

HP Designjet T790 ePrinter series



An easy plug-and-play large-format ePrinter.



So easy and intuitive, you'll love using it.

- Print to any HP Designjet printer without installing any drivers thanks to free HP ePrint & Share¹.
- Save time with accurate page previews, and discover the power of touch through its colour touchscreen that enables easy printing.
- Secure your investment: this HP ePrinter is Web-connected and easy to update. Software updates occur automatically, every six months.
- Create a print-ready PDF⁴ file at the same time you print with HP ePrint & Share¹.

Print high-quality results at fast speeds.

- Achieve high-quality results: the 6-ink system has matte and photo black, and grey to produce true neutral greys and a wide range of vivid colours on plain and glossy media.
- Produce fine detailed lines with 0.02 mm minimum line width², and highly accurate drawings with innovative printhead technology and Original HP inks.
- Get the job done quickly without sacrificing quality: print up to 2 A1 prints per minute in Economode.
- Print complex files as easily as simple ones with 8 GB virtual memory³.

Print from virtually anywhere¹.

- Use your Apple® or Android™ smartphone or tablet to print from virtually anywhere¹.
- Walk up to your printer's touchscreen, access files on the Web, and print them with HP ePrint & Share¹.
- Automatically save copies of your work to the cloud when you print using HP Designjet ePrint & Share¹.
- Email projects to your HP Designjet T790 ePrinter and print, thanks to its web-connectivity features¹.

¹ Requires an HP Designjet ePrint & Share account, Internet connection to the printer and connected Internet-capable device. When using the HP Designjet ePrint & Share mobile app, a compatible Apple® iOS or Android™ device and Internet connection are required. Data or connection charges may apply. Print times may vary. For more information, visit hp.com/go/eprintandshare.

² Using HP-GL/2.

³ Based on 640 MB RAM.

⁴ PDF files only available with PostScript accessory (optional accessory to be purchased separately) or buying PS versions.

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Technical specifications

Print	
Line Drawings	CR647A: 32 sec/page, 93 A1 prints per hour CR648A: 32 sec/page, 93 A1 prints per hour CR649A: 28 sec/page, 103 A1 prints per hour CR650A: 28 sec/page, 103 A1 prints per hour
Colour images	CR647A: 37 m²/hr on coated media; 6 m²/hr on glossy media CR648A: 37 m²/hr on coated media; 6 m²/hr on glossy media CR649A: 41 m²/hr on coated media; 6.7 m²/hr on glossy media CR650A: 41 m²/hr on coated media; 6.7 m²/hr on glossy media
Print resolution	Up to 2400 x 1200 optimised dpi from 1200 x 1200 input dpi and Optimisation For Photo Paper selected
Margins (top x bottom x left x right)	Roll: 5 x 5 x 5 x 5 mm Sheet: 5 x 17 x 5 x 5 mm
Technology	HP Thermal Inkjet
Ink types	Dye-based (C, G, M, pK, Y); pigment-based (mK)
Ink colours	6 (cyan, grey, magenta, matte black, photo black, yellow)
Ink drop	6 pl (C, G, M, pK); 9 pl (mK, Y)
Print cartridge volume delivered	HP 72 Ink Cartridge: cyan, grey, magenta, matte black, photo black, yellow (130 ml); cyan, grey, magenta, photo black, yellow (69 ml)
Print head nozzles	1056
Print heads	3 (matte black and yellow, magenta and cyan, photo black and grey)
Line accuracy	+/- 0.1%
Minimum line width	0.02 mm (HP-GL/2 addressable)
Guaranteed minimum line width	0.06 mm (ISO/IEC 13660:2001(E))
Maximum print length	91 m
Maximum print weight	11.9 kg
Maximum optical density	2.15 maximum black optical density (6 L*min)
Media	
Handling	Sheet feed; roll feed; automatic cutter
Types	Bond and coated paper (bond, coated, heavyweight coated, super heavyweight plus matte, coloured); technical paper (natural tracing, translucent bond, vellum); film (clear, matte, polyester); photographic paper (satin, gloss, semi-gloss, matte, high-gloss); backlit, self-adhesive (two-view cling, indoor paper, polypropylene, vinyl)
Weight	60 to 328 g/m²
Size	CR647A: 210 x 279 to 610 x 1676 mm; CR648A: 210 x 279 to 610 x 1676 mm; CR649A: 210 x 279 to 1118 x 1676 mm; CR650A: 210 x 279 to 1118 x 1676 mm;
Thickness	Up to 0.8 mm
Memory	
Standard	8 GB (virtual)
Connectivity	
Interfaces (standard)	Fast Ethernet (100Base-T); Hi-Speed USB 2.0; EIO Jetdirect accessory slot
Interfaces (optional)	Compatible HP Jetdirect print servers
Print languages (standard)	CR647A: HP-GL/2, HP-RTL, TIFF, JPEG, CALS G4, HP PCL 3 GUI; CR648A: Adobe® PostScript® 3, Adobe® PDF 1.7, HP-GL/2, HP-RTL, TIFF, JPEG, CALS G4, HP PCL 3 GUI; CR649A: HP-GL/2, HP-RTL, TIFF, JPEG, CALS G4, HP PCL 3 GUI; CR650A: Adobe® PostScript® 3, Adobe® PDF 1.7, HP-GL/2, HP-RTL, TIFF, JPEG, CALS G4, HP PCL 3 GUI;
Print languages (optional)	Adobe® PostScript® 3; Adobe® PDF 1.7
Drivers included	HP-GL/2, HP-RTL drivers for Windows® (optimised for AutoCAD 2000 and higher); HP PCL 3 GUI driver for Mac OS X
Operating systems compatibility	
	Microsoft® Windows® 7 Ultimate/Professional/Home Premium, Windows Vista® Ultimate/Business/Home Premium; Windows® XP (32-bit, 64-bit) Professional/Home, Server 2008 (32-bit, 64-bit), Server 2003 (32-bit, 64-bit); Mac OS X v10.5, v10.6; Citrix® XenApp; Citrix® XenServer; Linux (see http://www.hpipj.net)
Recommended system requirements	
Mac	Mac OS X v10.5: PowerPC G3 or Intel® Core processor; 256 MB RAM; 1 GB available hard disk space; Mac OS X v10.6: Mac computer with Intel® Core processor; 1 GB RAM; 2 GB available hard disk space
Windows	Microsoft® Windows® 7: 32-bit (x86) or 64-bit (x64) processor (1 GHz); 1 GB RAM (32-bit) or 2 GB RAM (64-bit); 2 GB available hard disk space; Windows Vista® Ultimate/Business/Home Premium: 32-bit (x86) or 64-bit (x64) processor (1 GHz); 1 GB RAM; 2 GB available hard disk space; Windows® XP Professional/Home (SP2 or higher): Intel® Pentium® family or AMD K6™/Athlon™/Duron™ (1 GHz); 512 MB RAM; 2 GB available hard disk space
Environmental ranges	
Operating temperature	5 to 40°C
Storage temperature	-25 to 55°C
Operating humidity	20 to 80% RH
Storage humidity	0 to 95% RH
Acoustic	
Sound Pressure	43 dB(A); 29 dB(A) standby
Sound Power	6.1 B(A); 4.7 B(A) standby

What's in the box	
CR647A	HP Designjet T790 ePrinter; printheads; introductory ink cartridges; spindle; quick reference guide; setup poster; startup software; power cord
CR648A	HP Designjet T790 PostScript ePrinter; printheads; introductory ink cartridges; spindle; quick reference guide; setup poster; startup software; power cord
CR649A	HP Designjet T790 ePrinter; printheads; introductory ink cartridges; printer stand; spindle; quick reference guide; setup poster; startup software; power cord
CR650A	HP Designjet T790 PostScript ePrinter; printheads; introductory ink cartridges; printer stand; spindle; quick reference guide; setup poster; startup software; power cord
Dimensions (w x d x h)	
Printer	CR647A: 1262 x 702 x 1050 mm; CR648A: 1262 x 702 x 1050 mm; CR649A: 1770 x 701 x 1050 mm; CR650A: 1770 x 701 x 1050 mm;
Packaged	CR647A: 1440 x 766 x 770 mm; CR648A: 1440 x 766 x 770 mm; CR649A: 1930 x 766 x 770 mm; CR650A: 1930 x 766 x 770 mm;
Weight	
Printer	CR647A: 60 kg; CR648A: 60 kg; CR649A: 81.6 kg; CR650A: 81.6 kg;
Packaged	CR647A: 77 kg; CR648A: 77 kg; CR649A: 103 kg; CR650A: 103 kg;
Power consumption	
Maximum	< 120 watts (active), < 27 watts (standby), < 7 watts / < 25 watts with embedded Digital Front End (sleep), 0.1 watts (off)
Power requirements	Input voltage (auto ranging) 100 to 240 VAC (+/- 10%), 50/60 Hz (+/- 3 Hz), 2 A max
Certification	
Safety	EU (LVD and EN 60950-1 compliant); Russia (GOST)
Electromagnetic	Compliant with Class B requirements EU (EMC Directive)
Environmental	ENERGY STAR®; WEEE; EU RoHS; REACH; EuP; FEMP
ENERGY STAR	Yes
Warranty	
	One-year limited hardware warranty. Warranty and support options vary by product, country and local legal requirements.

Ordering information

Product	
CR647A	HP Designjet T790 610mm ePrinter
CR648A	HP Designjet T790 610mm PostScript ePrinter
CR649A	HP Designjet T790 1118mm ePrinter
CR650A	HP Designjet T790 1118mm PostScript ePrinter
Accessories	
CN500B	HP Designjet PostScript Upgrade Kit
CQ783A	HP Designjet T7xx 24-in Spindle
Q6709A	HP Designjet 1118mm Roll Feed Spindle
Q6663A	HP Designjet T/Z 24-in Stand
Q654B	HP Designjet HD Scanner
Ink supplies	
C9380A	HP 72 Gray and Photo Black Printhead
C9383A	HP 72 Magenta and Cyan Printhead
C9384A	HP 72 Matte Black and Yellow Printhead
C9397A	HP 72 69-ml Photo Black Ink Cartridge
C9398A	HP 72 69-ml Cyan Ink Cartridge
C9399A	HP 72 69-ml Magenta Ink Cartridge
C9400A	HP 72 69-ml Yellow Ink Cartridge
C9401A	HP 72 69-ml Grey Ink Cartridge
C9403A	HP 72 130-ml Matte Black Ink Cartridge
C9370A	HP 72 130-ml Photo Black Ink Cartridge
C9371A	HP 72 130-ml Cyan Ink Cartridge
C9372A	HP 72 130-ml Magenta Ink Cartridge
C9373A	HP 72 130-ml Yellow Ink Cartridge
C9374A	HP 72 130-ml Grey Ink Cartridge

Service & support	
HP596E	HP 3 year Next Business Day Designjet T790-24inch Hardware Support
HP601E	HP 4 year Next Business Day Designjet T790-24inch Hardware Support
HP602E	HP 5 year Next Business Day Designjet T790-24inch Hardware Support
HP598E	HP 3 year 4 hour 13x5 Designjet T790-24inch Hardware Support
HP993PE	HP 1 year Post Warranty Next Business Day Designjet T790-24inch Hardware Support
HP994PE	HP 2 year Post Warranty Next Business Day Designjet T790-24inch Hardware Support
HP997PE	HP 1 year Post Warranty 4 hour 13x5 Designjet T790-24inch Hardware Support
HP998E	HP 3 year Next Business Day Designjet T790-44inch Hardware Support
HQ009E	HP 4 year Next Business Day Designjet T790-44inch Hardware Support
HQ003E	HP 5 year Next Business Day Designjet T790-44inch Hardware Support
HP999E	HP 3 year 4 hour 13x5 Designjet T790-44inch Hardware Support
HQ015PE	HP 1 year Post Warranty Next Business Day Designjet T790-44inch Hardware Support
HQ013PE	HP 2 year Post Warranty Next Business Day Designjet T790-44inch Hardware Support
HQ016PE	HP 1 year Post Warranty 4 hour 13x5 Designjet T790-44inch Hardware Support

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For more information, please visit <http://www.hp.com/go/designjetT790>

For more HP Large Format Media substrates and sizes please visit us online at: <http://www.hp.com/go/designjet/supplies>

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