

Product specifications

PRINT-AREA CAPABILITY

Width: 0.9 in. (22.86 mm) up to 2.8 in. (71.12 mm) per printhead. For wider applications, multiple imagers can be stitched together

RESOLUTION AND SPEED

286 DPI at 200 fpm
204 DPI at 300 fpm
129 DPI at 500 fpm
90 DPI at 650 fpm

PRINTER CONTROLLERS

DPI's Raptor (RIP) Printer Controller

DPI's Raptor Print Controller is the cornerstone for all of DPI's high-speed variable data printing systems. The Raptor Series Printer Controllers offer many features and benefits. For example:

- A true graphical user interface
- The ability to load and print over 4000 fonts and logos at a time
- Rack mountable smaller footprint more compact design
- Can run multiple print systems as one unit or individually
- Ethernet compatible easily networked
- Advanced system integration with "Read-and-print" and "Print Lookup" capability
- Dynamic product development with ongoing upgrades for added features and capabilities

Specifications

- 90 - 220 VAC ~ 6 Amp., 50Hz/60Hz
- Operating Environment: 40°F to 105°F (5°C to 40°C); 15% to 90% RH non-condensing
- Outside dimensions: Length 17" X Width 3.5" X Depth 14" & Rack mountable
- Inputs: Encoder -2, Mark sensor -1, Multi -1, I/O -1
- Multi RIP communication: Ping in & out of each RIP to have a chain of Controllers all with the same data input.
- Operating System: Industrial Windows XP embedded
- Fonts: Any TrueType or Adobe Type 1
- Native Barcodes: 3 of 9, Interleaved 2 of 5, Code 128, Codabar, UPC A, EAN 13, EAN 8, PostNet & Planet Barcode, MSI, Plessey, 2D Barcodes (Data Matrix, PDF 417)

Numbering, bar-coding, serialization, logos and can print

up to 4,000 loaded conditional bitmaps.
Read-print interface with optional camera reader (barcode or OCR) for input source and data base lookup
Data Formats: ASCII Text, Fixed Length records & custom
Data Sources: Fixed (no data source), ethernet, Host/LAN, floppies, CDs, USB port for flash drives & removable hard discs.

DPI's Winlabel Xpress® design-layout Software

- Fonts: Any TrueType or Adobe Type 1
- Native Barcodes: 3 of 9, Interleaved 2 of 5, Code 128, Codabar, UPC A, EAN 13, EAN 8, PostNet & Planet Barcode, MSI, Plessey, 2D Barcodes (Data Matrix, PDF 417)
- Numbering, bar-coding, serialization, logos and can print up to 4,000 loaded conditional bitmaps
- Variable data rotation up to 360° in 90° increments
- True graphical user interface
- Font selection with font preview, data-file grids, true per-page print preview (including all object types: barcodes, variable bitmaps, etc.) with record scrolling ability
- Data Formats: ASCII Text, Fixed Length records, custom & compatible graphics
- Data Sources: Fixed (no data source), ethernet, Host/LAN, flash drive, removable hard discs and floppies.
- Proofs to any Windows printer

POWER REQUIREMENTS

110 To 220 VAC
50-60 Hz

WORKS WITH

Web and sheet-fed presses and transports, collators, converting equipment, material -handling transports

INK TYPES

Available in the following colors: black, red, green, blue and invisible.

UV-curable ink (Requires UV curing equipment. Corona treating may be required for some low-dyne-level substrates)

INK DELIVERY

Standard bulk-ink delivery, 1 liter.

STOCKS AND SUBSTRATES

Papers, films, plastics, vinyls, mylars, tag stocks, label stocks, fabrics, foils, metals.

DOD 256V

get MAXIMUM substrate flexibility



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We drive variable printing

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Company profile

In 1986, company president Jack Farr founded Digital Print, Inc. (DPI) and created the company's first product out of his home. He did it with little more than ingenuity and a vision: to build a variable data printer controller that was better, faster and more affordable than anything else on the market.

More than 20 years later, DPI is still an innovator in leading-edge, affordable variable data printing solutions. From our very first product, an ion deposition print system sold to the National Security Agency, we've offered unsurpassed value and support by combining our proprietary printer controllers and software with leading print technologies to meet a variety of demands. We're proud to offer the largest portfolio of variable data solutions to meet your print needs.

When an electrical fire destroyed our first manufacturing facility in 2001, we refused to let it affect our customer commitments. Equipment was salvaged, new supplies were purchased, and orders were met from a new, temporary location.

Today, DPI is housed in a state-of-the-art manufacturing facility on the grounds of MotorSport Ranch-another innovation of its kind.

DPI is your one stop shop for variable printing systems. We offer the widest range of variable printing solutions to fit any budget, printing technology or application need. We are the industry experts with more than 20 years of experience building and integrating customized variable data solutions on nearly every make of flexo or sheet-fed press, collator and offline transport. We seamlessly integrate our reliable, high-resolution variable data printing system with your flexo or sheet-fed presses and collating and conveying systems, broadening the versatility of your equipment and strengthening your product portfolio.



Product portfolio

Print more, on more - ideal for films, foils, coated stocks and other synthetic substrates.

FLEXIBLE

- Print on a wide range of substrates with Spectra piezoelectric, drop-on-demand (DOD) technology
- Pick your print area, with up to 2.8 - inch print width per head, stitchable for wider applications
- Name your application - software is designed to suit
- Integrate easily with DPI's four-position head mount

AFFORDABLE

- Includes software, controller and support
- Get the best value on the market with UV-variable inkjet printing on difficult substrates

QUALITY AT HIGH SPEED

- Keep pace with your production line at speeds up to 650 fpm
- Print in black or color ink, up to 286 dpi

Software & application

The expansive substrate flexibility and Spectra DOD head technology make the DOD 256V an ideal variable printing solution such as :

- Serialized product identification numbers
- Two-dimensional barcodes such as PDF 417, data matrix, Maxicode and QR code
- Date codes
- Source codes
- Product use or end-user information
- Graphics and logos

THESE CAN BE EASILY USED FOR APPLICATIONS LIKE : TICKETS, GAMING AND PROMOTIONS

- Peel-n-Reveal gaming cards
- Scratch-off gaming cards
- BINGO cards
- Sweepstakes tickets
- Product and skid ID tags and labels



TAGS AND PRODUCT ID

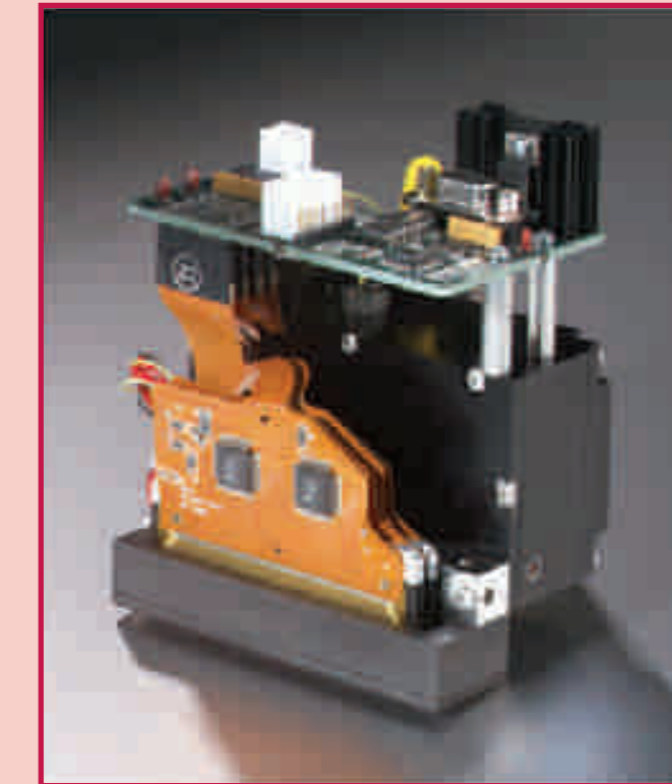
Digital printing is perfect when customers need to track information. Simply add a barcode with the following data to a product tag :

- Inventory
- Source information
- Distribution information
- Lot numbers
- Batch numbers
- Other product or manufacturing information

Sequential barcodes of any symbology, incrementing/decrementing numbers, jumbo numbers, variable text, infrared or UV text, logos or any combination can be added to your products inline or offline with custom integration from DPI.

LABELS AND DIRECT MAIL

Add high-resolution, high-speed personalization to direct mail applications by integrating DPI's variable printing technologies with your press, collator, sheet-fed press, transport or converting equipment.



The Spectra® Nova PH 256/80 AAA is a high performance, robust and reliable printhead designed for a broad range of industrial and commercial printing applications such as wide format graphics, addressing, and packaging at resolutions up to 450 dpi.

The Nova PH 256/80 AAA is an ink jet printhead offering complete fluid support and signal processing capabilities for applications using a wide variety of jetting fluids.

Within the printhead's jetting assembly, four electrically independent piezoelectric slices, each with 64 addressable channels, are combined to provide a total of 256 jets. The nozzles are arranged in a single line at a 0.011 inch distance between nozzles.

The jetting assembly contains serial-to-parallel converters for selecting which jets to fire. The channels are daisy-chained into two serial data streams using the Head Interface Board. A high-voltage fire pulse with controlled slew rates is used to actuate the pumping chambers within each channel.

The fluid interface is through the on-head reservoir, which has an integrated filter and fluid level sensor. This permits tight control over the fluid supply and also helps maintain a meniscus vacuum, used to prevent fluid weeping and air ingestion at the nozzles. An additional pneumatic

interface allows for an external deaeration vacuum (incorporating Dimatix's patented lung technology).

For thermal control, a heater cartridge and thermistor temperature sensor are built into the printhead's jetting assembly.

FEATURES:

- 75 picoliter calibrated drop size
- 256 individually addressable, inline nozzles
- Excellent channel to channel uniformity
- Excellent jet straightness
- High frequency continuous operation
- Head Interface Board for serial data transmission
- Ink reservoir, deaeration system, and fluid filter
- Ink level sensor
- Permits high viscosity jetting fluids
- Orientation independent
- Designed for long service life
- Temperature control

