

Companion Color Printers

Affordable High-Quality Color Printing for the Office

digital



Digital's Companion Color Printers are quiet, compact desktop printers that can help you create professional-looking documents—combining high-quality graphics with near-letter-quality text—quickly and economically.

The Companion Color Printers are available in two models: the LJ250, with DEC423 and RS232 serial interfaces, and the LJ252, with a Centronics-type parallel interface. So there is a Companion Color Printer that is fully-compatible with your Digital or mixed systems environment.

The Companion Color Printers employ the latest disposable cartridge (consisting of a printhead and ink supply) technology for high-quality text and graphics printing with easy operation and no user maintenance. If you're looking for a well-built, affordable color printer to meet all your hardcopy business and presentation graphics needs, look no further. The Companion Color Printers are the answer.

With the Companion Color Printers, you get the robust performance, exceptional reliability, and award-winning support that customers expect from Digital printers.

Highlights

- Prints high-quality color graphics and near-letter-quality text on paper and transparencies at an extremely affordable price
- Fast (167 characters per second burst, 90 characters per second throughput), Quiet (less than 45 dBA), Reliable (10,000 hour MTBF) operation
- Available in serial (LJ250) and parallel (LJ252) interface models
- Supports Digital systems through ANSI compatible text and color sixel protocols; prints ReGIS graphics files using host-resident VAX ReGIS to Sixels Converter (RETOS) software
- Supports IBM PCs and PC-compatibles under MS-DOS through the Hewlett-Packard HP-PCL protocol
- State-of-the-art technology (disposable cartridge – thermal ink-jet) provides up to 7 colors at 180 x 180 dpi resolution; up to 255 colors at 90 x 90 dpi resolution
- Compact and lightweight (less than 10 pounds), with attractive office styling to complement Digital desktop systems
- Easy-to-use; no routine maintenance required
- Full Digital support, with one-year carry-in service warranty and a variety of service options



Fast, Flexible Color Printing To Suit Your Needs Perfectly

If you need to print high-quality integrated text and color graphics, you'll find that pages printed by the Companion Color Printers look great in reports, presentations, letters, memos—virtually any type of business communication. Your text printing with the Companion Color Printers is beautiful, clear, crisp, near-letter-quality, while graphics display clear, bright colors with remarkable clarity and definition.

The Companion Color Printers operate by depositing tiny droplets of ink contained in the disposable ink cartridges. The disposable cartridges are designed to eject a drop of ink to a precise location on the page only as required (known as “drop-on-demand” technology). This technology makes the Companion Color Printers leaders in the marketplace by overcoming many of the technical (clogging and drying) problems that have, until now, plagued most inkjet systems. The Companion Color Printers can print up to seven pure colors—including black ink—and hundreds of mixed colors on a single page.

Credit also goes to the Companion Color Printers' print resolution, which—at 180 by 180 dots-per-inch—is better than many dot-matrix printers. And yet, this high quality text and graphics printing is performed quickly...and quietly.

The Companion Color Printers' print speed of 2-4 minutes per page for color graphics output (depending on image complexity) is fast but amazingly quiet at less than 45 dBA. For text printing, the speed is even greater: a speedy 167 characters per second (CPS) burst speed, 90 CPS throughput speed—and at this speed you get extremely quiet operation.

That's fast and quiet enough to keep your office running at peak productivity.

And, with the Companion Color Printers, you have the flexibility to choose the hardcopy medium best-suited to the job at hand.

The Companion Color Printers print text and graphics on paper and transparencies in the A (8.5" x 11") and European equivalent A4 (8.3" x 11.7") sizes, using single-sheet (friction) feeding or fanfold (sprocket) paper feeding.

Specially-treated paper and transparencies from Digital provide optimum results from the Companion Color Printers' ink-jet technology.

A Highly-Versatile Printer To Meet Your Most Demanding Needs

Without question, color graphics are becoming an increasingly popular and effective communications tool. Research demonstrates that shorter meetings, faster decision-making, and a more rapid analysis and understanding of large volumes of information are just some of the benefits realized by computer graphics users.

Users who make extensive use of color graphics on their video terminal, personal computer and workstation screens can now improve the quality of their reports and presentations by producing high-quality, full-color printed output with ease.

Effective Sales Manager
Sales in Excess of

Color Test demonstrating the "thickness" of solid/composite colors

Powerup Default BLACK

ABCDEFGHJKLMNPQRSTUVWXYZ0123456789~!@#\$%^&*()_+`-={}<>abcdefghijklmnopqrstuvwxyz

BLACK set with SGR(30)

ABCDEFGHJKLMNPQRSTUVWXYZ0123456789~!@#\$%^&*()_+`-={}<>abcdefghijklmnopqrstuvwxyz

RED set with SGR(31)

ABCDEFGHJKLMNPQRSTUVWXYZ0123456789~!@#\$%^&*()_+`-={}<>abcdefghijklmnopqrstuvwxyz

GREEN set with SGR(32)

ABCDEFGHJKLMNPQRSTUVWXYZ0123456789~!@#\$%^&*()_+`-={}<>abcdefghijklmnopqrstuvwxyz

YELLOW set with SGR(33)

ABCDEFGHJKLMNPQRSTUVWXYZ0123456789~!@#\$%^&*()_+`-={}<>abcdefghijklmnopqrstuvwxyz

BLUE set with SGR(34)

ABCDEFGHJKLMNPQRSTUVWXYZ0123456789~!@#\$%^&*()_+`-={}<>abcdefghijklmnopqrstuvwxyz

MAGENTA set with SGR(35)

ABCDEFGHJKLMNPQRSTUVWXYZ0123456789~!@#\$%^&*()_+`-={}<>abcdefghijklmnopqrstuvwxyz

CYAN set with SGR(36)

ABCDEFGHJKLMNPQRSTUVWXYZ0123456789~!@#\$%^&*()_+`-={}<>abcdefghijklmnopqrstuvwxyz

BLACK set with SGR(39)

ABCDEFGHJKLMNPQRSTUVWXYZ0123456789~!@#\$%^&*()_+`-={}<>abcdefghijklmnopqrstuvwxyz

Reset to Black with SGR(0)

Choose the Companion Color Printer to provide high quality, exciting color hard-copy output from your color terminal, personal computer or workstation in the Digital or non-Digital computing environment.

Two Models for Easy Connection to Different Host Systems

The LJ250 Companion Color Printer is the serial interface version which connects to Digital systems through a DECconnect MMJ connector and cable, both included. This model also sports a 25-pin RS232 serial port for easy connection to standard serial interface cables.

The LJ252 Companion Color Printer, the parallel interface version, connects to IBM PCs, PC-compatibles, and other non-Digital systems through a standard Centronics-type parallel connector.

Extensive Software Support Gets You Up and Running Immediately

Abundant software support makes the Companion Color Printers highly-capable, highly-compatible color printers: the perfect choice for users of the VT240, VT241, VT330, and VT340 graphics video terminals, VAX-mate systems, Digital workstations, and other systems.

With built-in support for the ANSI/sixel and color sixel protocols, the Companion Color Printers are immediately compatible with the large body of software written for popular Digital printers such as the LA75, LN03, LA210, LA50, and LA100.

Plus, the Companion Color Printers deliver full printing support for ReGIS-based graphics applications through the newly-developed RETOS (ReGIS to Sixels) host-based software.

RETOS, a layered software product that runs on VAX, MicroVAX, and VAXstation hosts, converts ReGIS files to sixel files. These sixel files can be printed on the Companion Color Printers as full-size page images, in either portrait or landscape modes.

Because RETOS was designed with the Companion Color Printers in mind, it takes full advantage of their high-quality, high-resolution printing capabilities, supporting up to 7 colors at 180 x 180 dpi, and up to 255 colors at 90 x 90 dpi resolution.

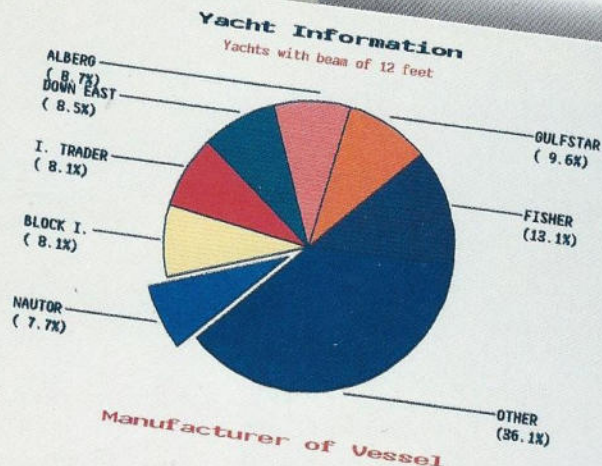
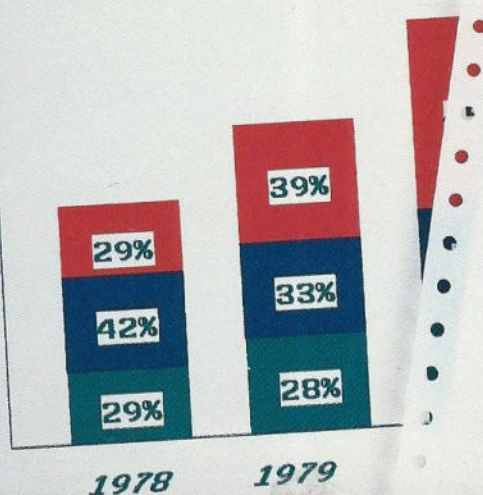
The Companion Color Printers also offer built-in support for the Hewlett-Packard HP-PCL protocol. So, extensive software support from a library of Hewlett-Packard applications, and many popular third-party software packages, is available now, right off the shelf. This allows the user to utilize these packages immediately on the VAXmate, IBM-PCs or PC compatibles.

In fact, the Companion Color Printers are the only desktop color printers on the market that provide complete support for both Digital software and other applications. And they are the only printers in their class that contain the DEC Technical Character Set, as well as the ISO, NRC, DEC Supplemental, and IBM Character Sets.

The Companion Color Printers are also supported by numerous operating systems and applications software packages, including: VMS and Hardcopy UIS operating systems and Hewlett-Packard applications software packages.

The Companion Color Printers are two color printers that can satisfy even the demanding requirements of multi-vendor environments.

Product 1 Provided Most





Product 1 Price

UNIT	QTY	PRICE	TOTAL
100	100	100	10000
200	200	200	40000
300	300	300	90000
400	400	400	160000
500	500	500	250000

Advanced Printhead Technology Is Effortless to Live With

The Companion Color Printers' ink cartridges are integrated units that incorporate the ink supply system and printheads. Thus, the printhead is replaced whenever you replenish the ink supply system. It's a clean, simple, snap-out/snap-in procedure that takes just seconds.

This advanced design eliminates the need for unscheduled printer maintenance by keeping the Companion Color Printer running at its very best. And you don't have to replenish ink supplies any more often than necessary, because separate ink cartridges are used for color and black inks.

Digital Accessories and Supplies Ensure Convenience, Top Performance

A variety of high-quality accessories and supplies are available for the Companion Color Printers from Digital.

When you choose accessories, supplies, and consumables from Digital, you can be confident that your printer will operate at peak performance.

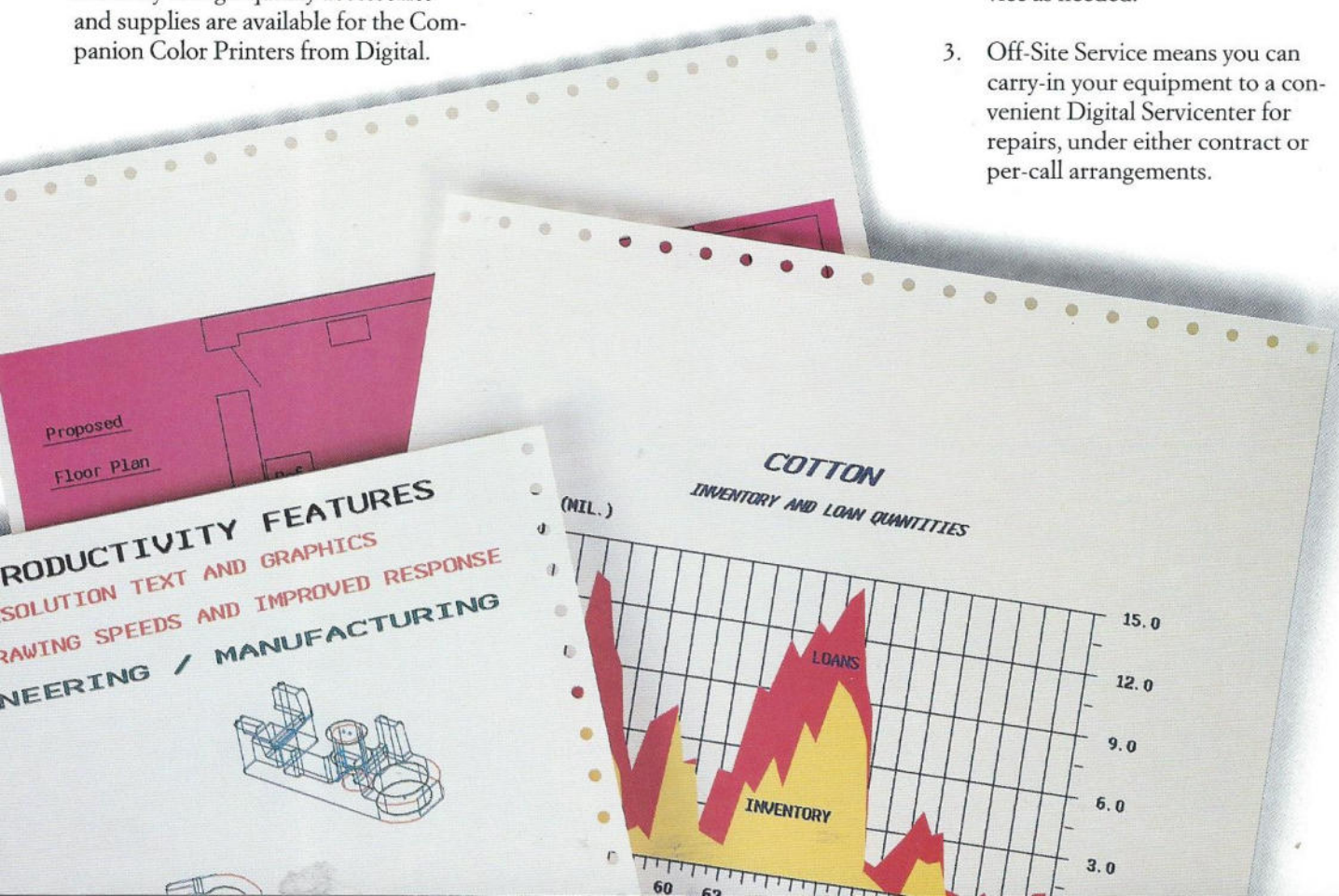
These accessories and supplies include convenience items such as a paper catcher, dust cover, and acrylic desk stand, as well as consumables such as ink cartridges and specially-coated paper and transparencies.

Remember, Digital carefully matches its accessories and supplies to its printer products—ensuring, for example, that the formulation of the ink in the Companion Color Printers' printhead is perfectly-matched to the paper and transparencies on which that ink will be used so that the highest quality and reliability is achieved.

Digital Service and Support Are Ready When You Are

In the unlikely event that your Companion Color Printers require unscheduled maintenance beyond the standard one-year carry-in service warranty period, Digital offers several levels of support from qualified service technicians trained in the unique maintenance requirements of thermal ink jet color printing equipment:

1. DECservice and Basic Service contractual agreements give you the opportunity to choose the response time that best meets your needs. All parts, labor, and installation of field change orders are covered.
2. Digital Per-Call Service provides a noncontractual service alternative if you prefer to pay for service as needed.
3. Off-Site Service means you can carry-in your equipment to a convenient Digital Servicenter for repairs, under either contract or per-call arrangements.



Specifications

Print Characteristics:

Print Method: Thermal ink jet drop-on demand

Printing Mechanism: 2 disposable ink cartridges (1 black, 1 color)

Text Print Speed:

Black: near-letter-quality, 167 cps (burst); 90 cps (throughput)

Color: near-letter-quality, 55 cps (burst); 20 cps (throughput)

Graphics Print Speed: 2-4 minutes per page (depending on image complexity)

Print Density: 180 x 180 dpi (text and solid color graphics)

Character Spacing:

Char. width:	Char. per inch:	Char. per line:
Standard	18	144
”	12	96
”	10	80
(Double Width is DEC mode only)		
Double	9	72
”	6	48
”	5	40

Line Spacing: 2,3,4,6,8, or 12 (lines per inch)

Character Printing Attributes:

Color, true descenders, superscript, subscript, bold, italics, underline, double underline, overline, strike-through

Page Printing Attributes:

Margins, tabs, printhead positioning, autowrap, unidirectional/bidirectional printing, transparency mode

Color Graphics Mode:

Solid Colors (180x180 dpi): black, cyan, magenta, yellow, red, green, blue

Half-tone Dithered Colors [90x90 and 90x45 dpi (DEC mode only)]:

255 colors, HLS system or RGB system

Aspect Ratio: 1:1, 2:1, or 2.5:1

Digital Character Sets:

VT100, US ASCII, DEC Technical, ISO Supplemental, 14 National Replacement Character Sets (NRCS), DEC Supplemental

PCL Character Sets:

Roman-8, PC-8, ECMA-94, IBM-EUROPE, National Character Sets

Character Code:

Bit serial, character asynchronous, consisting of a start bit (space), 7 or 8 data bits (1 = mark, 0 = space), an optional parity bit, and a stop bit (mark)

Communications Baud Rates: 4800 or 9600 bps

Buffer Control: XON/XOFF or DTR

Buffer Size: 2K bytes of input buffer space

Power Requirements:

Voltage/Frequency: 48-66 Hz; 100, 120, 220, 240 VAC (plus or minus 10%)

Interface Signals: LJ250 – Standard EIA RS232C/RS423 serial interface signals
LJ252 – Standard Centronics parallel interface signals

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Recommended Print Supplies:

LJ25X-AA – Color ink cartridge
LJ25X-AB – Black ink cartridge
LJ25X-AC – Z-fold coated paper, Size “A”, 250 sheets per carton
LJ25X-AD – Z-fold coated paper, Size “A4”, 250 sheets per carton
LJ25X-AE – Single sheet transparency, Size “A”, 50 sheets per carton
LJ25X-AF – Single sheet transparency, Size “A4”, 50 sheets per carton

Models:

Serial: LJ250

Parallel: LJ252

Connectivity/Adaptor:

To VT100 family – H8571-A
To VT200 family – H8571-B
DECmate II, III – H8571-B
Professional 325,350,380 – H8571-B
VAXstation II – H8571-B
To Rainbow 100 Series – H8571-D

Operating Environment:

Printer: DEC 102 Class B

Media: Temperature Range: 15-30 degrees C (54.5-86 degrees F)
Moisture Range: 20-80% relative humidity (paper)
20-70% relative humidity (transparency)

Reliability/Service:

Cartridge Life: Black – 1 million characters @ 90 dots per character (dpc)
Color – 325,000 characters @ 90 dpc
(2 removable cartridges consisting of ink supply and nozzles)

MTBF (Mean time between failures): 10,000 hrs @ 50 power-on hours per week,
5% duty cycle, 50% print density

Certifications:

Safety: UL, CSA, VDE, GS
Electromagnetic Interference: FCC B, VDE 0871, VDE 0875

Physical Characteristics:

Height: 3.65" (92mm)
Width: 17.50" (444mm)
Depth: 12.25" (311mm)
Weight: 10 lb (4.5kg)
Power Cord: 4.06 meters (13.33 feet) long
A-weighted sound power level 5.4 bels
Front Bystander Sound Pressure Level <45 dBA per ANSI S12.10

Protocols: Digital and HP/PCL

To Order: Contact your local Digital Sales Representative, Authorized Distributor,
or call DECdirect at 800-DIGITAL.
