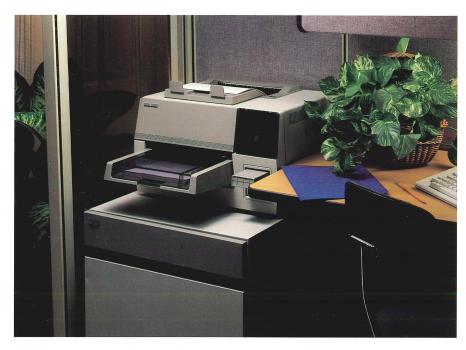digital

Laser Printing for Your Office

The solution to your office printing needs has arrived. The newest addition to Digital's series of nonimpact printers, the LN03, delivers the speed, the quality, and the versatility you would expect from a number of different printers—all in one compact package. Measuring a mere 13 by 16 by 21 inches, the LN03 prints eight pages per minute—a speed you'd find with much larger system printers. With a print resolution of 300 by 300 dots per inch, you have the same caliber output you'd expect from a letter-quality printer. And with the variety of font styles and the graphics capability available on the LN03, you get the flexibility of the finest dot-matrix printer. All this adds up to the best that today's printing technologies have to offer with the *silent* advantage of nonimpact printing.

Highlights

- Prints up to eight pages per minute (approximately 333 characters per second letter-quality, 2,500 characters per page).

- Accommodates a maximum input of 250 sheets and a maximum output of 250 sheets with automatic page sequencing.

- Prints in both landscape (horizontal) and portrait (vertical) mode.

- Prints up to 150 printable (excluding positioning commands) characters per line with a resolution of 300 by 300 dots per inch.

- Accepts either precoded ROM fonts or programmable RAM cartridges for customized fonts (available from Digital). Fonts may also be downline loaded from the host system.

- Accommodates ANSI A and European A4 cutsheet paper (plain or letterhead), or transparencies for creating overheads.

- Operates at less than 55 decibels, and is certified for operation in open office environments.

- International design includes multinational character sets, paper sizes, and international operator controls.

The LN03 – A Small Laser Printer Designed to Meet Big Printing Needs

The LN03 is a tabletop, nonimpact, electronic page printer and controller employing electrophotographic imaging and xerographic printing. Designed with the demands of a busy office in mind, the LN03 provides cost-effective, high-quality printing services for small groups of users with printing needs of 3,500 pages per month. Applications that require fast turn-around and letter quality – such as reports, internal documents, newsletters, forms, labels, and statements – are a perfect match for the LN03 capabilities. And if you want to illustrate your reports, the LN03 can integrate business graphics and text on a single page. Print your output on transparencies instead of paper and you have a set of overheads for business presentations.

The Laser Printing Process

Because the laser printing process is nonimpact, the noise level is significantly lower than impact printers – less than 55 decibels. The printing is done by charging the print belt. Portions of the charge are removed by the laser beam, leaving a latent charge image on the belt. The latent charged areas then attract a dry ink toner that is transferred to the paper. A heated roller fuses the image permanently to the paper. The result is a clear, crisp, 300-by-300 dot-per-inch image resolution, with each page always as sharp as the first. And you don't sacrifice speed for print quality. At eight pages per minute, the LN03 prints about 10 times faster than many letter-quality printers.

Flexible Paper Handling

The LN03 uses ordinary cut sheet paper eliminating the time-consuming job of bursting and trimming that you have with common fanfold or pinfeed type paper. The LN03's integral 250-sheet paper cassette means you can run one or more large print jobs without reloading paper, and the 250-sheet collated output means you don't have to spend time sorting pages when the job is done. The LN03 does it for you—from printer to distribution in one step. The LN03 can accommodate both standard ANSI A and European A4 paper in a variety of weights ranging from 16 to 24 pounds. The LN03 can also handle preprinted single-part forms, transparencies, and labels.

Variety of Fonts

Some typestyles are more appropriate for specific business applications than others. That's why the LN03 printer offers such a wide variety. You can choose from a number of font packages designed for Digital by a leader in the typeface industry—Compugraphic Corporation—for use in commercial, technical, scientific, and publishing applications. The LN03 comes with three fonts including multinational as well as technical character sets. If you want to mix type styles and point sizes, the LN03 can print up to 24 fonts per page.

To expand memory or add new fonts, there are two cartridge receptacles for inserting programmable RAM or pre-coded ROM cartridges available from Digital. Using a software program such as DECpage, font styles can also be downline loaded from the host system's font library. If you want a unique set of symbols and characters for your business use, Digital will create customized logos and signatures for you as an extra service.

Works in a Number of Configurations

The LN03 includes a standard serial RS232 inerface that allows for easy connection to Digital's minicomputer and microcomputer systems. The LN03 offers an exceptionally low per-user cost when bought as a shared output device for MicroPDP-11 or Microvax computers, or for a cluster of personal computers. The LN03 works in a number of operating system environments including VMS, ULTRIX, RT-11, RSX-11, and RSTS systems and personal computer operating systems such as MS*-DOS and POS. Software support is also enhanced by LN01 laser printer, LQP02 Letter-Quality printer, and LA100 dot-matrix printer compatibility modes. This compatibility broadens the software base to include not only Digital, but many third-party word processing and graphics packages written for PDP-11, VAX, Professional, Rainbow, and DECmate computers. The LN03 also prints simple graphics (up to 150 dots per inch) using sixels which enable it to print most images generated by software supporting this protocol.

Easy Operation and Low Maintenance

The LN03 printer is designed for "pushbutton-easy" operation. International symbols and handy operator cards clearly explain how to operate the printer and handle minor problems. Status indicators identify the need for toner, paper, or other scheduled maintenance. The only operator control is the online-offline switch, located on the front panel for easy access. The detachable power cord can be plugged in to any wall socket.

The LN03 printer is also built for easy maintenance. With the printer self-test diagnostics and customer replaceable toner and print belt, few service calls are needed. And you save money by replacing only the components that wear out—instead of throwing out the good parts with the bad. With a normal operating cycle of 3,500 pages per month, the LN03's reliability speaks for itself.

Specifications

Performance

Printing Speed	8 pages per minute maximum (about 333 cps letter-quality, 2,500 characters per page)
Recommended Duty Cycle	3,500 pages per month
Paper Feed	Adjustable 250-sheet cassette (16-to-24 lb paper)
Paper Output	250 sheets sequenced
Paper Sizes Standard ANSI A	21.6 by 27.9 cm (8.5 by 11 in)
European A4	21 by 29.7 cm (8.3 by 11.7 in)

Type Characteristics

Font	Weight	Portrait Orientation	Landscape Orientation
Courier	Roman	10-point/10-pitch	6.7-point/13.6-pitch
Elite	Roman	10-point/12-pitch	
Technical	Roman	10-point/10-pitch	6.7-point/13.6-pitch
Technical		10-point/12-pitch	
Resolution		300 by 300 dots per inch, up to 150 dots per inch (pixel graphics)	
Margins/Tabs		Variable	
Print Mode		Simplex printing (printing on one side of paper only). Duplex printing (manual)	
VT100 Line Drawing Set			

Communications

Interfaces	CCITT RS232/V. 24 Serial Interface
Power cord length	3 m (10 ft) detachable

Power Requirements

Voltage/Frequency	85–132 V at 50/60 Hz 187–264 V at 50/60 Hz
Controller	Band buffer technology
Power consumption	1 kVA max
Heat Dissipation	3400 Btu/hr

Physical Characteristics

Height	33.1 cm (13 in)
Width	53.4 cm (21 in)
Depth	40.7 cm (16 in)
Weight	28 kg (66 lbs)

Specifications (continued)

Operating Environment

Temperature range	10 to 32°C (50 to 90°F)
Storage temperature	−29 to −43°C (−20 to −110°F)
Relative humidity	20% to 80%
Dewpoint temperature	2°C (36°F)
Wet-bulb temperature	25°C (77°F)
Operating altitude	1.5 km (9,504 ft)
Noise level	Less than 55 dB

Regulatory Compliance

	CSA-22.2 No.154, IEC-380, VDE-0804, 0806, 0836, UL-478, VBG 93 (part of VDE 0836)
EMI/RFI	FCC Class B, VDE 0871, 0875

Models

LN03-A2	100/120-V 50/60-Hz Shipaway Kit includes: 2 toner cartridges, 1 OPC cartridge, ac power cord, 1 toner collection bottle, 1 package (250 sheets) A4-size paper
LN03-A3	220/240-V 50-Hz Shipaway Kit includes: 2 toner cartridges, 1 OPC cartridge, 1 toner collection bottle, 1 package (250 sheets) A4-size paper.

Over 25 versions of the LN03 are available for the countries listed below. Country kits include the appropriate documentation and power cord.

U.S., U.K., Ireland, Canada, Australia, and New Zealand (English); Canada (French Canadian, English); South America (Spanish, Portuguese); Belgium (Flemish); Denmark (Danish); Finland, Suomi (Finnish); Germany, Austria (German); Holland (Dutch); Italy (Italian); Switzerland (French, German, Italian); Sweden (Swedish); Norway (Norwegian); France (French); Spain (Spanish); Israel (Hebrew); Portugal (Portuguese). Contact your Digital Sales Representative for the correct order code.