

PIXELJET™ 64

Imaging Subsystem



The PixelJet™ 64 Inkjet Imaging Subsystem from Trident® uses a single 64-channel printhead to produce near-letter-quality alphanumeric and graphics images up to 0.45 inches (11.4 mm) tall.

The PixelJet 64 provides twice as many individually addressable channels as Trident's UltraJet™ Imaging Subsystem in a smaller printhead footprint. The printhead can produce up to four lines of print at twice the vertical resolution of the UltraJet 96/32. Several printheads can be indexed to enable imaging over a wider print area.

This rugged printhead, with its stainless-steel body enclosed in a new protective polypropylene casing, redesigned ship cap and heavy-duty cabling connections, is designed to bear the demanding conditions associated with industrial printing environments. The ruggedness of the PixelJet 64 will result in a reduction of the ongoing costs associated with maintenance and service of your system in the field. And, because the PixelJet 64 is manufacturer-repairable, your replacement costs are kept to a minimum.

PixelJet 64 Imaging Subsystems, complete with printhead, ink supply, ink, and associated drive electronics, are available from Trident. With printhead orifices smaller than a human hair, the PixelJet 64 produces extremely low volume droplets. As a result, the ink efficiency is superior to that of competitive printing technologies. And, for added flexibility, you have a choice of ink sources.

- Near-Letter-Quality Images
- High Performance Capability
- Rugged Stainless Steel Construction
- Repairable Design
- Choice of Ink Sources



TRIDENT
INTERNATIONAL, INC.

PRODUCT SPECIFICATIONS

Imaging Capabilities

- Field height: 0.45 inch (11.4 mm)
- Number of channels: 64
- Number of orifices: 64
- Vertical addressability: 140 pixels/inch (55 pixels/cm)
- Horizontal resolution: Application-dependent

Print Characteristics

- Drop rate per orifice: Up to 12,000 droplets per second
- Nominal drop velocity: 36 feet/second (11 m/sec)
- Nominal drive voltage range: 40 to 55 Volts
- Print orientations: Up, down, or sideways

Printhead Physical Dimensions

- Body material: Stainless Steel
- Length: 3.1 in (79 mm)
- Depth: 3.1 in (79 mm)
- Height: 1.5 in (38 mm)
- Mounting holes: Four M 4 x 0.7, tapped

Options

- Large Ink Supply with ink-level detection
- Replaceable in-line filter
- Ink bottles: 125 or 500 ml (max.)
- Tube length: Up to 72 inches (1.8 mm)

Interfacing

- PixelJet 64 Driver Boards Provide
 - Signal conditioning
 - Slant delay
 - Ink-level Detect Circuit
 - Printhead Temperature Control Circuit
 - RS-232 Interfacing
 - Subjection Pulsing Capabilities

System Diagram (See below)

