



productive



accurate

data sheet



hp designjet 10ps/20ps/50ps
printing systems
B+ color graphics printers

HP Designjet 10ps/20ps/50ps printers deliver fast, photo-quality, color-accurate comps and proofs with the look and feel of offset prints. HP offers graphics customers the choice of a user-based HP RIP or a server-based HP RIP for workgroups. For pre-press professionals, HP includes a pre-press software RIP with workflow enhanced by Heidelberg®.

color accuracy

- internal color sensor and automatic closed-loop color calibration for color accuracy and consistency, print to print, printer to printer
- automatic PANTONE® calibration, offset emulation, ICC profiles for Macintosh® and Windows® and Apple® ColorSync™ compatibility provide color matching at every step of your workflow
- 100% SWOP™ coverage on hp proofing gloss, semi-gloss and matte B+ media

photo-quality imaging

- 6-color writing system with hp color layering technology delivers a wide color gamut with smooth transitions
- four-picoliter drop size and 2400 dpi resolution combine to produce true photo-quality prints and proofs

fast printing

- immediate proofing—full-color B-size proofs take 4 minutes in “best” mode, 2 minutes in normal mode
- server-based RIP options supply fast return to application time for better productivity
- modular ink delivery system with long-life printheads and separate ink cartridges minimize user intervention, reduce the cost per print, and lower overall cost of ink

The HP Designjet printing solution—HP printers, ink systems, and printing material—engineered and tested together to ensure uncompromising print quality, performance, and reliability.

hp designjet 10ps • 20ps • 50ps

hp designjet 50ps shown



highlights

- 2400 x 1200 dpi using hp premium photo paper
- 6-color printer (CMYKcm) with separate hp ink cartridges
- B-size graphics in 4 mpp ("best" mode) and 2 mpp (normal mode)
- closed-loop-color calibration for consistency and repeatability
- automatic PANTONE® calibration and offset press emulations
- Apple ColorSync compatible plus ICC profiles
- 16 MB RAM

hp designjet 10ps

the personal solution

- standalone hp RIP
- Adobe® PostScript® 3™ drivers for Windows and Macintosh
- 150-sheet input tray

optional accessories

- 250-sheet input tray
- hp jetdirect 610n network card
- server-based hp RIP software
- hp automatic duplex unit
- hp pre-press software

hp designjet 20ps

the workgroup solution

- server-based hp RIP for multiple users
- Adobe PostScript 3 drivers for Windows and Macintosh
- 150-sheet and 250-sheet input trays

optional accessories

- hp jetdirect 610n network card
- hp automatic duplex unit
- hp pre-press software

hp designjet 50ps

the pre-press solution

- hp pre-press RIP with workflow enhanced by Heidelberg
- Adobe PostScript 3 drivers for Windows and Macintosh
- 150-sheet and 250-sheet input trays
- hp jetdirect 610n network card

optional accessories

- hp automatic duplex unit

hp designjet 10ps/20ps

designed for professionals

graphic designers: freelancers, small graphic design studios and agencies, in-house graphic design departments, publishers

fits your workflow

choice of user-based hp software RIP or server-based hp software RIP for workgroups—both support Macintosh and Windows

makes you more effective

- impressive client presentations with real size and color
- fewer iterations and higher customer satisfaction
- greater productivity with instant output
- lower costs and faster turnaround with in-house printing and proofing

offers the RIP capabilities you need

- color profile, emulation and calibration tools deliver accurate, consistent results—plus the ability to add new emulations and media profiles
- layout management features let you control the appearance of your page, including scaling and preview options
- job handling features allow you to see the queue, and cancel or reprint jobs to make you more efficient
- print management options allow easy media selection and ICC profile selection

hp designjet 50ps

pre-press houses, reproduction companies, publishers, commercial printers

Windows NT®/2000 server-based hp software RIP with Macintosh and Windows driver support

- hp RIP with Heidelberg workflow provides seamless integration into pre-press environments
- high customer satisfaction by meeting client expectations
- lower cost alternative for digital proofing
- key color, layout, and job management functions of the hp designjet 10ps and 20ps printers, plus additional capabilities to support the pre-press workflow
- color management: offers spot color editing, handles up to 16 color separations (CMYK+12), and device emulations via ICC profiles
- layout management: offers registration marks, crop marks, sluglines, clip to page, and color scale
- workflow management: supports remote queue access, job status, client preview, user management, and virtual printers
- file formats: supports additional pre-press file formats such as TIFF/IT (PI Contone), DCS 2.0 (from application)

uptime, productivity & performance

HP delivers the help you need to stay up and running, producing the professional output you need to keep your business in business. Every HP Designjet 10ps, 20ps and 50ps printer is backed by an entire network of HP-authorized technical professionals and by a wide array of support services.

warranty and service

- a 12-month express exchange warranty with next-day service in most areas
- warranty extension available via hp supportpack products

24-hour support @ www.designjet.hp.com

- driver and software downloads
- online diagnostics for interactive troubleshooting
- users forums with hp users and technical experts
- e-mail option and subscription services

whenever you need it

- interactive phone support during regular business hours
- professionals answer questions and, when necessary, arrange for service
- over 80% of customer problems are resolved with the first phone call



technical specifications

hp designjet 10ps • 20ps • 50ps

1.6 MB RAM
USB and Centronic parallel connections
Adobe PostScript 3 HP RIP
Color Management

print performance

size	fast	normal	best
B-size (image)* Letter (text)**	10 ppm	2 m/page	4 m/page

* Speed on HP Glossy, Proofing, and Coated/Heavyweight Coated paper
** Speed on HP Plain media

print modes

Fast, normal, best, premium

print quality

Maximum resolution: 2400 x 1200 dpi on HP Premium photo paper (up to 11 x 17 in)
Margins: Top: 3 mm; Bottom: 12 mm; Side: 5 mm
Margins when duplexing: Top: 12 mm; Bottom: 12 mm; Side: 5 mm

media handling

HP Designjet 10ps: 150-sheet input tray; 10-sheet bypass tray; single-sheet rear manual tray; 50-sheet output tray
HP Designjet 20ps/50ps: 150-sheet input tray; 250-sheet input tray; 10-sheet bypass tray; single-sheet rear manual tray; 50-sheet output tray
Minimum paper size: 3 x 5 in
Maximum paper size: 13 x 19 in
Not all media types supported by second tray

color management

6-color printer (C, M, Y, K, Lc, Lm); Internal color sensor; Automatic closed-loop-color calibration; Automatic PANTONE® calibration; PANTONE® certified; ICC color profile support; Press emulations; Apple ColorSync compatible

connectivity

Printer languages: Adobe PostScript 3 via software
Networks supported (10ps and 20ps): Microsoft Windows® 95, 98, NT® 4.0, Me, 2000, Mac OS (EtherTalk)
Interfaces: IEEE-1284 compliant Centronics parallel port and USB port; HP Jdirect 610n network card (optional on 10ps/20ps); TCP/IP; AppleTalk®; Ethernet 10/100Base-TX, 10Base 2 USB recommended for HP Designjet 10ps/20ps
Drivers: Adobe PostScript 3 with HP software RIP; Microsoft Windows 98, Me, NT 4.0, 2000; Mac 8.6 or later (Mac OS X in classic mode); Office drivers for Windows
HP Designjet 10ps/20ps RIP: CMYK emulation (SWOP) and capability to add new emulations (new ICC profiles); RGB emulations; Automatic black replacement; Capability to add new medias; Layout management; Queue management; file types Adobe PostScript 2 & 3, PDF, EPS, TIFF, JPEG, BMP
HP Designjet 50ps RIP: CMYK emulation (SWOP, Euroscale, Toyo, DIC) and capability to add new emulations (new ICC profiles); RGB emulations; Spot color editor; Up to 16 color (CMYK+12) separations; Capability to add new medias; Enhanced layout management; Enhanced queue management (remote access to the queue, virtual printers, job status); Advanced administration tool (users management, security, printer status, e-mail notification); file types Adobe PostScript 3, PDF, EPS, TIFF, TIFF/IT (P1 Contone), DCS 2.0 (from application)
HP Designjet 10ps: standalone solution (license supports 1-3 users)
HP Designjet 20ps: client/server solution
HP Designjet 50ps: client/server solution (pre-press RIP and workflow)

environmental ranges

Operating temperature: 59 to 86° F (15 to 30° C)
Storage temperature: -40 to 158° F (-40 to 70° C)
Operating humidity: 20 to 80% RH non-condensing

power requirements

Source: 100 to 240 volts (± 10%) auto-ranging
Frequency: 50 to 60 Hz 3 amps max

power consumption

Printing: 62 watts maximum

acoustics

Pressure: 62 dB (A) printing

warranty and support services

1-year warranty includes phone support from Monday to Friday at business hours and express exchange
HP Designjet 20ps/50ps: Installation and network configuration service available
HP Supportpacks extend your warranty or even enhance the service level to meet your personal service and support requirements

printer dimensions (w x d x h)

17.41 x 28.5 x 8.78 in (442.23 x 723.92 x 223.16 mm)

printer dimensions with paper tray open (w x d x h)

21.35 x 28.5 x 8.78 in (542.23 x 723.92 x 223.16 mm)

shipping dimensions (w x d x h)

HP Designjet 10ps: 33.8 x 21.8 x 18.2 in (858 x 554 x 462 mm)
HP Designjet 20ps/50ps: 33.8 x 21.8 x 27.64 in (858 x 554 x 702 mm)

printer weight

HP Designjet 10ps: 27.5 lb (12.5 kg)
HP Designjet 20ps/50ps: 27.5 lb (12.5 kg), 2nd sheet feeder: 6.6 lb (3 kg)

shipping weight

HP Designjet 10ps: 37.5 lb (17 kg)
HP Designjet 20ps/50ps: 44.1 lb (20 kg)

product certification

Safety: Compliant with the requirements for the ITE products: CSA Certified for USA & Canada
Electromagnetic compatibility: Compliant with the requirements for Class B ITE products (Class A when connected to LAN cables); USA; FCC rules; Canada: DOC
Environmental compliance: US EPA Energy Star® compliant

minimum system requirements (10ps and 20ps)

PC: HP Designjet 10ps: Intel® II Pentium® processor, 1 GB available hard disk space; CD-ROM drive; Windows 98, Me, NT 4.0 or 2000; 128 MB RAM
HP Designjet 20ps: Intel II Pentium processor, 1 GB available hard disk space; CD-ROM drive; Windows NT 4.0 server; 128 MB RAM

ordering information

number	description
C7790A	HP Designjet 10ps, personal solution
C7790B	HP Designjet 20ps, workgroup solution
C7790C	HP Designjet 50ps, pre-press industry solution (available May 2002)

HP Designjet 50ps requires a dedicated Windows NT or 2000 server.

service and support

H7708A/E	HP Supportpack, 3-year, express exchange
H7620A/E	HP Supportpack, installation and network configuration, (20ps/50ps)

This should be purchased together with the HP Designjet printer, at latest 180 days after purchase of the printer. For more support services please visit: www.designjet.hp.com

supplies & accessories

C7794A	2nd paper tray (HP Designjet 10ps)
C8219A	Automatic duplex unit
Q1249A	Server-based software RIP (HP Designjet 10ps/Macintosh USB)
Q1249B	Server-based software RIP (HP Designjet 10ps/PC USB)
Q1249C	Server-based software RIP (HP Designjet 10ps/PC parallel)
Q1250A	Pre-press software RIP (HP Designjet 10ps/20ps)

hp ink cartridges

C4913A	Yellow,	69 ml,	HP 82
C5016A	Black,	69 ml,	HP 84
C4837A	Magenta,	28 ml,	HP 11
C4836A	Cyan,	28 ml,	HP 11
C5018A	Light Magenta,	69 ml,	HP 84
C5017A	Light Cyan,	69 ml,	HP 84

hp printheads

C4813A	Yellow	HP 11
C5019A	Black	HP 84
C4812A	Magenta	HP 11
C4811A	Cyan	HP 11
C5021A	Light Magenta	HP 84
C5020A	Light Cyan	HP 84

hp proofing paper

C7886A	Gloss, 50 sheets, B+ (13 x 19 in)
C7884A	Semi-gloss, 50 sheets, B+ (13 x 19 in)
C7885A	Matte, 100 sheets, B+ (13 x 19 in)

For additional compatible HP printing materials, please visit: www.designjet.hp.com/media

cables

C2392A	USB cable 5 m
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network

J4169A	HP Jdirect 610n EIO internal print server, Ethernet/Fast Ethernet (10/100Base-TX)
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Macintosh: HP Designjet 10ps: Power Apple Macintosh System 8.6 or later (Mac OS X in classic mode); 1 GB available hard disk space; CD-ROM drive; 128 MB RAM
HP Designjet 20ps: G3 Apple Macintosh System 8.6 or later (Mac OS X in classic mode); 1 GB available hard disk space; CD-ROM drive; 128 MB RAM

minimum system requirements (50ps)

Server: dedicated server with Intel II Pentium processor, 350 MHz, 4 GB available hard disk space, CD-ROM drive; with Microsoft Windows NT 4.0 Server, Service Pack 6a, with 384 MB RAM or Microsoft Windows 2000 Server, Service Pack 2 with 512 MB RAM; Microsoft Internet Explorer 5.0
Client: Macintosh: OS 8.5, Power MAC processor, 64 MB RAM, Microsoft Internet Explorer 5.0 Windows: Windows NT 4.0 or Windows 98, Pentium II, 300 MHz, 64 MB RAM

ideal system requirements (10ps and 20ps)

PC: HP Designjet 10ps: Intel III Pentium processor, 2 GB available hard disk space; CD-ROM drive; Windows 98, Me, NT 4.0 or 2000; 256 MB RAM
HP Designjet 20ps: Intel III Pentium processor, 2 GB available hard disk space; CD-ROM drive; Windows 2000 server; 256 MB RAM
Macintosh: HP Designjet 10ps/20ps: G4 System 9 or later (Mac OS X in classic mode); 2 GB available hard disk space; CD-ROM drive; 256 MB RAM

ideal system requirements (50ps)

Server: dedicated server with Intel III Pentium processor, 700MHz, 9 GB available hard disk space, CD-ROM drive, Windows 2000 Server, 512 MB RAM for PC, Microsoft Internet Explorer 5.0
Client: Macintosh: OS 9.x or later (OS X in classic mode), G4, 128 MB RAM
Windows: Windows 2000, Pentium III, 500 MHz, 128 MB RAM

what's in the box

HP ink system; 13" x 19" tray; 2nd tray (20ps/50ps only); USB 5 m cable (10ps/20ps only); power cord; Software RIP CD; HP ink supplies; HP printing material; user documentation CD

HP PCs use genuine Windows Operating Systems

www.microsoft.com/piracy/howtotell

For more information

Product: Visit www.hp.com/go/designjet

Purchase: HP business solutions, products and supplies can be purchased at your local HP partner (www.hp.com/go/locator), or bought directly from HP at www.buy.hp.com or 800-613-2222.

Finance: HP finance plans provide all the benefits of new technology without the risk or cost of ownership. For details, call toll-free 888-999-HPTF (4783).

Accessibility: HP is committed to providing products and services that are accessible to people with disabilities. For more information, please visit www.hp.com/accessibility or call 888-259-5707.

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