

HP DraftPro Plus Large-Format Pen Plotter

Technical Data



Whether you are thinking about buying your very first pen plotter, or as an experienced user you are simply looking for an affordable, high-quality plotting solution, the HP DraftPro Plus is designed for you.

Its combination of features, at a very competitive price, makes it a

versatile plotter suitable for a wide range of users.

Add to that Hewlett-Packard reliability that has made our plotters the long-time leaders in the industry, and you've got the plotter that gives years and years of dependable, high-quality plotting.

**Quality plotting,
right down the line.**

The HP DraftPro Plus plotter offers a range of features designed to bring you the high-quality, professional plotting that today's CAD environments demand.

With a mechanical resolution of 0.013 mm (0.0005 in) and addressable resolution of 0.025 mm (0.001 in), the HP DraftPro Plus delivers well-defined lines and crisp characters. In addition, an algorithm specially developed by Hewlett-Packard produces extra-smooth curves and cleaner corners as it further enhances overall line quality.

**Proven performance,
on paper – and in practice.**

All too often you read about plotting speeds which look good on paper but never quite live up to the claims. This is because your pen plotter's overall performance is made up of more than just speed.

The HP DraftPro Plus plotter combines all the necessary elements to produce truly dependable performance. As well as a 3.0 g. maximum acceleration and 110 cm/s (43 ips) maximum velocity, the HP DraftPro Plus has a fast pen up/down mechanism and a special pen sorting feature which minimizes pen changes for more efficient plotting.

A drawing quality option allows you to choose between draft mode for high speed plots, especially suitable for check plots, and a quality mode which slows the pen speed to enhance plot quality when required.

**Professional plotting
at your fingertips.**

One of the special features of the all-new design of the HP DraftPro Plus is its new front panel. It has an easy-to-read vacuum fluorescent display, immediate-action keys, and direct-access menu keys for fast access to the plotter's many functions. For even more convenience, the menu system operates on two levels – a short menu containing only the most commonly used functions, and a full menu which incorporates all 26 functions.

This extended capability allows you to carry out a wide range of plotting tasks quickly and easily, and will ensure that the HP DraftPro Plus will continue to meet your needs as your workload grows.

As versatile as the work you do.

Whatever type of plotting you need to do, you'll find that the HP DraftPro Plus has the pen and media flexibility to get the job done.

Available in D/A1- and E/A0-size, each model supports four types of pens – fiber tips for both paper and transparency, refillable drafting pens, and HP SurePlot disposable drafting pens.

Media support is equally extensive, covering plotter paper, vellum, translucent media, double-matte polyester film, and transparency film.

In addition, a continuous grit wheel permits you to plot non-standard size drawings, too.

Making the right connections.

The HP DraftPro Plus has been designed to be compatible with a wide variety of hardware and software, and connects easily to almost all types of PCs and workstations.

The plotter implements HP-GL/2 graphics language, which through its special data compaction feature creates smaller plot files, reducing file transmission time. For those software packages that may not support HP-GL/2, an HP-GL emulation mode is also provided.



An expanded RS-232-C serial interface (up to 19,200 bauds) and an even faster Centronics parallel interface, together with the 1 MB standard buffer, all combine to greatly reduce lock-out time and free up your computer quickly.

The HP DraftPro Plus comes complete with HP-GL/2 software drivers for AutoCAD Releases 10, 11, and 12.

Tried and tested – so you won't be.

At Hewlett-Packard we understand that equipment downtime can be a frustrating waste of time and money. So you can be sure that all HP DraftPro Plus plotters meet the same tough standards for quality and reliability that have made our plotters the leaders in the industry. In fact, we are so sure about their reliability that each one comes with a 3-year, onsite warranty and low onsite service contract prices.

Price isn't always everything.

When buying a plotter, it's important to remember that price means not just the purchase cost, but also the ongoing costs of operation and maintenance. Ideally you are looking for a plotter that delivers the quality and dependability you need – at a total price you can afford.

We at Hewlett-Packard think the same way. An affordable plotter with the ability to keep pace with your growing needs.

That's the HP DraftPro Plus.



Performance Characteristics

Media sizes		Ranges include ISO sizes A4 through A0, ANSI sizes A through E, plus architectural sizes and oversized media.
	D/A1-size	Widths from 207 mm (8.16 in) to 635 mm (25.02 in) Lengths from 210 mm (8.28 in) to 1600 mm (63 in)
	E/A0-size	Widths from 207 mm (8.16 in) to 918 mm (36.17 in) Lengths from 210 mm (8.28 in) to 1600 mm (63 in)
Pens	Number	8 in a carousel
	Type	Fiber-tip (paper and transparency), disposable drafting, refillable drafting.
Media		Paper, vellum, double-matte polyester film, glossy paper, translucent bond and transparency film.
Resolution	Addressable	0.025 mm (0.001 in)
	Mechanical	0.013 mm (0.0005 in)
Repeatability Accuracy		For the same pen: 0.1 mm (0.004 in) 0.5 mm (0.02 in) or 0.2% of the specified line length whichever is greater. (These specifications are for 0.075 mm (0.003 in) double-matte polyester film from 10° to 30° C)
Pen Velocity Acceleration		Maximum pen speed: 110 cm/s (43 ips) 3.0 g maximum
Margins	Expanded Mode	5.0 mm (0.2 in) on three edges, 31.0 mm (1.2 in) on the fourth.
	Normal Mode	15.0 mm (0.59 in) on three edges, 39.0 mm (1.5 in) on the fourth.
Buffer Size		1 MB
Interfaces		Centronics parallel and RS-232-C serial

Environmental Ranges

Temperature	Operating	0 to 55 degrees C (32 to 131 degrees F)
	Storage	-40 to 70 degrees C (-40 to 158 degrees F)
Humidity	Operating	5 to 90% relative humidity at 22 degrees C
	Recommended	20 to 80% relative humidity at 22 degrees C

Power Requirements

Source	100 through 240 V, ±10%, wide range
Frequency	48 through 63 Hz
Consumption	95 W maximum

Physical Specifications

Width x Depth x Height	D/A1-size	1161 mm x 686 mm x 1240 mm (46 in x 27 in x 49 in)
	E/A0-size	1445 mm x 686 mm x 1240 mm (57 in x 27 in x 49 in)
Weight	D/A1-size	Net weight: 47 kg (104 lb), shipping weight 66 kg (146 lb)
	E/A0-size	Net weight: 53 kg (117 lb), shipping weight 75 kg (165 lb)

Product Certifications

Safety	UL listed, CSA and NOM certified, NEMKO approved, German Noise Declaration, EN 60950 compliant.
EMC	FCC Class B certified, registered VCCI Class 2, UK general approval, DOC compliant, 89 / 336 / EEC EMC Directive compliant, Korea RRL certified.

Ordering Information

HP Part Number Description
HP DraftPro Plus large-format
drafting plotter

C3170A D/A1-size
C3171A E/AO-size

**Note: Interface cables must be ordered
separately.**

Accessories Included

Setup Guide, User's Guide,
Powercord (appropriate to plotter
destination), assorted pens and
media, adjustable pen carousels (2),
grit wheel brush, Plotter supplies
catalog, Configuration Note(s) for
specific application software, driver
disk(s) for specific application
software, Front panel overlay.

Call your local HP office for more
information:

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