

Product specifications

PRINT-AREA CAPABILITY

Width : 4.25 In. (107.95 mm) or 8.5 In. (215.9 mm)
Stitching multiple heads across allows for even wider applications.

RESOLUTION AND SPEED

600 x 600 DPI at 300 fpm
600 x 450 DPI at 450 fpm
600 x 300 DPI at 600 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

Aqueous Black
Fast-dry Black

INK DELIVERY

Standard Bulk-ink Delivery, 775 MI

STOCKS AND SUBSTRATES

Prints on a wide variety of paper-based stocks and substrates, thanks to the array of available inks

DRY TIME

Dries in seconds on most paperbased substrates (IR drying system recommended for coated stocks)

TIJ 425/850

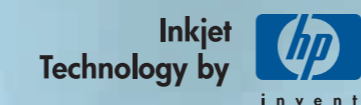
high-resolution, WIDE-PRINT solution

Contact information



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TIJ 425/850

high-resolution, WIDE-PRINT solution



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TIJ 425/850

high-resolution, WIDE-PRINT solution

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

Add a wide, variable print solution to your equipment for an affordable price.

HIGH-RESOLUTION WIDE PRINT

- Get reliable, high-resolution printing with robust Hewlett-Packard thermal inkjet technology (TIJ).
- Increase flexibility with 4.25, 8.5 inch and larger print widths.
- Produce crisp, clear barcodes, text, numbers and graphics at resolutions up to 600 x 600 dpi

FAST

- Keep pace with your production line at speeds up to 600 fpm.
- Print and stack without worries - ink dries in



- seconds on most paper-based substrates.
- Maximize production and minimize operator interruptions with standard bulk-ink delivery system that keeps you printing while it replenishes the ink supply.

AFFORDABLE

- Choose simple, robust technology that fits your budget.
- Keep operating costs low with intuitive ink and printhead installation and little to no maintenance.
- Reduce handling costs with clean, water-based inks.
- Includes software, controller and support

Software & application

The flexible print widths and proven HP TIJ technology make the TIJ 425 and 850 ideal for producing fast, high-quality variable prints on a wide variety of items 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.

Component Specifications

IMAGER CONTROLLER

The Imager Controller and Dual Imager Controller subsystems enclose and protect the electronics and are designed for either floor or rack mounting. The Imager Controller performs these functions:

- Receives data for printing via the Gigabit LAN port
- Receives commands and transmits status information to OEM master controller/print server
- Regulates DC power for the Imager Controller, Ink Delivery System and Imaging Module
- Processes incoming data for the printheads. Receives media position feedback signals for image control (encoder and top of form)
- Controls the service station and imaging module motors



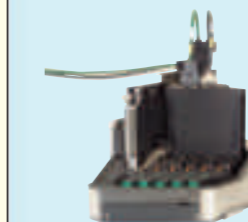
The Q7473L Imager Controller includes an integrated circuit board for expanded GPIO features, and a digital filtering enhancement on the encoder signal. (Note: Enhanced firmware functionality not available for Q7473A Imager Controllers.)

IMAGING MODULE

The Imaging Module has two subsystems: the imaging head and the service station.

The imaging head subassembly provides data and control for the five replaceable printheads. It includes the printheads, backplane printed circuit assembly (PCA) and carriage PCA.

The service station subassembly uses the printhead cleaners to automatically maintain the printheads in optimal printing condition.



INK DELIVERY SYSTEM

The Ink Delivery System (IDS), with 6-meter tubing, stores and controls two 775 ml bulk ink cartridges, which operate serially and can be hot-swapped. The bulk ink cartridges are contained in a single enclosure. The IDS performs these functions :

- Delivers ink to the printheads
- Performs ink level sensing



PRINthead

This modular printhead is designed with HP's most advanced thermal inkjet technology.

- Native resolution: 600 dpi
- Drop volume: 15-18 pl
- Maximum firing frequency: 36 kHz
- Printhead dimensions: 65 mm x 50.5 mm x 18.5 mm



775 ML INK CARTRIDGE

This bulk ink cartridge contains 775 ml of ink to keep ink costs low and reduce operator interventions. A "smart chip" stores technical data and enables electronic ink level detection.

- Capacity: 775 ml
- Dimensions: approximately 257 mm x 120 mm x 53 mm
- Eight electrical interface contacts
- Septum ports for air and ink connections to the ink delivery system
- External latching surfaces and locating datums



PRINthead CLEANER

This disposable printhead cleaner caps the printhead while the system is idle. During printing, the printhead cleaner automatically wipes the printhead at regular intervals.

The printhead cleaner should be replaced at the same time as the printhead.

