

# HP DESIGNJET T790

ePRINTER SERIES

HIT PRINT  
INTELLIGENTLY



## Easy plug-and-play large-format HP ePrinter



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

You'll love using this ePrinter. Its color touchscreen is intuitive. PDF creation is easy with optional AutoCAD plug-in. Print preview eliminates error and waste. And because the printer is Web-connected, it's easier than ever to update.

- Print to any HP Designjet printer without installing any drivers thanks to HP ePrint & Share.<sup>(1)</sup>
- Discover the power of touch—this ePrinter's color touchscreen enables intuitive operation and page previews.
- Web-connected and easy to update. Software updates occur automatically, every six months.
- Create a print-ready PDF<sup>(2)</sup> at the same time you print with HP ePrint & Share.<sup>(1)</sup>



### Attain high-quality, high-speed results

Print high-quality results at fast speeds. Designed together as a system, this ePrinter, Original HP inks, and HP printing materials deliver rich, dark blacks; true neutral grays; vibrant colors; and fine, detailed lines for highly accurate drawings.

- Achieve high-quality results with rich, dark blacks, true neutral grays, and vibrant solid colors.
- Produce fine, detailed lines and highly accurate drawings with innovative technology and Original HP inks.
- Get the job done quickly without sacrificing quality. Print up to 2 A1/D-sized prints per minute in Economode.
- Print complex files as easily as simple ones with this ePrinter's 8 GB virtual memory.<sup>(3)</sup>



### Access and print files where the job takes you

Ultra mobile, this printer enhances collaboration. Print directly from your computer or USB drive without installing drivers. Web print directly from the color touchscreen. Share, access, and print files via the Web using HP ePrint & Share.<sup>(1)</sup>

- Print TIFF, JPEG, and PDF<sup>(4)</sup> files directly from your USB thumb drive; no computer required.
- Print and share files directly from the color touchscreen—with HP ePrint & Share.<sup>(1)</sup>
- Select and print projects using the touchscreen—simply access those files via HP ePrint & Share.<sup>(1)</sup>
- Print remotely<sup>(5)</sup> to any large-format HP Web-connected Designjet from your computer or mobile device.

<sup>(1)</sup> HP ePrint & Share is a free Web-printing solution that lets you automatically manage content online. It requires an Internet connection.

<sup>(2)</sup> Requires AutoCAD plug-in.

<sup>(3)</sup> Based on 640 MB RAM.

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

<sup>(5)</sup> Remote Printing will be available by end of 2011.



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PEFC/29-31-198

# HP DESIGNJET T790 ePRINTER SERIES

## TECHNICAL SPECIFICATIONS

| PRINT                                 |  |
|---------------------------------------|--|
| Line drawings <sup>1</sup>            | 28 sec/page on A1/D, 103 A1/D prints per hour  |
| Color images <sup>2</sup>             | Fast: 41 m <sup>2</sup> /hr (445 f <sup>2</sup> /hr) on coated media<br>Best: 3.1 m <sup>2</sup> /hr (33.3 f <sup>2</sup> /hr) on glossy media |
| Print resolution                      | Up to 2400 x 1200 optimized dpi from 1200 x 1200 input dpi and Optimization For Photo Paper selected   |
| Margins (top x bottom x left x right) | Roll: 5 x 5 x 5 mm (0.2 x 0.2 x 0.2 in)<br>Sheet: 5 x 17 x 5 x 5 mm (0.2 x 0.67 x 0.2 x 0.2 in)  |
| Technology                            | HP Thermal Inkjet  |
| Ink cartridge colors                  | Cyan (C), gray (G), magenta (M), matte black (mK), photo black (pK), yellow (Y)  |
| Ink types                             | Dye-based (C, G, M, pK, Y); pigment-based (mK)   |
| Ink drop                              | 6 pl (C, G, M, pK); 9 pl (mK, Y)   |
| Ink cartridge size                    | 130 ml (C, G, M, mK, pK, Y)<br>69 ml (C, G, M, pK, Y)  |
| Printheads                            | 3 (G & pK, mK & Y, M & C)  |
| Line accuracy                         | +/- 0.1% <sup>3</sup>  |
| Minimum line width                    | 0.02 mm (0.0008 in) (HP-GL/2 addressable)  |
| Guaranteed minimum line width         | 0.06 mm (0.0024 in) (ISO/IEC 13660:2001(E)) <sup>4</sup>   |
| Maximum print length                  | 91 m (300 ft) [OS and application dependent]   |

| MEDIA     |  |
|-----------|--|
| Handling  | Sheet feed, roll feed, automatic cutter  |
| Types     | Bond and coated paper (bond, coated, heavyweight coated, super heavyweight plus matte); technical paper (natural tracing, translucent bond, vellum); film (clear, matte); photographic paper (satin, gloss, semi-gloss, matte, high-gloss); self-adhesive (polypropylene, vinyl) |
| Weight    | 60 to 328 g/m <sup>2</sup>   |
| Size      | 24-in printers: 210 x 279 to 610 x 1676 mm (8.26 x 11 to 24 x 66 in) sheets; 279 to 610-mm (11 to 24-in) rolls<br>44-in printers: 210 x 279 to 1118 x 1676 mm (8.26 x 11 to 44 x 66 in) sheets; 279 to 1118-mm (11 to 44-in) rolls   |
| Thickness | Up to 0.8 mm (31.5 mil)  |

| MEMORY |   |
|--------|---|
|        | Basic ePrinter: 8 GB (virtual) <sup>5</sup><br>PostScript® ePrinter: 8 GB (virtual) <sup>5</sup> , 160 GB hard disk |

| CONNECTIVITY               |  |
|----------------------------|--|
| Interfaces (standard)      | Fast Ethernet (100Base-T), Hi-Speed USB 2.0 certified, EIO Jetdirect accessory slot  |
| Print languages (standard) | Basic ePrinter: HP-GL/2, TIFF, JPEG, CALS G4, HP PCL 3 GUI<br>PostScript ePrinter: Adobe® PostScript® 3™, Adobe PDF 1.7, HP-GL/2, TIFF, JPEG, CALS G4, HP PCL 3 GUI    |
| Print languages (optional) | Basic ePrinter: Adobe PostScript 3, Adobe PDF 1.7  |
| Drivers (included)         | HP-GL/2, HPRTI drivers for Windows® (optimized for AutoCAD 2000 and higher); HP PCL 3 GUI driver for Mac OS X; PostScript Windows, Linux, and Mac drivers <sup>6</sup> |

| RECOMMENDED SYSTEM REQUIREMENTS |   |
|---------------------------------|---|
| Mac                             | Mac OS X v 10.4, Mac OS X v 10.5: PowerPC G4, G5, or Intel Core Processor; 1 GB RAM; 2 GB available hard disk space   |
| Windows                         | Windows XP® (SP2 or later): Intel® Pentium® family or AMD® K6/Athlon/Duron family (1 GHz), 1 GB RAM, 2 GB available hard disk space; Windows Vista®: 32-bit (x86) or 64-bit (x64) processor (1 GHz), 2 GB RAM, 2 GB available hard disk space |

| DIMENSIONS (w x d x h) AND WEIGHT |  |
|-----------------------------------|--|
| Printer                           | 24-in printers: 1262 x 702 x 1050 mm (49.7 x 27.6 x 41.3 in); 60 kg (132 lb)<br>44-in printers: 1770 x 701 x 1050 mm (69.7 x 27.6 x 41.3 in); 81.6 kg (180 lb) |
| Shipping                          | 24-in printers: 1440 x 766 x 770 mm (56.7 x 30.2 x 30.3 in); 77 kg (170 lb)<br>44-in printers: 1930 x 766 x 770 mm (76 x 30.2 x 30.3 in); 103 kg (227 lb)      |

| WHAT'S IN THE BOX |   |
|-------------------|---|
|                   | HP Designjet T790 Printer, printheads, introductory ink cartridges, printer stand <sup>7</sup> , spindle, quick reference guide, setup poster, startup software, power cord |

| ENVIRONMENTAL RANGES  |                            |
|-----------------------|----------------------------|
| Operating temperature | 5 to 40°C (41 to 104°F)    |
| Storage temperature   | -25 to 55°C (-13 to 131°F) |
| Operating humidity    | 20 to 80% RH               |
| Storage humidity      | 0 to 95% RH                |

| ACOUSTIC                       |                   |
|--------------------------------|-------------------|
| Sound pressure, active/standby | 46 dB(A)/29 dB(A) |
| Sound power, active/standby    | 6.3 B(A)/4.4 B(A) |

| POWER        |   |
|--------------|---|
| Printing     | < 120 watts   |
| Powersave    | < 7 watts (< 25 watts with embedded Digital Front End)                              |
| Off          | 0.1 watts   |
| Requirements | Input voltage (auto ranging) 100 to 240 VAC (+/- 10%), 50/60 Hz (+/- 3 Hz), 2 A max |

| CERTIFICATION                 |   |
|-------------------------------|---|
| Safety                        | USA and Canada (CSA certified), EU (LVD and EN 60950-1 compliant), Russia (GOST), Singapore (PSB), China (CCC), Argentina (IRAM), Mexico (NYCE)   |
| Electromagnetic               | Compliant with Class B requirements, including: USA (FCC rules), Canada (ICES), EU (EMC Directive), Australia (ACMA), New Zealand (RSM), China (CCC), Japan (VCCI); Certified as Class A product: Korea (KCC) |
| Environmental                 | WEEE, EU RoHS, China RoHS, REACH, EuP, FEMP   |
| ENERGY STAR® qualified models | See: <a href="http://www.hp.com/go/energystar">www.hp.com/go/energystar</a>   |

| WARRANTY |                                    |
|----------|------------------------------------|
|          | One-year limited hardware warranty |

For more information, please visit:  
[www.hp.com/go/designjetT790](http://www.hp.com/go/designjetT790) or [www.hp.com/go/simplify](http://www.hp.com/go/simplify)

## ORDERING INFORMATION

| PRODUCT |   |
|---------|---|
| CR647A  | HP Designjet T790 24-in ePrinter            |
| CR648A  | HP Designjet T790 24-in PostScript ePrinter |
| CR649A  | HP Designjet T790 44-in ePrinter            |
| CR650A  | HP Designjet T790 44-in PostScript ePrinter |

| ACCESSORIES |   |
|-------------|---|
| CN500B      | HP Designjet PostScript Upgrade           |
| CQ783A      | HP Designjet T7xx 24-in Spindle           |
| Q6709A      | HP Designjet 44-inch Roll Feed Spindle    |
| Q6663A      | HP Designjet T/Z 24-in Stand <sup>7</sup> |
| CQ654A      | HP Designjet HD Scanner                   |
| CN501A      | HP Designjet External Hard Disk           |
| J7961G      | HP Jetdirect 635n IPv6/IPsec Print Server |

| ORIGINAL HP PRINTHEADS |  |
|------------------------|--|
| C9380A                 | HP 72 Gray and Photo Black Printhead   |
| C9383A                 | HP 72 Magenta and Cyan Printhead       |
| C9384A                 | HP 72 Matte Black and Yellow Printhead |

| ORIGINAL HP INK CARTRIDGES |  |
|----------------------------|--|
| 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 Gray 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 Gray Ink Cartridge        |

**The HP printing system**  
HP printers, HP ink formulations and printing supplies, and HP printing materials are designed and engineered to work together as an optimized printing system, providing exceptional print quality and reliability—print after print. HP supplies are exceptionally consistent—providing less downtime and increased productivity.

Try these popular HP media and experience optimum performance from your HP printing system:

| ORIGINAL HP LARGE-FORMAT PRINTING MATERIALS      |                         |   |  |
|--|-------------------------|---|--|
| HP Bright White Inkjet Paper                     | ColorPRO FSC® certified | C1860A, C1861A, C6035A, C6036A, C6810A, Q1444A-Q1446A |  |
| HP Universal Bond Paper                          | ColorPRO FSC® certified | Q1396A-Q1398A, Q8751A, Q8003A-Q8005A                  |  |
| HP Recycled Bond Paper                           |                         | CG889A-CG892A   |  |
| HP Universal Coated Paper                        | FSC® certified          | Q1404A-Q1406A   |  |
| HP Universal Heavyweight Coated Paper            | FSC® certified          | Q1412A-Q1414A   |  |
| HP Translucent Bond Paper                        |                         | C3859A, C3860A  |  |
| HP Vellum Paper                                  |                         | C3861A, C3862A  |  |
| HP Clear Film                                    |                         | C3875A, C3876A  |  |
| HP Matte Film                                    |                         | 51642A, 51642B  |  |
| HP Premium Matte Photo Paper                     |                         | CG459A, CG460A  |  |
| HP Premium Plus Gloss Photo Paper (Satin)        |                         | Q5488A (Q7920A, Q5491A)                               |  |
| HP Universal High-gloss Photo Paper (Semi-gloss) |                         | Q1426A-Q1428A (Q1420A-Q1422A)                         |  |
| HP Everyday Adhesive Matte Polypropylene         |                         | CG824A, CG825A, CG843A                                |  |
| HP Coated Paper                                  | PEFC certified          | C6019B, C6020B, C6567B, C6980A, Q1441A-Q1443A         |  |
| HP Heavyweight Coated Paper                      | PEFC certified          | C6029C, C6030C, C6569C, Q1956A                        |  |

For more HP large-format printing materials and detailed information on sizes and region availability, please visit us online at: [www.hp.com/go/lfpprinting/materials-supplies](http://www.hp.com/go/lfpprinting/materials-supplies)

FSC® certified HP printing materials carry the Forest Stewardship Council (FSC) Mixed Sources label, signifying that these media support the development of responsible forest management worldwide.

The PEFC label demonstrates that certified HP papers come from forests that are managed sustainably.

Keep printing materials out of landfill with HP recyclable media eligible for free return and recycling through the HP Large-format Media take-back program.<sup>8</sup>

| SERVICE AND SUPPORT—HP DESIGNJET T790 |         |   |  |
|---------------------------------------|---------|---|--|
| 24-in                                 | 44-in   |   |  |
| HP596E                                | HP998E  | HP 3 year Next Business Day Hardware Support                |  |
| HP601E                                | HQ009E  | HP 4 year Next Business Day Hardware Support                |  |
| HP602E                                | HQ003E  | HP 5 year Next Business Day Hardware Support                |  |
| HP993PE                               | HQ015PE | HP 1 year Post Warranty, Next Business Day Hardware Support |  |
| HP994PE                               | HQ013PE | HP 2 year Post Warranty, Next Business Day Hardware Support |  |
| H4518E                                | H4518E  | HP Network Installation Service                             |  |

<sup>1</sup> Mechanical printing time. Printed in Fast mode with Economode on, using HP Bright White Inkjet Paper (Bond). Measured on a 44-in printer.  
<sup>2</sup> Mechanical printing time. Measured on a 44-in printer.  
<sup>3</sup> +/-0.1% of the specified vector length or +/-0.2 mm (whichever greater) at 23°C (73°F), 50-60% relative humidity, on A0/E printing material in Best or Normal mode with HP Matte Film.  
<sup>4</sup> Measured on HP Matte Film.  
<sup>5</sup> Based on 640 MB RAM.  
<sup>6</sup> Included with PostScript printers only.  
<sup>7</sup> Stand not included in the box for 24-in printers outside of North America and Latin America.  
<sup>8</sup> HP Large-format Media take-back program availability varies. Some recyclable HP papers can be recycled through commonly available recycling programs. Recycling programs may not exist in your area. See [www.hp.com/recycle](http://www.hp.com/recycle) for details.

