
Product Information

Description

Applications

The HP DesignJet 700 (monochrome), HP DesignJet 750C and 750C Plus (color) and HP DesignJet 750CM are large-format, ink-jet plotters/printers that print output from software applications, on paper and other media.

The plotters/printers produce large-format plots of high resolution and quality for the following sectors:

- Computer-aided design (CAD)
- Computer-aided manufacturing (CAM)
- Mapping
- Mechanical and architectural drawing
- General drafting

Drivers

Software drivers for the following applications are supplied with the plotters:

- AutoCAD for DOS
- AutoCAD for Windows
- MicroSoft Windows Applications

(Other application software ♦ User's Guide, chapter 1.)

Graphics Languages

The plotters accept drawing data in the following graphics languages:

- Hewlett-Packard Graphics Language (HP-GL), a vector language.
- HP-GL/2, an enhanced version of HP-GL.
- Hewlett-Packard Raster Transfer Language (HP-RTL), a raster language.

The plotters support HP-GL/2 with both the roman and the Japanese Kanji character sets (provided the Kanji ROM SIMM is fitted). PostScript is also available when the Postscript upgrade is fitted.

Device-Control Languages

The plotters support the following languages, enabling the user to read certain plotter settings from the computer:

- Printer Job Language (PJM)
- Printer Management Language (PML)

Interface

The plotter has both RS-232-C and Centronics/Bi-Tronics interfaces.

Network Connections

The following network operating systems are supported through an optional MIO external network interface:

- Novell Netware (Ethernet)
- LAN Manager
- Token Ring network
- Apple LocalTalk
- HP external controller
- TCP/ICP host work station
- Ethertalk

Memory

700 DesignJet 700 plotters have 5.5 MB of standard on-board RAM. A PostScript SIMM and an MIO card are optional. There are also two RAM expansion sockets, which can hold an optional 4MB, 8 MB, 16 MB or 32 MB single in-line memory module (SIMM). The maximum RAM is therefore 69.5 MB.

750C Plus DesignJet 750C Plus plotters have 8 MB of standard on-board RAM, plus an additional 3 MB used internally. A PostScript SIMM and an MIO card are optional. There are also two RAM expansion sockets, which can hold an optional 4 MB, 8 MB, 16 MB or 32 MB single in-line memory module (SIMM). The maximum RAM is therefore 72 + 3 MB.

750C DesignJet 750C plotters have 4 MB of standard on-board RAM, plus an additional 3 MB used internally. A PostScript SIMM and an MIO card are optional. There are also two RAM expansion sockets, which can hold an optional 4MB, 8 MB, 16 MB or 32 MB single in-line memory module (SIMM). The maximum RAM is therefore 68 + 3 MB.

755 CM DesignJet 755CM printers (Model C3198A) have 4 MB of standard on-board RAM, plus an additional 3 MB used internally. In addition, the Postscript SIMM, the MIO card and two 32 MB SIMMs are pre-installed in the standard configuration. Therefore the total amount of useable RAM is 68 MB.

DesignJet 755CM printers (Model C3198B) have 8 MB of standard on-board RAM, plus an additional 3 MB used internally. In addition, the Postscript SIMM, the MIO card and two 32 MB SIMMs are pre-installed in the standard configuration. Therefore the total amount of useable RAM is 72 MB.

Accuracy

The accuracy of the plotters in drawing a vector is ± 0.38 mm (0.015 in) or $\pm 0.2\%$ of the specified vector length, whichever is greater, at 23 °C (73 °F) at 50-60% relative humidity, on HP special polyester film.

Resolution

The resolution of the plotter output is measured in dots per inch (dpi). The plotter resolutions for different plot-quality settings are as follows:

750C
755
CM

Note: This table is for DesignJets 750C and 755CM (model C3198A).

Plot/Print Quality	Monochrome	Color
Fast	300 x 300 dpi	300 x 300 dpi, dot depleted
Normal	600 x 600 dpi	300 x 300 dpi
Best	600 x 600 dpi	300 x 300 dpi (But 600 x 600 dpi for black with HP RTL)

750C
Plus
755
CM

Note: This table is for DesignJets 750C Plus and 755CM (model C3198B).

Plot/Print Quality	Monochrome	Color
Fast	300 x 300 dpi	300 x 300 dpi, dot depleted
Normal	600 x 600 dpi	300 x 300 dpi
Best	600 x 600 dpi	600 x 600 dpi addressable

700

Plot/Print Quality	Monochrome
Fast	300 x 300 dpi
Normal	600 x 600 dpi
Best	600 x 600 dpi

Media Types (See also ► HP Media Reference Guide)

Monochrome Plotting

Plain paper and plotter paper

Plain vellum (HP preferred)

Plain translucent paper (HP preferred)

HP single-matte polyester film

Color Plotting

HP special inkjet paper

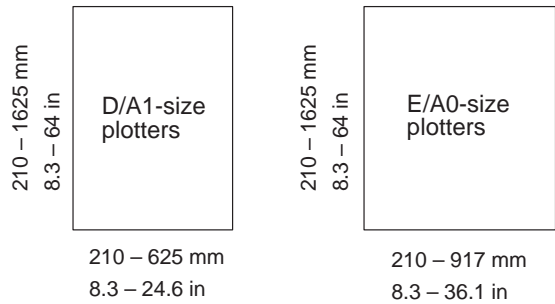
For additional media types available ► User's Guide, chapter 3, § *Choosing media*.

Media Sizes

The plotters handle sheet media and roll media. Supported standard sizes are as follows:

	D/A1-size plotters	E/A0-size plotters
ANSI	A, B, C, D	A, B, C, D, E
ISO	A4, A3, A2, A1	A4, A3, A2, A1, A0
Metric Oversize	A2, A1	A2, A1, A0
Architectural	C, D	C, D, E, E1
JIS	A4, A3, A2, A1 B4, B3, B2	A4, A3, A2, A1, A0 B4, B3, B2, B1, B0

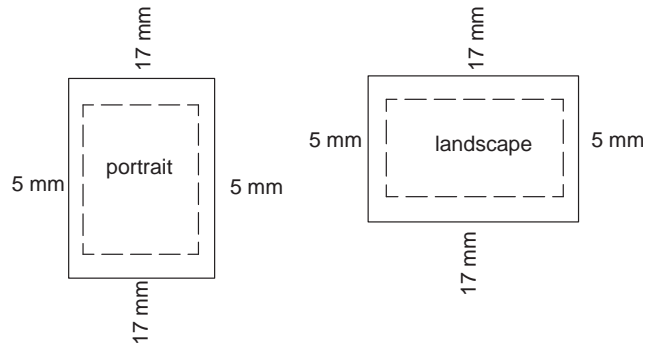
Sheet media must not exceed the maximum and minimum dimensions shown here:



Media Margins

The media margins define the real available plotting area on the media:

17 mm = 0.67 in
 5 mm = 0.2 in
 All measurements +/- 2mm (0.08 in)



Other Plotter Features

- Automatic media-edge sensing.
- Automatic cartridge alignment, testing and servicing.
- Built-in diagnostics and demonstration plots.
- Automatic media stacking with adjustable media bin.
- An automatic single-axis cutter.
- Queuing, nesting and expanded margin capabilities (not applicable to plotters/printers with the PostScript SIMM installed).
- Easy-to-read 2x30 vacuum fluorescent display (VFD).

Upgrading

An upgrade package, which can be installed by the user and which consists of an extra ROM and Postscript SIMMs is available.

The differences between this plotter/printer and previous ones are:

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|-----------------------------------|--|
| 750C
Plus | <ul style="list-style-type: none">● Addressable 600-dpi color print for excellent print quality.● Real 600-dpi monochrome print for excellent CAD print quality. |
| 750C
750C
Plus
755
CM | <ul style="list-style-type: none">● Quality color printing on plain CAD Bond paper.● Up to 9 months of indoor lightfastness with new color inks.● Optional color matching via Pantone-licensed, color palettes and optional color management kit.● ColorSmart color-rendering technology support for Windows users.● Darker pigment-based black ink for sharper quality mono lines and text.● Better image quality via advanced imaging print modes.● Support for additional media including clear film, and several types of glossy paper.● Windows 95 support.● Much faster Windows driver that uses half as much memory and has an “always available” print mode.● Faster AutoCAD driver.● Broad support of Asian drivers (Japanese, Korean, Chinese and Taiwanese for AutoCAD and Korean and Japanese for Windows).● Faster I/O via a 5-times improvement in Bitronics I/O interface speed.● Support for HP Jet Direct MIO 6.0 and Jet Direct EX and fast parallel port ECP.● New industrial design.● US EPA Energy Star rating (45 watt limit). |