- High-quality output
- Drafting capability
- Choice of A3/B** and A4/A* media sizes

- Six-pen carousel
- Plots on paper, transparency film, polyester film
- Plots using fiber-tip and liquid-ink pens
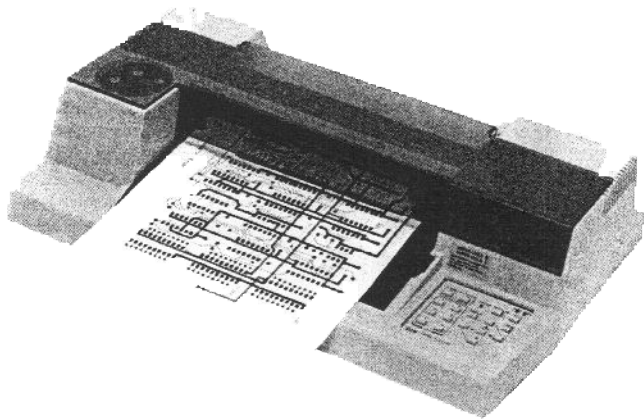
The HP 7475A is a low-cost plotter that provides the kind of graphics excellence and versatility you would expect to find in a much more expensive plotter. The HP 7475A produces fast, high-quality drawings for business, design, and measurement professionals.

With the HP 7475A, you have your choice of two media sizes — A4/A-size* for colorful report and presentation graphics, and A3/B-size** plots for PERT charts, schematics, engineering drawings, and design applications. You can switch chart sizes with the push of a button.

If you need a vertical format, you can use the front panel keys to rotate the chart 90 degrees. And if you need to digitize, you can do that from the front panel, too.

The HP 7475A accepts four different types of media — chart paper, glossy presentation paper, overhead transparency film and double-matte polyester film. And you have a choice of two different pen types — fiber-tip pens for paper and overhead transparencies and liquid-ink drafting pens for high-quality drawings on polyester film. Fiber-tip pens are available in ten colors and two tip widths. Refillable short-body drafting pens come in three different tip widths.

Applications
Business: The A3/B-size** capability of the HP 7475A makes it the ideal plotter for PERT charts, organization charts, flow charts, or small flip charts. And the HP 7475A produces colorful A4/A-size* charts for reports, meetings, and presentations.
Design: Perfect as an entry level drafting plotter or an inexpensive companion to your design system, the HP 7475A creates liquid-ink drawings on polyester film for frequently handled archival copies or check plots using fiber-tip pens on paper.
Measurement: The HP 7475A adds hardcopy graphics capability to intelligent instruments and instrument systems with an HP-IB (IEEE 488-1978) interface. Many systems (with or without display screens) can have the benefits of high-quality, hardcopy graphics plotted directly from measured data.

High-Quality Output
With an addressable step size of 0.025 mm (0.001 in.), the HP 7475A can plot up to 1000 points in a 1-inch line. When commanded to return to the same point with no pen change, the plotter achieves this repeatability within 0.1 mm (0.004 in.). Because of the outstanding resolution and repeatability, the HP 7475A produces straight, professional-quality lines.
* A4 Size is 210 x 297 mm; A Size is 8½ x 11 in.
** A3 Size is 297 x 420 mm; B Size is 11 x 17 in.

Special Programming Features
If you create your own graphics programs, you'll be glad to learn that the HP 7475A contains over 50 HP-GL (Hewlett-Packard Graphics Language) instructions to control such functions as arc and circle generation, and area fill in pie and bar charts. Plus, the HP 7475A has 19 internal character sets, including ISO European sets, Katakana, ASCII, and Roman 8 extensions.

Interface Options
The HP 7475A is easy to interface with most HP and non-HP computers because you have the choice of two interface options — either RS-232-C/CCITT V.24 or HP-IB (IEEE 488-1978). By adding an eavesdrop cable you can connect the HP 7475A in series with a computer and a terminal.

Graphics Software
The HP 7475A is supported on a wide variety of business and design graphics application packages for HP as well as non-HP computer systems. Details are available from any HP sales and service office.

Specifications
Resolution: Smallest addressable step size, 0.025 mm (0.001 in.)
Repeatability: with a given pen, 0.1 mm (0.004 in.); from pen to pen, 0.2 mm (0.008 in.)
Pen velocity (each axis): pen up, 50.8 cm/s (20 in./s); pen down, maximum, 38.1 cm/s (15 in./s); programmable, 1 to 38 cm/s in 1 cm/s increments
Acceleration: approximately 2 g's
Environmental range: operating, 0°C to 55°C; non-operating, −40°C to 75°C
Plotting area: x-axis, 258 mm (10.2 in.), A/B; 275 mm (10.8 in.), A4/A3; y-axis, 198 mm (7.80 in.), A; 192 mm (7.56 in.), A4; 414 mm (16.3 in.), B; 402 mm (15.8 in.), A3
Interfaces: HP-IB (IEEE 488-1978) implements the following functions as defined in IEEE 488-1978 — SH1, AH1, T2, TE0, LE0, SR1, RL0, DC1, DT0, L2, PP0 (listen only or address less than 7, otherwise PP2); RS-232-C/CCITT V.24, asynchronous serial ASCII with switch selectable baud rates of 75, 110, 150, 200, 300, 600, 1200, 2400, 4800, 9600. External clock input capabilities with intermediate baud rates of up to 9600 baud; 1024 byte buffer
Power requirements: source, 100, 120, 220, 240 V~ −10%, +5%; frequency, 48-66Hz
Size: height, 127 mm (5 in.); width, 568 mm (22.4 in.); depth, 367 mm (14.5 in.)
Weight: net, 7 kg (16.0 lb); shipping, approx. 11 kg (24.0 lb)
FCC: FCC certified to limits set for radio frequency interface when used with a class B computing device

Accessories Supplied
HP 07475-90001 Interfacing and Programming Manual
HP 07475-90002 Operation and Interconnection Manual
HP 07475-90003 Reference Card
Power cords and an assortment of pens and drawing media are also supplied with the plotters. The media size and destination.
NOTE: Interface cables are not supplied with the plotter. They must be ordered separately.

Ordering Information
Options
001 RS-232-C/CCITT V.24 (cable not included)
002 HP-IB (IEEE 488-1978) (cable not included)
HP 7475A Six-pen Graphics Plotter
Available from Instruments Direct 800-523-2121 (U.S. only)