HP Designjet 510 Printer series

HP's most affordable standalone printer for small studios that print large-format technical documents in-house.

for CAD

24/42 inches

2400 x1200 dpi

416 MB memory[2]

55 sec /A1

HP-GL/2 in-print processing

LAN optional

4 colours

The most affordable HP large-format printer

Let your dreams take flight while keeping costs low. The newly improved HP Designjet 510 Printer series is based on a proven platform[1]—making it affordable for small businesses and studios to produce high-quality technical CAD drawings and presentations in-house without the additional hassle, cost, and time taken.

- HP's most affordable large-format printer offers high quality and reliability for AEC, MCAD and GIS users.

- A choice of lower cost 28-ml and 69-ml HP colour ink cartridges offer more affordable options to suit business needs.

- Separate ink cartridges and printheads keep running costs down with lower price and efficient servicing routines.

- Intuitive control panel for simplified user interaction, compatibility with the latest applications and operating systems.

Greater speed and performance

Accelerate productivity and get more done in shorter time with greater user convenience, and up to 30% faster print speeds and 4x quicker processing performance than the previous model[3].

- Delivers prints speeds of up to 55 seconds per page for A1/D-sized documents.

- Conveniently produce CAD documents and make changes at a fraction of the usual time with enhanced HP-GL/2.

- HP Instant Printing allows users to create fast and east printouts of HP-GL/2 and PLT files at the simple click of a button.

- Optional network capability allows multiple users to connect with for full utilisation of printing resources.

Superior resolution and reliability

Create illustrations or presentations with impactful images that will impress the clients. The HP Designjet 510 Printer series with HP-GL/2 in-printer processing technology consistently produces high-quality technical CAD drawings with sharp detail and superior resolution on a wide variety of media.

- Produce high resolution technical CAD prints at 2400 x 1200 optimised dpi.

- Print professional looking output with lines as thin as 0.04 mm, at an accuracy of 0.2% of the specified page length.

- Improved memory of 160 MB[2] from 16 MB in older models[1] allows the HP Designjet 510 Printer series to process complex files with significantly lesser delays.

- Based on the highly reliable and best-selling HP Designjet 500 Printer series.

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[1] Previously HP Designjet 500 Plus Printer series.

[2] Standard memory 160 MB, expandable to 416 MB with Designjet 256 MB memory upgrade.

[3] Compared to the HP Designjet 500 Printer series.

HP Designjet 510 Printer series

Technical specifications

Printing

Print speed[1]	**Line drawings:** Fast: 55 sec/page on A1/D, 38 A1/D prints per hour on plain media (increased speed on) **Colour images:** Fast: 3.5 min/page on A1/D on coated media Normal: 9.5 min/page on A1/D on glossy media
Print resolution	Up to 2400 x 1200 optimised dpi
Recommended volume	Up to 50 A1/D per week
Margins (top x bottom x left x right)	Roll: 5 x 5 x 5 x 5 mm (0.2 x 0.2 x 0.2 x 0.2 inches) Sheet: 17 x 17 x 5 x 5 mm (0.7 x 0.7 x 0.2 x 0.2 inches)
Technology	HP Thermal Inkjet
Ink types	Dye-based (colour), pigment-based (black)
Ink colours	Cyan, magenta, yellow, black
Ink drop	4 pl (colour), 18 pl (black)
Ink cartridge size	69 ml (CMYK) or 28 ml (CMY)
Print heads	4 (1 each cyan, magenta, yellow, black)
Line accuracy	+/– 0.2%[2]
Minimum line width	Colour: 0.07 mm (0.0027 inches); black: 0.09 mm (0.0035 inches)

Memory

	160 MB standard memory, expandable to 416 MB with HP Designjet 256 MB Memory Upgrade

Media

Handling	Single sheet feed, roll feed, automatic cutter (cuts all media except canvas)
Types	Bond and coated, technical, film, photographic, proofing, self-adhesive, banner and sign, canvas
Size	**24-inch models:** 140 x 140 to 610 x 1897 mm (5.5 x 5.5 to 24 x 74.7 inches) sheets, 458 to 610 mm (18 to 24 inches) rolls **42-inch models:** 140 x 140 to 1067 x 1897 mm (5.5 x 5.5 to 42 x 74.7 inches) sheets, 458 to 1067 mm (18 to 42 inches) rolls
Maximum roll diameter	100 mm (3.9 inches)
Maximum roll length	Unlimited (depends on media thickness)

Connectivity

Interfaces (standard)	1 USB 2.0 compliant port, 1 IEEE-1284-compliant parallel port, 1 EIO Jetdirect accessory slot
Interfaces (optional)	Compatible HP Jetdirect EIO print servers
Print languages	HP-GL/2, HP-RTL, HP PCL 3 GUI

Drivers

	HP-GL/2, HP-RTL Windows® drivers; Optimised Windows driver for AutoCAD 2000 and higher; HP PCL 3 GUI driver for Mac OS X

Software solutions

	HP Instant Printing Utility: Easily and quickly print your HP-GL/2 and PLT files with the simple click of a button. More information: www.hp.com/go/hpinstantprintingutility

Recommended system

Windows	Windows Vista®, XP®, Server 2003, 2000: Pentium® 4 (1 GHz or higher), 1 GB RAM, 2 GB available hard disk space
Macintosh	Mac OS X (10.3, 10.4, 10.5): PowerPC G4, G5, or Intel® Core™ Processor, 1 GB RAM, 2 GB available hard disk space

Dimensions (w x d x h)

Printer	**24-inch models:** 1253 x 470 x 349 mm (49 x 19 x 14 inches) **42-inch models (with stand):** 1690 x 674 x 1100 mm (67 x 27 x 43 inches)
Shipping	**24-inch models:** 1540 x 645 x 737 mm (60.6 x 25.4 x 29 inches) **42-inch models (with stand):** 1975 x 645 x 978 mm (77.8 x 25.4 x 38.5 inches)

Weight

Printer	**24-inch models:** 38.7 kg (85.3 lb) **42-inch models (with stand):** 45.2 kg (99.6 lb)
Shipping	**24-inch models:** 61 kg (134 lb) **42-inch models (with stand):** 105 kg (232 lb)

What's in the box

	HP Designjet 510 Printer, printer stand and media bin (42-inch models only), spindle, printheads (4 x 1 colour), introductory ink cartridges (x4), quick reference guide, setup poster, doc and drivers CD, customer service guide, power cord

Environmental ranges

Operating temperature	5 to 40° C (41 to 104° F)
Recommended operating temperature	15 to 35° C (59 to 95° F)
Storage temperature	–40 to 60° C (–40 to 140° F)
Recommended operating humidity	20 to 80% RH
Storage humidity	0 to 95% RH

Acoustic

Sound pressure, active	52 dB(A)
Sound pressure, standby	29 dB(A)
Sound power, active	6.5 B(A)
Sound power, standby	4.4 B(A)
Power consumption Maximum	150 watts
Power requirements	Line voltage: 100 to 240 V ac (+/–10%) auto-ranging, 50 to 60 Hz, 3 A maximum

Certification

Safety	Compliant with the requirements for ITE products: EU Low Voltage Directive, US and Canada CSA certified, Mexico NOM-1-NYCE, Argentina IRAM China CCIB and CCEE, Singapore PSB, Russia GOST, Poland PCBC
Electromagnetic	Compliant with the requirements for class B ITE products: EU (EMC directive), US (FCC rules), Canada (DoC), Australia (ACA), New Zealand (MoC), China (CCIB), class A for Korea (MIC), Taiwan (BSMI)
Environmental	RoHS, WEEE
ENERGY STAR® qualified models	see: http://www.hp.com/go/energystar

Warranty

	One-year, next business day, on-site warranty

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[1] Mechanical printing time. Measured on a 42-inch model.

[2] ±0.010 mm at 23° C (73° F), 50–60% relative humidity, on E/A0 printing material in Best mode with HP Premium Instant-dry Photo Gloss.

Ordering information

Product
CH336A	HP Designjet 510 24-inch Printer
CH337A	HP Designjet 510 42-inch Printer

Accessories
CH654A	HP Designjet 256 MB Memory Upgrade DIMM
Q1246B	HP Designjet 24-inch Stand & Bin
C2389A	HP 24-inch Spindle
C2390A	HP 42-inch Spindle
Q6643D	EFI Designer Edition 5.1 RIP for HP (XL) Intl
Q6644D	EFI Designer Edition 5.1 RIP for HP (XL) Japan

Jetdirect cards
J7934G	HP Jetdirect 620n Fast Ethernet
J7997G	HP Jetdirect 630n IPv6 Gigabit Ethernet
J7961G	HP Jetdirect 635n IPv6/IPsec Gigabit
J7951G	HP Jetdirect ew2400 802.11g Wireless
J7988G	HP Jetdirect en1700 IPv6, Fast Ethernet

Original HP supplies
C4911A	HP 82 Cyan Ink Cartridge (69 ml)
C4912A	HP 82 Magenta Ink Cartridge (69 ml)
C4913A	HP 82 Yellow Ink Cartridge (69 ml)
CH565A	HP 82 Black Ink Cartridge (69 ml)
CH566A	HP 82 Cyan Ink Cartridge (28 ml)
CH567A	HP 82 Magenta Ink Cartridge (28 ml)
CH568A	HP 82 Yellow Ink Cartridge (28 ml)
C4810A	HP 11 Black Printhead
C4811A	HP 11 Cyan Printhead
C4812A	HP 11 Magenta Printhead
C4813A	HP 11 Yellow Printhead

Care Pack Service & Support
UK900E	HP 3-year, Next Business Day, Onsite Hardware Support
UK902E	HP 5-year, Next Business Day, Onsite Hardware Support
UK904E	HP 3-year, 4-hour, 9 x 5 Same Business Day, Onsite Hardware Support
UK906E	HP 5-year, 4-hour, 9 x 5 Same Business Day, Onsite Hardware Support
H7604E	HP Standard Installation Service

Original HP media
Q1396A	HP Universal Bond Paper 80 g/m²—610 mm x 45.7 m /24 inches x 150 ft
C6035A	HP Bright White Inkjet Paper 90 g/m²—610 mm x 45.7 m /24 inches x 150 ft
C6029C	HP Heavyweight Coated Paper 131 g/m² —610 mm x 30.5 m/24 inches x 100 ft
Q1412A	HP Universal Heavyweight Coated Paper 120 g/m² —610 mm x 30.5 m /24 inches x 100 ft
C6019B	HP Coated Paper 90 g/m²—610 mm x 45.7 m /24 inches x 150 ft
Q1404A	HP Universal Coated Paper 95 g/m²—610 mm x 45.7 m /24 inches x 150 ft
C3876A	HP Clear Film 174 g/m²—610 mm x 22.9 m/24 inches x 75 ft
51642A	HP Matte Film 160 g/m²—610 mm x 38.1 m/24 inches x 125 ft
Q1426A	HP Universal High-gloss Photo Paper 190 g/m² —610 mm x 30.5 m/24 inches x 100 ft
Q1421A	HP Universal Semi-gloss Photo Paper 190 g/m² —914 mm x 30.5 m/36 inches x 100 ft