

# HP DesignJet Studio 24-in Printer



Design meets performance in the world's easiest large-format plotters<sup>1</sup>



\*Product image may differ from actual product

### Fits the way you live

- Design that performs, technology that stands out.
- Easily set up your plotter using your smartphone.
- First net carbon neutral HP DesignJet plotter.<sup>2</sup>

### Extreme simplicity

- Print multi-size A3/B and A1/D projects automatically, without manually switching the media source.
- Save time with the world's easiest job submission<sup>3</sup>—send multiple files in one click with HP Click.<sup>4</sup>
- Print with confidence you'll get the results you expect with an intuitive driver and true print preview.

### Fits the way you work

- Avoid waiting by the printer with high-speed printing as fast as 26 seconds per A1/D plot.
- Be more productive—save time from job prep to final print by printing your projects up to 2X faster.<sup>3</sup>
- Print your jobs and manage your plotter from virtually anywhere, anytime with the HP Smart app.
- Get high-quality results—HP Bright Office Inks plot up to 31% more line accuracy and up to 65% more gamut.<sup>5</sup>

Dynamic security enabled printer. Contains technology that may prevent cartridges with non-HP chips or circuitry from working now or in the future. More at: <http://www.hp.com/learn/ds>

### Messaging Footnotes

<sup>1</sup> The HP DesignJet Studio Printer series and the HP DesignJet T600 Printer series are the only solutions providing seamless printing of both large- and small-format sheets automatically in a multi-size print basket compared to competitive alternatives with comparable size and features as of January, 2020.

<sup>2</sup> HP is reducing the carbon footprint of printing through carbon reduction initiatives such as energy efficiency, reduced packaging, and use of recycled plastics. The HP DesignJet Studio Printer is the first HP DesignJet where HP has offset the remaining carbon impact due to raw material extraction and processing, printer manufacturing and transportation, as well as electricity, paper, and cartridge use in accordance with The CarbonNeutral Protocol <https://www.carbonneutral.com/how/carbonneutral-protocol>.

<sup>3</sup> Three-click printing with HP Click software compared to up to 11 clicks with competitive alternatives when printing 5 files of different sizes. Applicable to PDF, JPEG, TIFF, DWF, and HP-GL/2 files. Based on testing the HP DesignJet Studio 36-in Printer, from job prep to print is up to 2x faster than competitive alternatives with comparable size and features as of January, 2020.

<sup>4</sup> One-click printing with HP Click software. Applicable to PDF, JPEG, TIFF, DWF, and HP-GL/2 files.

<sup>5</sup> Up to 31% more line accuracy based on HP internal testing, September 2019 of 1 pixel vertical line straightness comparing prints from the HP DesignJet Studio Printer series and Canon TM-305 Printer on plain paper using equivalent fast/draft print modes. Up to 65% more color gamut based on HP internal testing, September 2019, of gamut volume comparing prints from the HP DesignJet Studio Printer series and Canon TM-305 Printer on Océ 75gsm plain paper using equivalent fast/draft print modes.

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

# Technical specifications

|                        |                                                                                                                                                                                                                                                        |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Print                  |                                                                                                                                                                                                                                                        |
| Print speed            | 26 sec/page on A1, 81 A1 prints per hour <sup>1</sup>                                                                                                                                                                                                  |
| Print resolution       | Up to 2400 x 1200 optimized dpi                                                                                                                                                                                                                        |
| Technology             | HP Thermal Inkjet                                                                                                                                                                                                                                      |
| Margins (roll)         | 5 x 5 x 5 x 5 mm                                                                                                                                                                                                                                       |
| Margins (sheet)        | 5 x 5 x 5 x 17 mm (manual feed); 5 x 5 x 5 x 5 mm (input tray)                                                                                                                                                                                         |
| Ink types              | Dye-based (C, M, Y); pigment-based (K)                                                                                                                                                                                                                 |
| Ink cartridges         | 4 (C, M, Y, K)                                                                                                                                                                                                                                         |
| Cartridge size         | 80 ml (K); 38 ml (K); 29 ml (C, M, Y)                                                                                                                                                                                                                  |
| Page Yield             | 20 ml of ink yields 101 A1/D pages, taking into account maintenance routines <sup>2</sup>                                                                                                                                                              |
| Ink drop               | 5.5 pl (C, M, Y); 12 pl (K)                                                                                                                                                                                                                            |
| Printheads             | 1 (cyan, magenta, yellow, black)                                                                                                                                                                                                                       |
| Printhead nozzles      | 1376                                                                                                                                                                                                                                                   |
| Line accuracy          | ±0.1% <sup>3</sup>                                                                                                                                                                                                                                     |
| Minimum line width     | 0.02 mm                                                                                                                                                                                                                                                |
| Max optical density    | 8 l* min/2.10 D <sup>4</sup>                                                                                                                                                                                                                           |
| Media                  |                                                                                                                                                                                                                                                        |
| Applications           | Line drawings; Presentations; Renderings                                                                                                                                                                                                               |
| Handling               | Sheet feed, roll feed, automatic sheet feeder, media bin, automatic horizontal cutter                                                                                                                                                                  |
| Rolls                  | Media rolls: 1; Roll size: 279 to 610 mm; Maximum roll weight: 4.1 kg; Maximum roll diameter: 100 mm;                                                                                                                                                  |
| Maximum media width    | 610 mm                                                                                                                                                                                                                                                 |
| Sheet size             | Auto sheet feeder: 210 x 279 to 330 x 482 mm; manual feed: 210 x 279 to 610 x 1897 mm                                                                                                                                                                  |
| Standard sheets        | Auto sheet feeder: A4, A3; manual feed: A4, A3, A2, A1                                                                                                                                                                                                 |
| Recommended Grammage   | 60 to 280 g/m² (roll/manual feed); 60 to 220 g/m² (auto sheet feeder)                                                                                                                                                                                  |
| Thickness              | Up to 0.3 mm                                                                                                                                                                                                                                           |
| Media types            | Bond and coated paper (bond, coated, heavyweight coated, plain, bright white, blueprint), technical paper (natural tracing), film (clear, matte), photographic paper (satin, gloss, semigloss, polypropylene), self-adhesive (adhesive, polypropylene) |
| Embedded controller    |                                                                                                                                                                                                                                                        |
| Memory                 | 1 GB                                                                                                                                                                                                                                                   |
| Hard disk              | None                                                                                                                                                                                                                                                   |
| Native print languages | HP-GL/2, HP-RTL, CALS G4, JPEG, URF                                                                                                                                                                                                                    |
| Connectivity           |                                                                                                                                                                                                                                                        |
| Interfaces             | Gigabit Ethernet (1000Base-T), Hi-Speed USB 2.0, Wi-Fi 802.11a/b/g/n, Wi-Fi Direct                                                                                                                                                                     |
| Printing paths         | Print Anywhere with HP Smart app, HP Click App, HP Click Driver for Windows 11, HP driver for macOS, HP driver for Windows, printing support for Chrome OS, email printing, HP Print Service Plugin for Android, Apple AirPrint                        |

## Ordering information

|                               |                                                     |
|-------------------------------|-----------------------------------------------------|
| Product                       |                                                     |
| 5HB12A                        | HP DesignJet Studio 24-in Printer                   |
| Accessories                   |                                                     |
| B3Q36A                        | HP DesignJet 24-in Spindle                          |
| Original HP printing supplies |                                                     |
| 3ED28A                        | HP 712B 38-ml Black DesignJet Ink Cartridge         |
| 3ED29A                        | HP 712B 80-ml Black DesignJet Ink Cartridge         |
| 3ED58A                        | HP 713 DesignJet Printhead Replacement Kit          |
| 3ED67A                        | HP 712 29-ml Cyan DesignJet Ink Cartridge           |
| 3ED68A                        | HP 712 29-ml Magenta DesignJet Ink Cartridge        |
| 3ED69A                        | HP 712 29-ml Yellow DesignJet Ink Cartridge         |
| 3ED77A                        | HP 712 3-pack 29-ml Cyan DesignJet Ink Cartridge    |
| 3ED78A                        | HP 712 3-pack 29-ml Magenta DesignJet Ink Cartridge |
| 3ED79A                        | HP 712 3-pack 29-ml Yellow DesignJet Ink Cartridge  |

Use Original HP inks and printheads, and HP large format printing materials, to experience consistent high quality and reliable performance that enable less downtime. These critical components are designed and engineered together as an optimized printing system, and Original HP inks are designed to maximize the life of

|                                   |                                                                                                                                                                                                                                             |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Remote print enabled              | Yes                                                                                                                                                                                                                                         |
| One-click multi-size printing     | Yes                                                                                                                                                                                                                                         |
| Drivers                           | Raster driver for Windows and macOS, HP Click Driver for Windows 11                                                                                                                                                                         |
| Dimensions (W x D x H)            |                                                                                                                                                                                                                                             |
| Product                           | 1013 x 555 x 932 mm                                                                                                                                                                                                                         |
| Shipping                          | 1199 x 590 x 524 mm                                                                                                                                                                                                                         |
| Weight                            |                                                                                                                                                                                                                                             |
| Product                           | 33.6 kg                                                                                                                                                                                                                                     |
| Shipping                          | 43 kg                                                                                                                                                                                                                                       |
| Included                          |                                                                                                                                                                                                                                             |
| What's in the box                 | HP DesignJet Studio 24-in Printer, printer stand, automatic sheet feeder, roll cover, printhead, introductory ink cartridges, spindle, quick reference guide, setup poster, power cord                                                      |
| HP Software and solutions         | HP Click App, HP Click Driver for Windows 11, HP Smart app, HP Print Preview for Windows, HP Easy Start, HP DesignJet Utility for Windows, HP Support Assistant                                                                             |
| Environmental ranges              |                                                                                                                                                                                                                                             |
| Operating temperature             | 5 to 40°C                                                                                                                                                                                                                                   |
| Operating humidity                | 20 to 80% RH                                                                                                                                                                                                                                |
| Operating altitude                | Up to 3000 m                                                                                                                                                                                                                                |
| Storage temperature               | -25 to 55°C                                                                                                                                                                                                                                 |
| Recycled plastic in printer       | 10%                                                                                                                                                                                                                                         |
| Acoustics                         |                                                                                                                                                                                                                                             |
| Sound pressure                    | Printing: 42 dB(A) (operating), <16 dB(A) (idle)                                                                                                                                                                                            |
| Sound power                       | Printing: 5.8 B(A) (operating), <3.4 B(A) (idle)                                                                                                                                                                                            |
| Power                             |                                                                                                                                                                                                                                             |
| Consumption                       | <35 W (printing), <5.6 W (ready), <2.1 W (sleep), <0.2 W (standby)                                                                                                                                                                          |
| Requirements                      | Input voltage (auto ranging): 100-240 V (±10%), 50/60 Hz (±3 Hz), 1200 mA max. Not dual voltage, power supply varies by part number with # Option code identifier.                                                                          |
| Certification                     |                                                                                                                                                                                                                                             |
| Sustainable impact specifications | Free, convenient HP ink cartridge and printhead recycling with HP Planet Partners; FSC®-certified papers and a range of recyclable HP media with a take-back program; First net carbon neutral HP DesignJet plotter; ENERGY STAR® certified |
| Safety                            | USA and Canada (CSA certified); EU (LVD, EN 60950-1 and EN 62368-1 compliant); Russia, Belarus, Khazakstan (EAC); Ukraine (UA); Singapore (PSB); China (CCC); Argentina (IRAM); India (BIS); Mexico (NYCE)                                  |
| Electromagnetic                   | Compliant with Class B requirements, including: USA (FCC rules), Canada (ICES), EU (EMC/RED Directives), Australia (ACMA), New Zealand (RSM), China (CCC), Japan (VCCI); Certified as Class B product: Korea (KCC)                          |
| Environmental                     | ENERGY STAR; WEEE; EU RoHS; EAEU RoHS; REACH; ErP                                                                                                                                                                                           |
| Warranty                          | One-year limited hardware warranty                                                                                                                                                                                                          |

HP printheads. Protect your HP printer investment by using Original HP inks for full HP warranty protection. For more information, visit <https://hp.com/go/OriginalHPInks>

**Original HP large format printing materials**

HP Universal Bond Paper (FSC® certified)<sup>9</sup> (recyclable)<sup>6</sup>  
HP Coated Paper (FSC® certified)<sup>9</sup> (recyclable)<sup>6</sup>  
HP Heavyweight Coated Paper (FSC® certified)<sup>5</sup> (recyclable)<sup>6</sup>

For the entire HP Large Format Printing Materials portfolio, please see [HPLFMedia.com](http://HPLFMedia.com).

|                     |                                            |
|---------------------|--------------------------------------------|
| Service and Support |                                            |
| UD5L0E              | HP 2 year NBD Onsite Support               |
| UD5L1E              | HP 3 year NBD Onsite Support               |
| UD5L2E              | HP 4 year NBD Onsite Support               |
| UD5L3E              | HP 5 year NBD Onsite Support               |
| UD5L4PE             | HP 1 year Post Warranty NBD Onsite Support |
| UD5L5PE             | HP 2 year Post Warranty NBD Onsite Support |

HP Support Services offer installation and extended support services (e.g. 2, 3, 4, and 5 years). For more information, please visit <http://www.hp.com/go/cpc>

## Specification Footnotes

<sup>1</sup> Mechanical printing time. Printed in Fast mode with Economode on, using HP Bright White Inkjet Paper (bond) and Original HP inks. Actual performance may vary based on a variety of conditions, including but not limited to network configuration.

<sup>2</sup> Calculation done taking into account two normal printhead cleanings and ink on an A1/D CAD drawing with black and color lines and a pixel coverage of 5.2%.

<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 Heavyweight Coated roll feed and Original HP inks.

<sup>4</sup> With HP Premium Instant Dry Photo Gloss media with Original HP inks.

<sup>5</sup> BMG trademark license code FSC®-C115319, see <http://www.fsc.org>. HP trademark license code FSC®-C017543, see <http://www.fsc.org>.

<sup>6</sup> Can be recycled through commonly available recycling programs.

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