

460



Integral Data Systems 460

Paper Tiger 460
Integral Data Systems, Inc.

Introducing quality print at matrix speed and price.

Until now, you could pay thousands for a slow, letter-quality character printer. Or hundreds for a dot matrix printer, giving up print quality for speed and price.

But that was before Paper Tiger™ 460 offered you a better choice.

The new Paper Tiger 460 is the first matrix printer with high-density dot matrix characters plus high speed. At a low price.

The secret? A unique nine-wire, staggered matrix head provides overlapping dots in both horizontal and vertical planes. The result is dense, high-quality characters you'll be proud to show off.

What's more, Paper Tiger 460 gives you a combination of features simply not available on any other printer, at any price. Like bi-directional, logic-seeking printing at speeds in excess of 150 cps. Microprocessor electronics, with field-installable character sets. Proportional spacing. Automatic text justification. DotPlot™ high resolution graphics option. RS232 and parallel interfaces. And more.

Integral Data Systems stands ready to provide the performance printers ideally suited to your needs. The IDS 460, offers features you won't find elsewhere.

Automatic proportional spacing, word processing systems, plus the capability of 84 by 84 dots per inch.

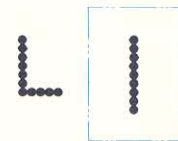
Paper Tiger 460 Print Sample

But its most important feature is high reliability. The Paper Tiger 460 is designed to be tough and dependable. It has rugged, stepper-motor head and paper drives. A new rugged ballistic-type print head. And its simple, chassis-mounted cartridge ribbon lasts up to four times longer than cassette or spool ribbons.

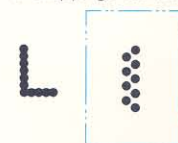
All this means that Paper Tiger 460 is perfect for word processing, data processing, or electronic mail. It's also perfect for anyone who requires the flexibility of a matrix printer but wants superior quality printing. Without trading off speed or price.

Get your paws on the Paper Tiger 460 and join the tens of thousands of satisfied Integral Data Systems users!

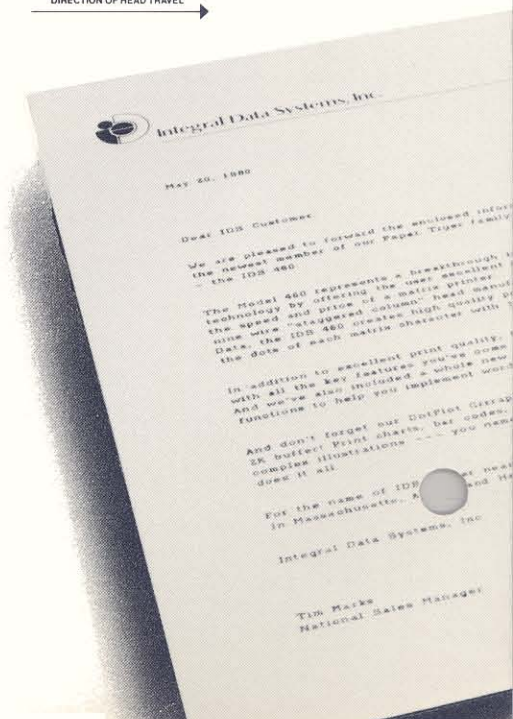
Conventional Dot-Matrix Printing



Paper Tiger 460
Overlapping Dot-Matrix Printing



DIRECTION OF HEAD TRAVEL →



Specifications

Printer

- Controller:** Microprocessor controller with RS/232C and Centronics-compatible interfaces.
- Printing Diagnostics:** Automatic power-on internal diagnostic. Built-in, operator-initiated self-test prints repeating alphanumeric pattern.
- Print Speed:** In excess of 150 cps in proportional mode, and 110 cps in mono-spaced mode. Enhanced (double width) characters print at one-half normal speed.
- Paper Width:** Maximum of 10.5 inches to minimum of 1.75 inches, including pinfeed holes.
- Paper Feed:** Pinfeed or fanfold.
- Paper Type:** Plain paper. Up to 6-part forms.
- Paper Drive:** Stepper-motor-driven pinfeed tractor. Slew rate of 5.5 ips.
- Forms Control:** Eight switch-selectable form lengths and automatic perforation skip. Top-of-form control by operator (off-line) and ASCII FF control code (on-line). Arbitrary form lengths are software selectable.
- Line Spacing:** Six or eight lines per inch, switch selectable. Arbitrary line size spacing is software selectable.
- Character Format:** 24 x 9 dot matrix with overlapping horizontal and vertical dot formation.
- Character Set:** Full 96 ASCII characters with upper and lower case. Additional resident sets optional.

Character Sizes:

.09 inch high, 10, 12, and 16.8 characters per inch, plus enhanced (double width) characters at each density.

Ribbon:

Cartridge-type ribbon with 36-yard mobius loop, biased routing for increased ribbon life.

Print Head:

Rugged ballistic-type design.

DotPlot™ Graphics:

High resolution raster graphics with 84 x 84 dots per inch, horizontal/vertical resolution. Each of seven head wires is addressable by one bit of each byte sent in graphics mode, giving the user total control over all dots on a page. Includes expanded buffer.

Interface

Electrical:

Both serial RS/232C, with handshake control via Data Terminal Ready (DTR) signal or Xon/Xoff protocol, and Centronics functionally compatible parallel interface.

Connector:

25-pin male EIA (Cinch DB25P or equivalent). Interface cable optional.

Serial Data Format:

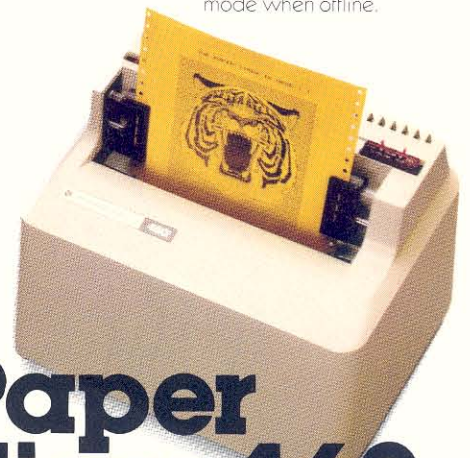
ASYNCR bit serial: 1 start, 8 data/parity, 1 or 2 stop bits.

Line Buffering:

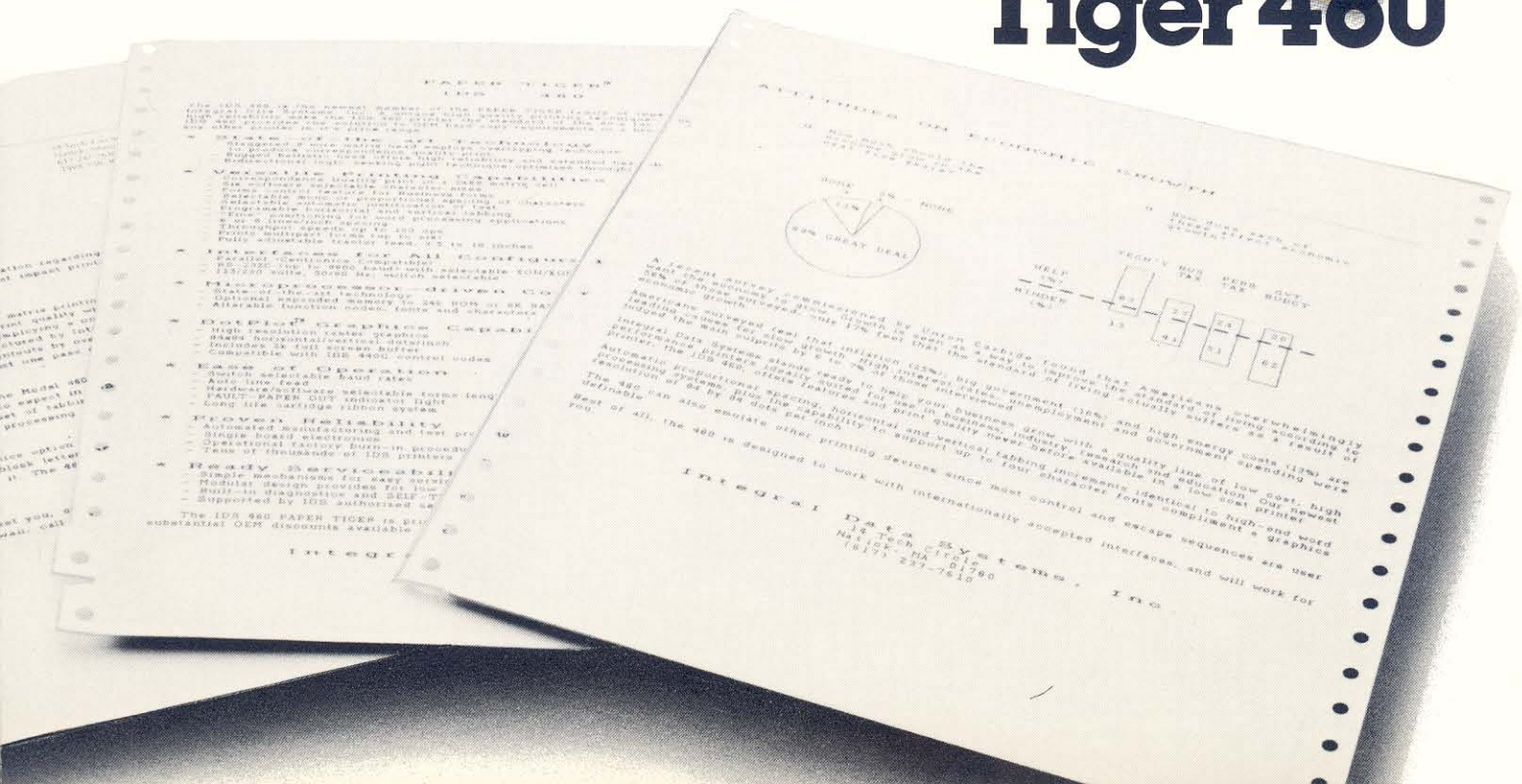
Automatic multiple line buffering standard; graphics option provides expanded buffer.

Operator Controls/Indicators

- Power Switch:** Switch located on rear panel for AC power.
- Power On Indicator:** Illuminates when AC power is applied.
- Online/Offline/Forms Set:** Switches printer online or offline. Also allows for form adjustment using form/line feed switch.
- Form/Line Feed Switch:** When printer is offline, causes line feed or form feed when toggled. When printer is in forms set mode, used to adjust form position incrementally up or down.
- Online Indicator:** Indicates online or offline condition.
- Fault/Paper Out Indicator:** Illuminates when a fault condition is detected or an out-of-paper condition exists.
- Self Test Switch:** Puts printer in self-test printing mode when offline.



Paper Tiger 460



Programmable Control (ASCII Control Codes)

(Some control code functions require the "Expanded Function" switch to be on.)

Printer Control Functions:

Standard ASCII control codes are used to perform printer functions such as:

- ☐ line feed
- ☐ form feed
- ☐ vertical tab
- ☐ horizontal tab
- ☐ carriage return
- ☐ select enhanced or normal text mode
- ☐ select graphics mode
- ☐ select character density
- ☐ select autojustification mode
- ☐ select proportional or fixed spacing
- ☐ select alternate character sets
- ☐ select/deselect printer to receive data.

Printer Parameter/State Definitions:

Via use of "escape" sequences (ASCII "ESC" character followed by specific data characters), the current printer state can be further modified as follows:

(Note: Vertical positioning is in 1/48th inch increments; horizontal positioning is in 1/120th inch increments.)

- ☐ Set line increment sizes, positive or negative.
- ☐ Set right and left margins.
- ☐ Set vertical and horizontal tab positions.
- ☐ Set forms length and perforation skip size.
- ☐ Set absolute horizontal position for next character in line character position or inches.
- ☐ Set absolute vertical position in page line position or inches.
- ☐ Set intercharacter spacing.

Configuration Switches

Set certain default (power-up) parameters, most of which are subsets of functions which can be altered by host-software generated control code sequences.

Serial Baud Rate And Parity:

Four switches select rate of 300, 1200, 2400, or 9600 baud and odd, even, or no parity.

Default Character Size:

Two switches specify default characters of 8.4 (enhanced), 10, 12, or 16.8 cpi characters.

Forms Length:

Three switches select one of eight forms length: 3, 3.5, 4, 5.5, 8.5, 11, 12, or 14 inches.

Auto Perforation Skip:

One switch selects an automatic 1-inch perforation skip at end of form.

Auto Line Feed Switch:

One switch selects an automatic line feed with carriage return.

Lines/Inch Switch:

One switch selects 6 or 8 lines per inch.

Expanded Function:

One switch selects expanded control code functions and enables external software control of printer parameters via ASCII control code sequences.

Mono Proportional Spacing:

One switch selects mono or proportional spacing mode.

Physical

Dimensions:

15.75"W x 12.95"H x 12.5"D.
(40 cm W x 31.1 cm H x 31.8 cm D)

Weight:

23 lbs. (10.4 kg)

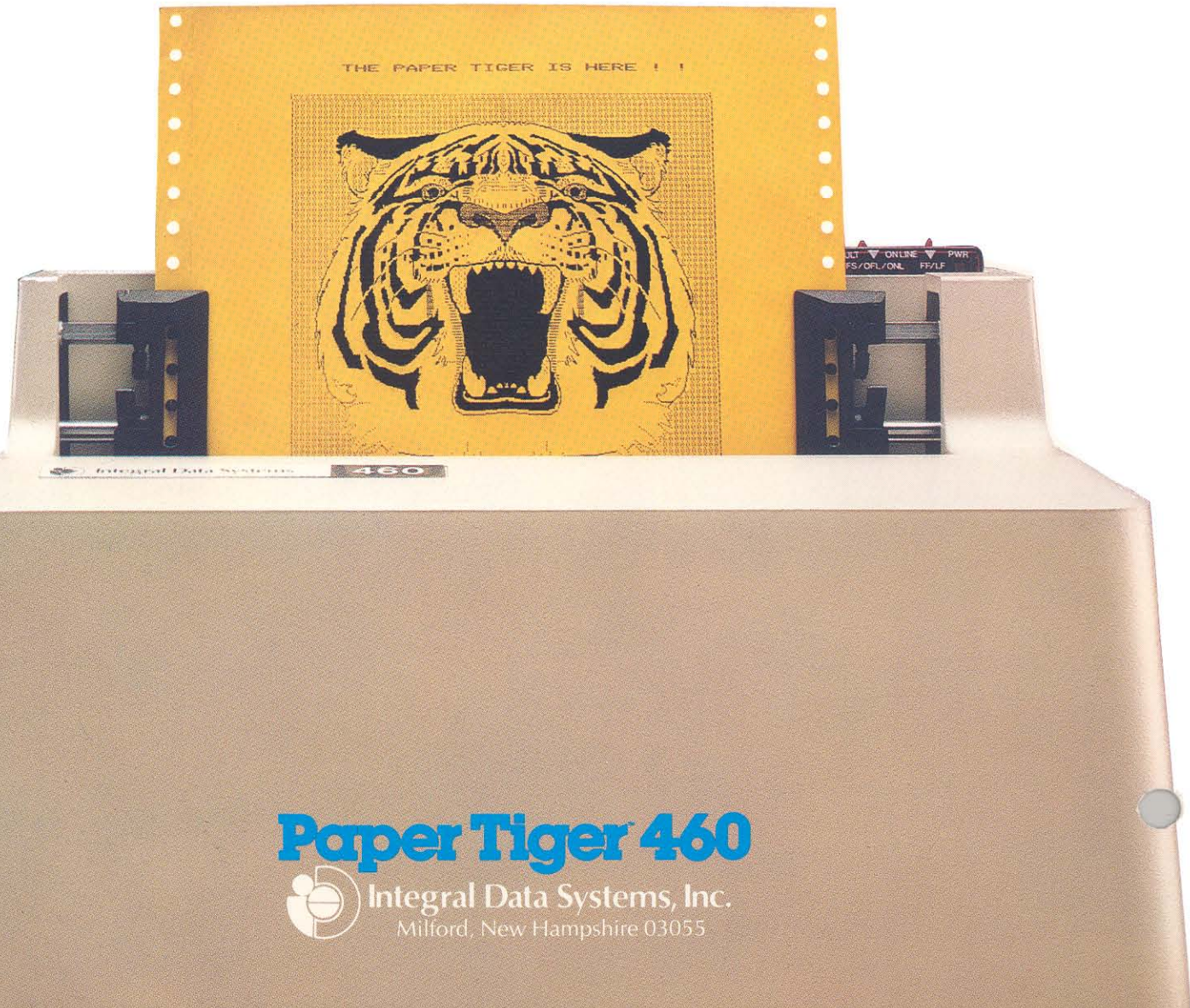
Power:

115/230 VAC, 50/60Hz. Voltage is switch selectable.

All specifications subject to change without notice.

Call toll-free 800-258-1386.

(In New Hampshire, Alaska, and Hawaii, call (603) 673-9100.)



Paper Tiger 460



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