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## HP 7600 Series Model 355 Color Electrostatic Plotter



Bringing traditional  
HP reliability to  
electrostatic plotting

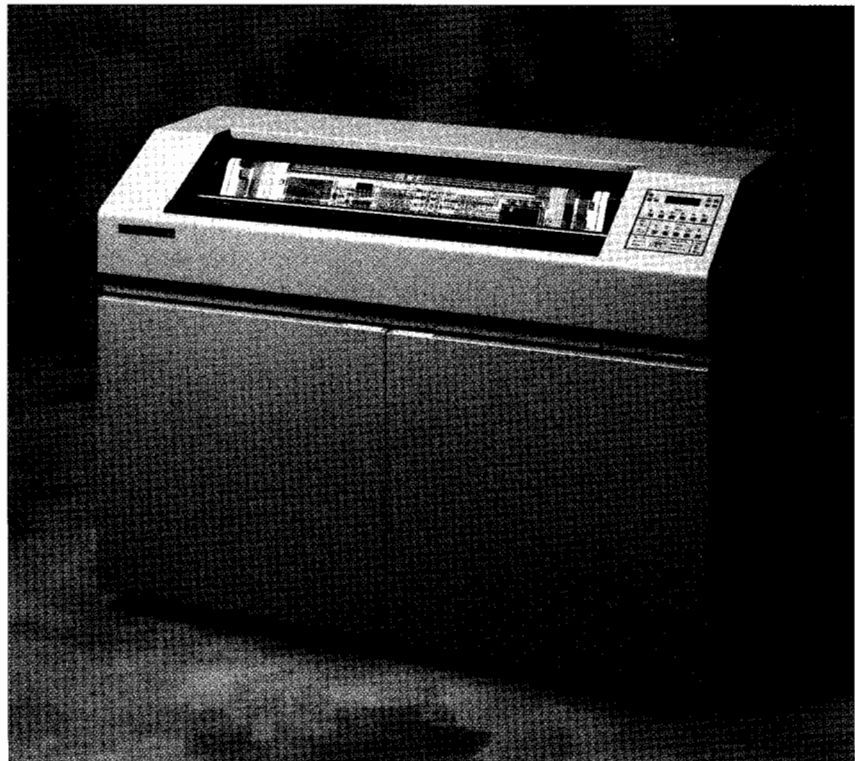
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### Technical Data

#### Features

- 406 dpi resolution
- Full-size color plots in less than eight minutes
- Automatic cutter and take-up reel
- Over 2000 user-selectable colors
- Complete media set
- Front panel access to advanced plotting features
- User-definable palettes, setups
- Plot queuing and nesting
- Rasterizer with hard disk
- HP-GL/2 language and PCL-based raster graphics input
- One-year on-site warranty

The HP 7600 Series Model 355 color electrostatic plotter offers a complete plotting solution for your high-volume CAD environment. It combines fast plotting speed with high-quality color output to produce line drawings, complex plots, or shaded renderings for mapping, surveying, and mechanical, civil, and electrical engineering applications.



HP's Model 355 plotter uses roll media 914 mm (36 in) wide to create drawings up to A0/E-size or long-axis plots up to 15.3 m (50 ft). And one affordable price includes the plotter, the rasterizer, installation by a qualified representative, and a one-year on-site warranty.

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### **High-productivity Plotting**

If you're adding more CAD users, your output volume is growing, and the complexity of your plots is increasing, you need the high-performance of the HP 7600 Series Model 355 plotter.

#### *Fast Plotting*

Actual plotting time for typical final-quality, A0/E-size drawings is less than one minute plus data transmission time for monochrome plots, less than eight minutes plus data transmission time for color.

#### *Variable Plotting Speeds*

The HP 7600 Series plotters have variable plotting speeds, so you can choose the balance of speed and quality that's right for your application. And all speeds operate at the same resolution.

#### *Rasterizer and Hard Disk*

The rasterizer, built on the Motorola 68020 32-bit processor, and the 40 megabyte hard disk provide top performance, simultaneous rasterization and printing, and plot management capabilities.

#### *Easy to Share*

The HP 7600 Series plotters were designed to be shared. The front panel allows you to store multiple palettes and user setups. The supply monitoring system and unattended plotting capabilities mean they require little supervision. And the fast plotting speed means a single plotter can easily serve the output needs of an entire department.

### **Top-quality Output**

HP's Model 355 plotter delivers the high-quality output that you expect from an HP plotter: straight lines, sharp corners, and smooth shading. Even small text and fine lines are crisp and clear. An electronic registration system ensures the best possible alignment on color plots with the cutter or the take-up reel.

#### *406 DPI Resolution*

The HP 7600 Series plotters have a resolution of 406 dots per inch—the high resolution you need for final-quality drawings.

#### *Complete Supplies System*

HP toner has been carefully formulated for vibrant color and durability. The media set includes paper, vellum, translucent (for monochrome plotting only), and clear and matte film, to meet all your plotting needs: working copy, final plots, and archival drawings. The HP 7600 Series plotters automatically monitor supplies usage—the front panel warns you when media or toner supply is low so you get consistent plotting.

#### *Custom Palettes*

Five different palettes—four of which are user-definable—can be accessed from the front panel. Each palette consists of 256 logical pens and defines several attributes (type, width, and color) for each pen. You can even choose screened or patterned lines.

#### *Special Features*

When you have special plotting needs, use the mirror image or rotate features. Both are available from the front panel or through software command.

### **Colors Plus Shades of Gray**

The HP 7600 Series Model 355 can access a complete spectrum of colors and shades of gray for easy differentiation and smooth shading.

#### *Thousands of Colors*

The HP 7600 Series plotters use dithering algorithms to combine black, cyan, magenta, and yellow toner to form hundreds of thousands of colors and shades, including 64 shades for each of the four toners. And all these shades are accessible through software.

#### *User-selectable Colors*

When you're defining palettes from the front panel, you can select from a pre-defined set of over 2000 dithered colors.

#### *Multiple Plotting Modes*

Use Monochrome Mode when you're plotting monochrome drawings for archival use or reproduction. For quick check plots of a color drawing, set the plotter to Preview Mode. The plotter will automatically default all colors to appropriate shades of gray. Use one of the color modes and your drawing will plot in full color. You can even send a file in Preview Mode, plot it, then switch to a color mode and plot in color without re-transmitting the file.

### **Complete Media Handling**

In a multi-user plotting environment, you need a flexible media handling solution to effectively manage your workload—both now and as you grow. That's why the HP 7600 Series plotters are designed to handle unattended or overnight plotting, or provide immediate access to drawings as they plot.

### *Automatic Media Cutter*

With the standard automatic cutter and media stacker, you can neatly cut and stack five to ten drawings without operator intervention or manual cutting. The cutter automatically cuts off each plot as it finishes, and the plotter can be set to advance only the length of media you need for your drawings.

### *Take-up Reel*

The built-in take-up reel handles a full media roll—152.4 m (500 ft) for paper and 60.1 m (200 ft) for film—and is perfect for overnight or remote plotting. And a built-in manual cutter makes it simple to remove drawings from the take-up reel or separate long-axis plots.

### **Front-panel Access to Advanced Features**

The front panel complements your software by providing easy access to many of the plotter's advanced features.

### *Easy Access to Features*

You can define palettes, access up to five user setups, select plot modes, and manage the plotting queue, all from the front panel. The HP 7600 Series front panel has an easy-to-read 4 × 20 LCD, one-touch master menus, and a context-sensitive on-line help facility. And all front-panel menus and overlays are available in English, German, or French.

### *Plot Management*

From the front panel, you can queue up plots, change priorities within the queue, receive plots while plotting, or ask for multiple copies of a plot already transmitted. When you're doing several smaller drawings, activate plot nesting. It will arrange the plots to minimize media usage—and that saves you money.

### **System Integration**

The HP 7600 Series plotters have been designed to work efficiently with a wide range of computers.

### *HP-GL/2*

Built on the industry-standard HP-GL command language, HP-GL/2 is Hewlett-Packard's new standard graphics language. It provides faster performance via a data compaction command plus simple software access to advanced features such as screened lines, plot scaling, and shading. And a single HP-GL/2 driver can support a variety of plotters and technologies.

HP-GL/2 is rapidly emerging as the new standard for CAD peripherals. Leading vendors of PC, workstation, and large system software are committed to providing support for HP-GL/2 plotters.

### *Raster Input*

To take full advantage of the plotter's raster technology, the HP 7600 Series plotters support a PCL-based command set. The plotters accept raster input for plots up to A0/E-size and supports several raster compaction modes including CCITT Group 4.\*

### *HP 7586B Emulation*

These HP 7600 Series plotters also have an HP 7586B emulation mode for HP-GL compatibility. When combined with features accessible from the front panel, you can use most software which supports an HP 7586B plotter.

### *Three Interfaces*

The HP 7600 Series Model 355 comes with three industry standard interfaces—RS-232-C/CCITT V.24, HP-IB (IEEE 488-1978), and Centronics parallel.

### **Traditional HP Reliability**

HP knows that product reliability means less downtime, lower service and support costs, and improved productivity. That translates into a significantly lower overall cost of ownership to you.

### *Proven Design*

The HP 7600 Series Model 355 meets the same stringent standards for quality and reliability that have made HP pen plotters leaders in the industry. And they're based on the proven design of the HP 7600 Series Models 240D and 240E.

### *Extensive Testing*

The HP 7600 Series plotters have been subjected to dozens of tests, including vibration, shock, and extreme temperature cycling—all to ensure you get reliable, consistent plotting.

### *One-year Warranty*

We stand behind our reliability claim with a one-year on-site warranty and low service contract prices.

### *Post-sales Support*

If you do need information or service, more than 415 sales and service facilities represent HP in 76 countries around the world. And HP guarantees the availability of parts, service, and support for at least five years after purchase.

\* This is a special subset of graphics commands for use with the HP 7600 Series plotters. Raster input requires specific software support; a PCL driver written for an HP printer will not support these plotters. PCL-based raster input available Summer 1990.

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## Technical Information

### Model 355

#### Performance Characteristics

Technology	Electrostatic
Media Width	914.4 mm (36 in)
Plot Width	864.0 mm, $\pm 3.6$ mm (34 in, $\pm 0.1$ in)
Toner Capacity	4 toner supplies, 5 litres (1.3 gal) each Black, cyan, magenta, yellow
Maximum Print Speed	3.0 cm per second (1.18 in per second)
Resolution	406 dpi
Maximum Accumulated Error†	$\pm 0.2\%$
Pin Electrodes	
<i>Configuration</i>	Dual array
<i>Diameter</i>	0.0060 cm (0.0024 in)
<i>Spacing</i>	0.00625 cm (0.0025 in)
Disk Size	40 megabytes
Front Panel	
<i>Logical Pens</i>	256
<i>Configurations</i>	4 user-definable, 1 factory default
<i>Palettes</i>	4 user-definable, 1 factory default
<i>Languages</i>	English, French, German
Interfaces	RS-232-C/CCITT V.24, HP-IB (IEEE 488-1978), Centronics parallel

#### Environmental Ranges

Temperature	
<i>Operating</i>	10 to 30 degrees C (50 to 86 degrees F)
<i>Storage</i>	-10 to 60 degrees C (14 to 140 degrees F)
Humidity	
<i>Operating</i>	30 to 80% RH‡
<i>Storage</i>	15 to 85% RH‡

#### Power Requirements

Voltage Requirements	
<i>Source</i>	100, 120, 220, 240 VAC
<i>Frequency</i>	50-60 Hz
Consumption	800 VA maximum

#### Physical Characteristics

Width $\times$ Depth $\times$ Height	1400 mm $\times$ 600 mm $\times$ 1030 mm (55.1 in $\times$ 23.6 in $\times$ 40.55 in)
Net Weight	311 kg (684 lb)
Shipping Weight	
<i>Plotter</i>	307 kg (675 lb)
<i>Rasterizer</i>	20 kg (44 lb)
<i>Accessories</i>	20 kg (44 lb)
<i>Toner</i>	19 kg (41.8 lb)
Shipping Dimensions	
<i>Plotter</i>	1535 mm $\times$ 755 mm $\times$ 1265 mm (55.12 in $\times$ 29.7 in $\times$ 49.8 in)
<i>Rasterizer</i>	584 mm $\times$ 546 mm $\times$ 425 mm (23 in $\times$ 21.5 in $\times$ 16.73 in)
<i>Accessories</i>	1041 mm $\times$ 406 mm $\times$ 330 mm (41 in $\times$ 16 in $\times$ 13 in)
<i>Toner</i>	432 mm $\times$ 356 mm $\times$ 305 mm (17 in $\times$ 14 in $\times$ 12 in)

#### Product Certifications

Safety Approvals	CSA certified, UL listed, complies with EN 60 950/09.87, GS(TUV) approved, NEMKO approved
Electromagnetic Interference	FCC Verified Class B, meets VDE 0871-B (FTZ 1046/84), SABS approved

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†At 23 degrees C (73 degrees F), 50 to 60% RH with HP approved polyester film.

‡Non-condensing (Note: Never operate the plotter in the presence of condensation or damage will occur to the writing head.)

## Ordering Information

HP Part Number	Description
C1620A	HP 7600 Series Model 355 A0/E-size electrostatic plotter

Note: Interface cables must be ordered separately.

### Accessories Included

User's Guide  
 Power Cord  
 Premium Grade Paper (one roll)  
 Pre-mixed Liquid Toners  
 (4; black, cyan, magenta, yellow)  
 Pre-moistened Cleaning Wipes  
 Writing Head Polish  
 Dry Cleaning Wipes  
 Media Stacker  
 Handheld Media Cutting Knife  
 Manual Media Cutter  
 Take-up Reel Spindle

## Supplies Available

Premium Grade Paper	
17276P	One roll, 914 mm (36 in) wide
Translucent Paper for Monochrome Plotting	
17268T	One roll, 914.4 mm (36 in) wide
Vellum	
17270V	One roll, 914.4 mm (36 in) wide
Polyester Film (Clear) for Monochrome Plotting	
17274F	One roll, 914 mm (36 in) wide
Polyester Film (Clear) for Color Plotting	
17284F	One roll, 914 mm (36 in) wide
Polyester Film (Matte) for Monochrome Plotting	
17272F	One roll, 914 mm (36 in) wide
Polyester Film (Matte) for Color Plotting	
17283F	One roll, 914 mm (36 in) wide
17278A	Black Toner; 5 litres (1.3 gal)
17242C	Cyan Toner; 5 litres (1.3 gal)
17243M	Magenta Toner; 5 litres (1.3 gal)
17244Y	Yellow Toner; 5 litres (1.3 gal)
17279D	Clear Dispersant; 5 litres (1.3 gal)
17290P	Writing Head Polish; 300 ml (10 oz)
92193N	Pre-moistened Cleaning Wipes
92193W	Dry Cleaning Wipes; thermal bonded wipes, 100/package, 102 x 102 mm (4 x 4 in)
92193G	Cleaning Gloves; 25/package

## Accessories Available

17291C	Handheld Media Cutting Knife with 36 replaceable blades
07596-60008	Manual Media Cutter Blades; 5/package
C1600-90000	Hardware Support Manual
C1622-60001	Take-up Reel Spindle 914 mm (36 in) wide

## Interface and Cable Requirements

System	Interface	Cable
HP Vectra PC with HP 24540A/B serial/parallel interface card or HP 24541A/B dual serial interface card using 9-pin connector	Serial	HP 24542G
HP Vectra PC with HP 24541A/B dual serial interface card using 25-pin connector	Serial	HP 17255M
HP Vectra PC with HP 24540A/B serial/parallel interface card	Parallel	HP 92219K
HP 9000 Series 300, 800	HP-IB	HP 10833B (2 m) HP 10833C (4 m)
IBM AT and compatibles	Serial	HP 24542G
IBM AT, PS/2, PC, PC-XT, and compatibles	Parallel	HP 92219K
IBM PS/2, PC, PC-XT, and compatibles	Serial	HP 17255D
Sun Workstation	Serial	HP 17255M
Apollo Workstation with SPE (Serial/Parallel Expansion) option and supplied adapter cable	Serial	HP 17255M
DEC VAX	Serial	HP 17255M

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For your nearest authorized HP dealer in the United States, call toll-free: 1-800-752-0900. For HP regional and worldwide offices, refer to the list below:

**United States:**

Hewlett-Packard Company  
4 Choke Cherry Road  
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(301) 670-4300

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Rolling Meadows, IL 60008  
(312) 255-9800

Hewlett-Packard Company  
5161 Lankershim Blvd.  
No. Hollywood, CA 91601  
(818) 505-5600

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2015 South Park Place  
Atlanta, GA 30339  
(404) 955-1500

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