

HP Designjet 510 Printer series



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

Conveniently print technical drawings

Assume greater control over large-format CAD printing when you bring it in-house.

- Conveniently print CAD documents with print speeds up to 55 seconds for D/A1-sized documents.
- HP Instant Printing—quickly print your HP-GL/2 and PLT files with the simple click of a button.
- Easily share this large-format Designjet among multiple users with optional network capability.

Reliable performance, high line quality

Impress clients with a four-color, high resolution (2400 x 1200 optimized dpi) printing system that delivers fine line quality and high accuracy. It's compatible with the latest applications and operating systems, offers HP-GL/2 support, and comes with 160 MB of memory.

- See high-quality output for technical CAD drawings—sharp detail, accurate lines, superior resolution—with HP-GL/2 in-printer processing technology.
- Process complex files with great ease thanks to 160 MB of memory.
- Based on the very reliable and best-selling HP Designjet 500 Printer series.

In-house, at the right price

HP makes it easy and affordable for small studios to produce high-quality technical CAD prints in-house.

Save the expense, hassle, and time it takes to outsource large-format prints and start doing it yourself.

- Get high quality, high reliability at an affordable price.
- A choice of 28-ml and 69-ml HP color ink cartridges enables cost-effective printing matched to your needs.
- Separate ink cartridges and printheads at a low price and efficient servicing routines without any need to replace maintenance tanks keep running costs down.



for
CAD

24/42
inches

2400x
1200dpi

160MB
Memory

55sec./D-size

HP-GL/2
in-printer
processing

LAN
optional

4colors

WHAT DO YOU HAVE TO SAY?



Technical specifications

Printing	
Print speed ¹⁾	Line drawings: Fast: 55 sec/page on D/A1, 38 D/A1 prints per hour on plain media (increased speed on) Color images: Fast: 3.5 min/page on D/A1 on coated media Normal: 9.5 min/page on D/A1 on glossy media
Print resolution	Up to 2400 x 1200 optimized dpi
Recommended volume	Up to 50 D/A1 per week
Margins (top x bottom x left x right)	Roll: 0.2 x 0.2 x 0.2 x 0.2 in (5 x 5 x 5 x 5 mm) Sheet: 0.7 x 0.7 x 0.2 x 0.2 in (17 x 17 x 5 x 5 mm)
Technology	HP Thermal Inkjet
Ink types	Dye-based (color), pigment-based (black)
Ink colors	Cyan, magenta, yellow, black
Ink drop	4 pl (color), 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	Color: 0.0027 in (0.07 mm); black: 0.0035 in (0.09 mm)
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-in models: 5.5 x 5.5 to 24 x 74.7 in (140 x 140 to 610 x 1897 mm) sheets, 18 to 24 in (458 to 610 mm) rolls 42-in models: 5.5 x 5.5 to 42 x 74.7 in (140 x 140 to 1067 x 1897 mm) sheets, 18 to 42 in (458 to 1067 mm) rolls
Max. roll diameter	3.9 in (100 mm)
Max. 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; Optimized 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
Dimensions (w x d x h)	
Printer	24-in models: 49 x 19 x 14 in (1253 x 470 x 349 mm) 42-in models (with stand): 67 x 27 x 43 in (1690 x 674 x 1100 mm)
Shipping	24-in models: 60.6 x 25.4 x 29 in (1540 x 645 x 737 mm) 42-in models (with stand): 77.8 x 25.4 x 38.5 in (1975 x 645 x 978 mm)
Weight	
Printer	24-in models: 85.3 lb (38.7 kg) 42-in models (with stand): 99.6 lb (45.2 kg)
Shipping	24-in models: 134 lb (61 kg) 42-in models (with stand): 232 lb (105 kg)
What's in the box	
	HP Designjet 510 Printer, printer stand and media bin (42-in models only), spindle, printheads (4 x 1 color), introductory ink cartridges (x4), quick reference guide, setup poster, doc and drivers CD, customer service guide, power cord

¹⁾ Mechanical printing time. Measured on a 42-in 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.

Environmental ranges	
Operating temperature	41 to 104° F (5 to 40° C)
Recommended operating temperature	59 to 95° F (15 to 35° C)
Storage temperature	-40 to 140° F (-40 to 60° C)
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 PCBB
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	
Warranty Support call 1-800-HP INVENT	One-year, next business day, on-site warranty

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Ordering information

Product

CH336A HP Designjet 510 24-in Printer
CH337A HP Designjet 510 42-in Printer

Accessories

CH654A HP Designjet 256 MB Memory Upgrade DIMM
Q1246B HP Designjet 24-in 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

Original HP media

Q1396A HP Universal Bond Paper 80 g/m² - 610 mm x 45.7 m/24 in x 150 ft
C6035A HP Bright White Inkjet Paper 90 g/m² - 610 mm x 45.7 m/24 in x 150 ft
C6029C HP Heavyweight Coated Paper 131 g/m² - 610 mm x 30.5 m/24 in x 100 ft
Q1412A HP Universal Heavyweight Coated Paper 120 g/m² - 610 mm x 30.5 m/24 in x 100 ft
C6019B HP Coated Paper 90 g/m² - 610 mm x 45.7 m/24 in x 150 ft
Q1404A HP Universal Coated Paper 95 g/m² - 610 mm x 45.7 m/24 in x 150 ft
C3876A HP Clear Film 174 g/m² - 610 mm x 22.9 m/24 in x 75 ft
51642A HP Matte Film 160 g/m² - 610 mm x 38.1 m/24 in x 125 ft
Q1426A HP Universal High-gloss Photo Paper 190 g/m² - 610 mm x 30.5 m/24 in x 100 ft
Q1421A HP Universal Semi-gloss Photo Paper 190 g/m² - 914 mm x 30.5 m/36 in x 100 ft
Q7971A HP Professional Semi-gloss Contract Proofing Paper 235 g/m² - 610 mm x 30.5 m/24 in x 100 ft
Q1968A HP Matte Proofing Paper 146 g/m² - 610 mm x 30.5 m/24 in x 100 ft

HP Care Pack Services

H4518E HP Installation Service with Network Setup
UK900E HP 3-Year Next Business Day Onsite Service
UK904E HP 3-Year Same Day Onsite Service (9x5)
UK908E HP 3-Year Same Day Onsite Service (13x5)

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

For more information, visit our website at
www.hp.designjet510.com or 1-888-649-5624



WHAT DO YOU HAVE TO SAY?

