile printer.⁴

- Print high-quality images quickly. Print high-quality images on B+/A3+ -size media at four minutes per page in Normal print mode. Use Draft mode for proof printing to deliver B+/A3+ -size prints quickly. No matter which mode you choose, you'll appreciate the quality that comes from HP technology.
- Experience full color workflow support. Your design software choices expand when you use the HP Designjet 90 Printer series, which enables color solutions for every color workflow. The print preview ensures correct layout and you can add optional EFI software if you need color management in a CMYK workflow.

Valuable time and cost savings

- Save time and increase productivity. Cost-effective, individually replaceable HP ink cartridges and printheads maximize efficiency and provide reliable operation that minimizes user intervention and improves productivity. 3-ink multipacks provide additional savings and convenience for high-volume printing.
- Wide range of media weights and types. Choose the media type that best conveys your concepts with durable HP media. The HP Designjet 90 Printer series can handle stock in weights up to 80 lb (300 g/m²), as well as thick or rigid media (up to 15 mil). Choose from a variety of HP media finishes. Furthermore, you also benefit from the added convenience of four different HP 18 in (457 mm) media rolls.²

HP Designjet 90 Printer series

- LCD printer status indicator for ink supply maintenance and print message alerts
- 2. Media tray holds up to 70 sheets of standard-size media (up to C+/A2+ -size)
- 3. Front bypass slot accommodates cut sheet media up to 18 in (457mm)
- Small footprint allows placement of printer on tabletop or in common work area
- USB and parallel connection ensure easy system integration. Optional network connectivity with compatible HP Jetdirect network cards
- Rear bypass slot handles heavy and rigid media of weights up to 80 lb (300g/m²)
- Roll feed (optional with HP Designjet 90 Printer) feeds rolls up to 18 in (457 mm) wide and 150 ft (45.7 m) long

Internal color sensor for color consistency

Fade-resistant inks with 4 pl drop size for fade-resistant¹, photo-quality images

Modular ink system with six independently replaceable ink cartridges allows you to replace only the ink colors you need



HP Designjet 90 Printer front view



HP Designjet 90r Printer top view



Series at a glance

HP Designjet 90 Printer

- Input tray for 70 sheets up to 18×24 in $(457 \times 609 \text{ mm})$
- Optimized Macintosh and Windows® drivers with RGB ICC profiles
- Optional network connectivity

HP Designjet 90r Printer

All the features of the HP Designjet 90 Printer plus:

• Roll feed for printing up to 18 in (457 mm) wide

Optional accessories

- HP Designjet 90 Roll Feed accessory*
- HP Designjet 90 Spindle accessory*
- EFI Designer Edition 5.1 for HP M International
- EFI Designer Edition 5.1 for HP M Japan
- EFI Designer Edition 5.1 for HP XL International
- EFI Designer Edition 5.1 for HP XL Japan
- · Compatible HP Jetdirect network cards
- * Standard with the HP Designjet 90r

HP Color Profiling Offsite Service

The HP Color Profiling Offsite Service helps eliminate wasted time, media and ink caused by inadequate results, while improving the efficiency and effectiveness of advanced color workflow. This is done by providing an ICC profile specialized design for your printer and media. There are 2 packages available:

• UC217E: for creation of 1 profile

• UC218E: for creation at a reduced price

A great tool for professional photographers

Exceptional fade-resistant photo quality

HP Vivera inks, together with HP Premium Plus photo papers for exceptionally fade-resistant images that last approximately 82 years¹.

Fine details and faithful reproduction

Excellent highlight and shadow detail, smooth transitions and persuasive skin tones, with 4pl ink drop size. HP color layering technologies provide dense blacks, reliable color consistency and gloss uniformity.

Excellent gloss level and gloss uniformity

Dye-based HP Vivera inks provide rich color depth, minimal dot visibility, and uniform gloss-all important attributes of image quality.



An asset for graphic designers

No need to outsource or tile and assemble

Save time and money by publishing professional color prints in-house.

Media versatility up to C+/A2+ size

4 independent paper paths and a roll-feed² expand your printing capabilities, from postcards to full sized banners.

Professional color proofs

HP Color Technologies such as Professional PANTONE Emulation and CMYK+ will provide the edge to win more clients. Automatic printhead alignment and Closed Loop Color calibration deliver consistent reliable colors every time. PostScript® support through EFI Designer Edition 5.1 RIP³.



Improving the workflow of proofing professionals

Fast color stability

Obtain accurate and stable proofs quickly with new dye-based HP Vivera ink and HP Proofing media (most media are stable 10 minutes after printing).

Color consistency

Consistency is guaranteed by way of the patented Closed Loop Color calibration, which eliminates guess work.

Press simulation

Press simulation is a CMYK to CMYK transformation that changes the lightness, hue, and saturation of the CMYK files sent to the inkjet printer to match the output of a production device, giving pre-press professionals an easy-to-use and low-cost tool for producing accurate proofs. PostScript support through EFI Designer Edition 5.1 RIP³.

Flexible printing sizes

Switching easily between sheet and roll-fed media² up to 18 in (457 mm) wide, you can reliably print postcard-size images, full-color pages, or banner-style pieces.





HP Vivera Inks, specifically developed for use with HP inkjet printing systems, encompass a number of key elements that contribute to the inks' exceptional performance:

- Superior ingredients and unique ink formulations
- Exceptional ink purity
- Low-colorant inks designed from the ground up

HP Designjet 90 Printer series

int speed	
B/A3	Color image (ISO N5), Normal mode on glossy paper: 4 min/page
C/A2	Color image (ISO N5), Normal mode on glossy paper: 6.3 min/page
inting	
Print resolution	Up to 2400 x 1200 dpi
Margins	Sheet: $0.2 \times 0.47 \times 0.2 \times 0.2$ in $(5 \times 12 \times 5 \times 5 \text{ mm})$; roll: $0.2 \times 0.2 \times 0.2 \times 0.2$ in $(5 \times 5 \times 5 \times 5 \text{ mm})$
Technology	HP Thermal Inkjet
Technology resolution	HP Color Layering technology, PhotoREt IV
Ink types	Dye-based HP Vivera inks
Ink colors	Cyan, magenta, yellow, black, light cyan, light magenta
Ink drop	4 pl
Print heads	6 (1 each cyan, magenta, yellow, black, light cyan, light magenta)
Minimum line width	0.002 in (0.04 mm)
edia	
Handling	70-sheet input tray, 50-sheet output tray, front single-sheet paper feed, rear path for manual single-sheet feed, rear roll feed with automatic cutter
Types	Bond and coated paper (coated, heavyweight coated, plain), photo (gloss, satin, matte),
./	proofing (high-gloss contract, semi-gloss contract, matte)
Weight	Tray 1: 17 to 40 lb (65 to 150 g/m ²); manual single-sheet feed: 17 to 40 lb (65 to 150 g/m ²);
	rear path: up to 80 lb (300 g/m²); roll feed: 17 to 40 lb (65 to 150 g/m²)
Size	Tray 1: 3 x 5.6 to 18 x 24 in (76 x 142 to 457 x 610 mm); manual single-sheet feed:
	4.3×8.1 to 18×24 in (110 x 205 to 457 x 610 mm); rear path: 4.3×8.1 to 18×24 in
	(110 x 205 to 457 x 610 mm); roll feed: up to 18 in (457 mm)
Thickness	Tray 1: up to 8 mil; envelopes: up to 15 mil; front path: up to 8 mil; rear path: up to 15 mil;
	roll feed: up to 8 mil
Standard sizes	Letter, legal, tabloid, C, envelopes, banners (A2, A3, A4, B3, B4)
onnectivity	25161, 15gai, 1421614, 6, 511616655, 24111616 (12), 110, 111, 150, 21,
Interfaces (standard)	USB 1.1 (USB 2.0 compliant), Centronics parallel IEEE-1284 (ECP compliant), 1 EIO slot
Interfaces (optional)	HP Jetdirect 620n, 630n, 635n, 690n, 175x, en1700, en3700, ew2400 Print Servers
Print languages	PCL 3 GUI RGB 24-bit Contone; optional: Adobe PostScript 3 via software RIP
Drivers (included)	PCL 3 GUI Windows driver; Microsoft® Windows drivers (Vista®, XP, 2000); Raster driver for
Directs (included)	Mac OS X v10.3, v10.4, v10.5
pported operating systems	
	Windows Vista, XP Home, XP Professional, Server 2003, 2000; Raster driver for Mac OS X
	v10.3, v10.4, v10.5
mensions (w x d x h)	
Printer	90: 35 x 15.7 x 8.7 in (890 x 400 x 220 mm), 90r: 35 x 20.5 x 8.7 in (890 x 520 x 220 mm)
Maximum	35 x 38.6 x 8.7 in (890 x 980 x 220 mm)
Shipping	43 x 22 x 20 in (1034 x 544 x 498 mm)
eight eight	
Printer	90: 40.8 lb (18.5 kg), 90r: 43 lb (19.5 kg)
Shipping	90: 68 lb (31 kg), 90r: 73 lb (33 kg)
'hat's in the box	
HP Designjet 90 Printer	HP Designjet 90 Printer, printheads (x6), ink cartridges (x6), input/output tray, input tray cover, HP media
	samples, documentation and drivers CD, quick reference guide, setup poster, USB cable (AP, EMEA, LAR),
	power cord
HP Designjet 90r Printer	HP Designjet 90r Printer, roll feed, spindle, printheads (x6), ink cartridges (x6), input/output tray, input tray
	cover, HP media samples, documentation and drivers CD, quick reference guide, setup poster, USB cable

Ordering information

Produc

HP Designjet 90 Printer

Q6656B HP Designjet 90r Print

Accessories

Q6662A HP Designjet 90 Roll Feed Accessory (standard on 90r Q6661A HP Designjet 90 Spindle Accessory (standard on 90r)

26641D EFI Designer Edition 5.1 RIP for HP (M) Intl 26642D EFI Designer Edition 5.1 RIP for HP (M) Japan 26643D EFI Designer Edition 5.1 RIP for HP (XL) Intl 26644D EFI Designer Edition 5.1 RIP for HP (XL) Japan 7934G HP letdirect 670n Fast Ethernet Print Server

nk supplie

C9420A HP 85 Cyan Printhead
C9421A HP 85 Magenta Printhead
C9422A HP 85 Yellow Printhead
C9423A HP 85 Light Cyan Printhead
C9424A HP 85 Light Magenta Printhead

59425A HP 85 Cyan Ink Cartridge (28 ml) 59426A HP 85 Magenta Ink Cartridge (28 ml) 59427A HP 85 Yellow Ink Cartridge (69 ml) 59428A HP 85 Light Cyan Ink Cartridge (69 ml) 59429A HP 85 Light Magenta Ink Cartridge (69 ml)

Modia

25486A HP Premium Plus Gloss Photo Paper, B+, 25 sheets 25487A HP Premium Plus Gloss Photo Paper, C+, 20 sheets

P20A HP Premium Plus Satin Photo Paper 18 in x 50 ft /458 mm x 15.2 m

Q5492A HP Matte Photo Paper, B+, 50 sheets
Q1967A HP Matte Proofing Paper, B+, 100 sheet

Q8662A HP Professional High-gloss Contract Proofing Paper B+, 50 sheet.

Q7970A HP Professional Semi-gloss Contract Proofing Paper B+, 50 sheet.

HP Care Pack Services

UC744E HP Installation Services with Network Setup
U3477E HP 3-Year Next Day Onsite Services
UC217E HP Color Profiling Service - 1 Profile

For more service options visit: www.hp.com/go/lookuptool HP Care Pack Services call 1-800-633-3600 for service.

More HP media sizes and weights available at www.hp.com/go/designjet/supplies

Environmental ranges

Operating temperature
Recommended operating temperature 59 to 91° F (15 to 35° C) -13 to 131° F (-25 to 55° C) Storage temperature Operating humidity 20 to 80% RH Recommended humidity Storage humidity 0 to 95% RH Acoustic Sound pressure, active 50 dB(A) Sound pressure, standby Sound power, active 6.2 B(A) Sound power, standby 5.4 B(A) Power consumption Maximum 65 watts Standby Power requirements Input voltage 100 to 240 V ac (+/- 10%) auto ranging, 50/60 Hz (+/- 3Hz), 2 A maximum Safety IEC 950-compliant, EU LVD and EN60950 compliant, CSA certified for US and Canada, Mexico NOM-1-NYCE, Argentina (RAM, China CCC, Singapore PSB, Russia VNIIS, Korea KTL Compliance for Class B products, Class A when connected to LANs: EU (EMC Directive), USA (FCC rules), Canada (DoC), Australia (ACA), New Zealand (MoC), China (CCC), Japan (VCCI); Class A: Korea (MIC), Electromagnetic ENERGY STAR® qualified models see: http://www.hp.com/go/energystar

One-year, next-business-day, onsite warranty

Footnotes

- 1) Wilhelm Imaging Research, Inc. concluded that prints made with HP No. 85 ink cartridges and HP Premium Plus Photo and Proofing paper may be displayed indoors under glass for 82 years before noticeable fading and staining occur (see http://www.wilhelm-research.com for details). Display permanence ratings are based on accelerated light stability tests conducted at 35 klux with glass-fillered, cool white fluorescent illumination with the sample plane air temperature maintained at 24° C and 60 percent relative humidity. Data was extrapolated to display conditions of 450 lux for 12 hours per day using the Wilhelm Imaging Research, Inc. Visually-weighted endpoint criteria set v 3.0 and represent the years of display for easily noticeable fading, changes in color balance, and/or staining to occur.
- Roll-feed device is standard on the Designjet 90r model, optional (not included, sold separately) on the Designjet 90 model.
- 3) The EFI software RIP is optional (not included, sold separately). Some color technologies are also optional as they require the EFI software RIP.
- 4) HP has worked with the leading RIP vendors to ensure easy integration of the HP Designjet 90 into your workflow

















For more information, visit our website at www.hp.com/go/designjet90

(AP, EMEA, LAR), power cord

© Copyright 2004, 2008 Hewlett-Packard Development Company, LP. The information contained herein is subject to change without notice. The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editional errors or omissions contained herein. Microsoft, Windows, and Windows Vista are U.S. registered trademarks of Microsoft Corporation. ENERGY STAR and the ENERGY STAR mark are registered U.S. marks. Adobe PostScript 3 and PostScript are trademarks of Adobe Systems Incorporated. PANTONE is the property of Pantone, Inc.



Warranty Support call 1-800-HP INVENT