Matthews Marking Systems™

ELIXIR INDUSTRIAL EQUIPMENT INCORPORATED

DATASHEET

VIAjet™ L SERIES

Powered by MPERIA®, the most versatile and powerful print management platform, the VIAjet™ L-Series thermal inkjet printer provides high print resolution at very high speeds. It can print 600x600 dpi at 196 ft/min (60m/min) and 75x600 dpi at up to 1,600 ft/min (488m/min), significantly outperforming HP-based thermal inkjet systems.

The VIAjet™ L-Series has inks for both porous and non-porous applications and is proven to be a cost-effective alternative to thermal transfer and continuous inkjet printing as well as adhesive labels. An advanced design reduces ink consumption costs and improves uptime. Changeover is easy, simply snap in a new cartridge. For applications using high ink volumes, the optional VIAjet™ L-Series Bulk Ink System will meet your needs. The VIAjet™ L-Series Bulk Ink System allows you to significantly lower your cost per mark and allows you to print for a much longer period without stopping for changeover.

The VIAjet™ L-Series thermal inkjet printheads are powered by the MPERIA® platform. The MPERIA® controller effectively manages messages and settings for multiple printers across one or several production lines or packaging locations. An extensive selection of pre-formatted and configurable counters, batch controls, user-defined text fields and barcode symbologies makes message creation and selection a breeze with the intuitive touchscreen interface. Seamless integration with ERP-/MRP-/WMS systems helps to reduce coding errors. Best of all, MPERIA® is expandable, allowing you to add other printheads or print technologies as needed, making your system investment secure.

- + Very high print speed, twice as fast as HP-based systems
- + High-resolution images up to 2" per head
- + Simple touchscreen interface
- + Porous and non-porous inks in various colors
- + Scalable solution for one head or multiple
- + Bulk Ink Supply available







VIAjet™ L-Series Technical Specifications

Operating temperature and humidity

- Ink dependent(1)

Inking System

- Single-use cartridges and bulk ink supply
- Water-based for porous substrates and fast drying solvent-based, including MEK inks, for very tough non-porous applications
- Multiple colors available

Electrical

- 96-264 VAC, 50-60Hz, 0.5-1A via adapter or 24VDC 90W filtered power

Hardware Options

- Photocell
- Encoder
- Mounting clamps and stands
- Hand scanner
- Warning light
- Bulk ink delivery system

MPERIA® Platform

MPERIA® Controller[2]

- Controls multiple production lines
- Combine multiple inkjet technologies
- Stack printheads for extra print height
- Touchscreen interface (available 7"–15")
- Built-in database
- Network-ready
- Simple message creation & editing
- Application-specific plugins
- Password-protected user levels
- Troubleshooting/maintenance screens
- Virtually no storage limits for number of messages/logos, message length, types of barcodes and time codes, etc.
- On-board image editor
- Virtual simulator
- Intuitive program design
- Windows/Codesoft driver
- TrueType fonts, grayscale and color images
- Guided installation/configuration
- Multilingual with full BIDI support

Communications & Networking

- Ethernet-based with advanced connectivity
- Possibilities for ERP systems, computers, PLCs
- Remote User Interface control via VNC

Print Capabilities

- TrueType fonts with unique ink-saving print density and object color settings
- On-line cost per mark & ink usage calculator
- Static and dynamic text fields
- User-editable variable fields
- Customizable date and time codes
- Customizable sequential and batch counters
- Barcodes (GS1-128, GS1 DataBar, EAN-8/13, UPC-A, ITF/ITF-14, Code 39/128)
- 2D codes (GS1-Data matrix, Data matrix, QR & Micro QR code)

	Number of ink cartridges	Maximum print height	Maximum print speed @75 dpi[3]	Maximum print speed @600 dpi	Maximum print distance for readable 2D barcode	Printing direction	Printhead dimensions
L12	1	½" (12.7 mm)	1,600 ft/min (488 m/min)	196 ft/min (60 m/min)	¼" (6.4 mm)	Horizontal or down	3.4" x 5.1" x 8.3" (87 x 129 x 210 mm) (W x H x L)
L25	2	1" (25.4 mm)	1,600 ft/min (488 m/min)	196 ft/min (60 m/min)	¼" (6.4 mm)	Horizontal or down	5.2" x 5.1" x 8.3" (133 x 129 x 210 mm) (W x H x L)
L50	4	2" (50.8 mm)	1,600 ft/min (488 m/min)	196 ft/min (60 m/min)	¼" (6.4 mm)	Horizontal or down	8.8" x 5.2" x 8.3" (224 x 133 x 210 mm) (W x H x L)

(1) Typically 50-104 °F/10-40 °C, 10-80% RH (non-condensing) for water-based inks.
(2) Find detailed information about our MPERIA® controllers on the MPERIA® controller data sheet.
(3) Multiple printheads can be linked to increase print speed by two times to four times.

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