

DATASHEET

VIAjet™ L-Series L1

HIGH-RESOLUTION THERMAL INKJET PRINTERS

A compact, high-performance printhead to drive higher productivity in primary coding applications on your production line or high-speed commercial printing operation.

Ideal Applications

- + Single and multi-line small character text, 1D and 2D barcodes, logos, and graphics
- + Fixed and variable data, including date/lot codes, serial numbers, GS1, lottery coding
- + Integration in OEM applications

Advantages

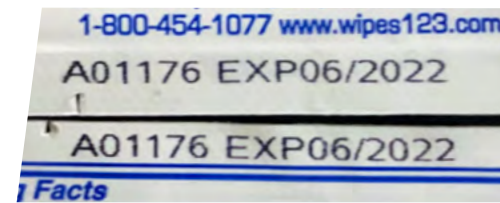
- + Interlacing L1 printheads achieves speeds up to 3,200 ft/min (975 m/min)
- + Cartridge based system means virtually no maintenance
- + True 600 dpi marking at 200 ft/min (60 m/min)
- + L-Link and L1s provide ultimate installation flexibility and scalability
- + Available active bulk ink supply keeps your line running non-stop, for less

Increase Production Line Efficiency

- + Centralize marking and coding control with the industry's only true universal controller, MPERIA®
- + Automate data flow with seamless database integration
- + Add marking technology and systems without extra investment or middleware

LS BLACK
LS BLUE
LS GREEN
LS RED
LS BROWN
LS PURPLE

L1 marks on kraft brown corrugate



L1 mark on PE film



L1 mark on cardboard roll



L1 mark on shampoo bottle





VIAjet L-Series L1 Specs

L-Series L1 Specs

- + Maximum print height: 1/2" (12 mm)
- + Print resolution: 75x600 dpi to 1,200x600 dpi (WxH)
- + 1600 ft/min (488 m/min)* at 75 dpi
- + 800 ft/min (244 m/min)* at 150 dpi
- + 400 ft/min (122 m/min)* at 300 dpi
- + 200 ft/min (60 m/min)* at 600 dpi
- + Over 500 unique QR codes per second with an MPERIA® Standard controller
- + Print direction: Horizontal or down
- + Dimensions: 5.63" x 3.63" x 1.63" (143 mx92 mx41 m) (LxWxH)
- + Weight: 0.97 lb (440 g)
- + Cable length: Up to 6' (2 m)

L-Link Control Module

- + Dimensions: 10.1" x 6.75" x 1.3" (257 mx171 mx33 m) (LxWxH)
- + Weight: 3.2 lb (1,440 g)
- + Number of printheads: 1 to 4 per L-Link
- + Interface to MPERIA® controller: Ethernet
- + Print activator inputs: 1 to 2 PNP/NPN for controlling up to 2 production lines
- + Speed encoder inputs: 1x quadrature or 2x single channel RS422/TTL for controlling up to 2 production lines
- + Electrical: 96-264VAC, 50/60Hz, 0.5-1A via adapter or 24VDC 90W
- + Operating temperature and humidity: Ink dependent. Approximately 50–100°F (10–40°C), 10–95% RH (noncondensing) for water-based inks

Inks

- + From water-based solutions in color options to solvent-based inks that are FDA-approved, we engineer high-performance inks for your application on porous and non-porous substrates

Connectivity

- + A single L-Link connects up to four L1 printheads
- + Multiple L-Links can be networked to a single MPERIA controller giving your production facility ultimate flexibility for installation while easily expanding capacity as your demand grows.

Unique Cost Saving Features

- + Grayscaleing of individual objects and ink-saving, TrueType fonts with individual settings for character width, letter, and line spacing
- + Up to 2 liters of ink per quick-disconnect bulk ink cartridge compared to 400 ml for competitive TIJ systems
- + High-contrast inks require less volume for the same readability compared to competitive TIJ inks



L-Link Control Module



L1 Printhead



L1 Bulk Cartridge Printhead



L-Link and Interlaced L1 Printheads

* Multiple printheads can be stitched together to achieve higher print speeds, effectively multiplying the speed/resolution for each additional printhead.



Matthews Marking Systems Locations