Matthews Marking Systems™

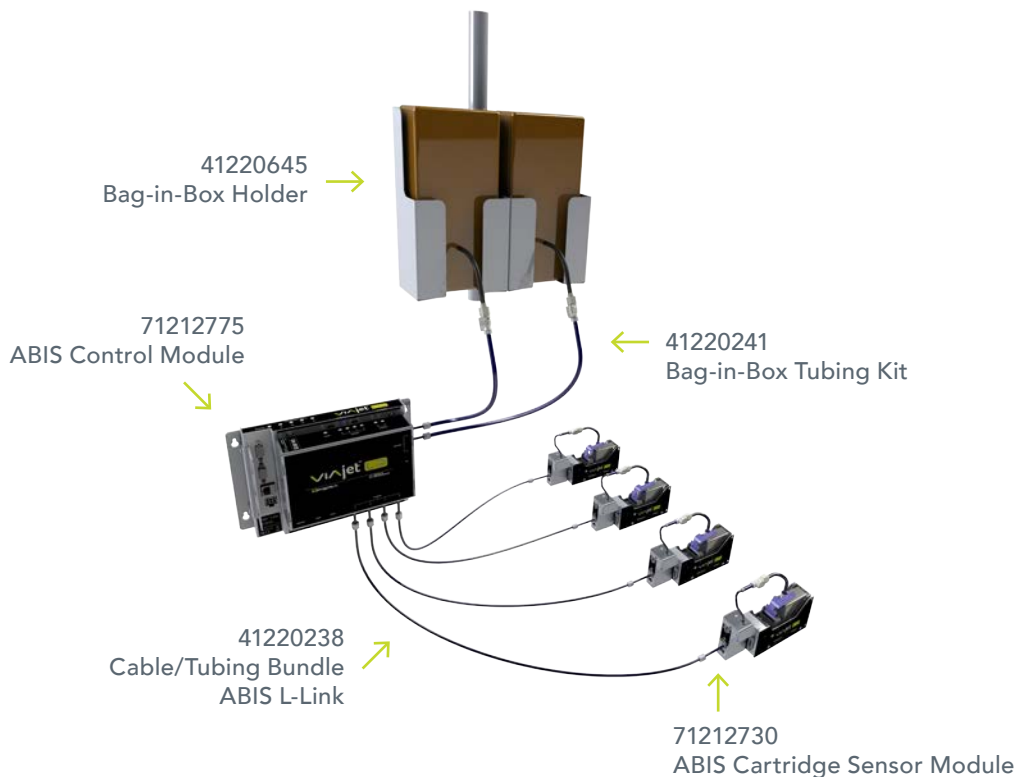# VIAjet™ L-Series Active Bulk Ink System (ABIS)

Setting a new standard in bulk ink reliability and quality for porous printing.

The VIAjet L-Series Active Bulk Ink System (ABIS) features compact, high-performance, high-resolution printing with water-based inks. Providing increased productivity and decreased cost compared to single-use cartridges, ABIS is a leap forward in bulk ink delivery technology, setting a new standard in reliability and quality.

ABIS's unique auto-calibration and onboard sensors provide flexibility of setup, and ensure consistent high-performance printing. The automatically switching dual ink supply also allows for uninterrupted printing while changing the bulk ink Bag-in-Box. ABIS works with all L-Series printheads for both new and existing installations. Powered by the MPERIA® controller to manage one or multiple systems, ABIS provides a visual setup wizard for easy step-by-step installation and configuration.

+ **Increase Uptime**: Up to 30 times longer cartridge life than single-use systems

+ **Reduced Cost Per Mark:** Up to 8 times less expensive than single-use water-based ink cartridges

+ **Flexible and Dependable:** Built-in intelligence ensures problem-free setup and operation for a range of applications and environments

VIAjet L-Series Active Bulk Ink System (ABIS)

41220645
Bag-in-Box Holder

71212775
ABIS Control Module

41220241
Bag-in-Box Tubing Kit

41220238
Cable/Tubing Bundle
ABIS L-Link

71212730
ABIS Cartridge Sensor Module

ABIS Key Features and Specifications

Overall System

+ Compatible with all L-Series printheads
+ Onboard CPU and accelerometer adjusts to installation needs, changing applications and environments
+ Dual ink supply (standard) provides hot swap bulk ink change without interruption
+ Up to four printheads can be installed at various elevations and orientation due to automatic height calibration
+ MPERIA® Software set up wizard contains animated step-by-step installation and configuration instructions

Inks

+ Bulk Bag-in-Box ink supply available in 500 ml[1] and 1 L bags
+ Ink Types: Multi-color water-based inks for porous substrate
+ Cartridge Types: Quick Disconnect (QD)

Control Module

+ Direct mounting to L-Link for compact installation[2]
+ Redundant cartridge sensors and valves
+ Ethernet communication with built in two-port ethernet switch for direct connection to L-Series printhead or L-Link
+ Control up to four cartridges per ABIS unit
+ Easy, one button system priming
+ Status log reporting (via Ethernet) to MPERIA® for easy diagnostics
+ Alarm light compatible

Cartridge Sensor Module

+ Each sensor module can be mounted on a printhead up to 2 m from the control module
+ Easy, one button cartridge priming
+ Real-time communication to the control module
+ Easy mounting to any L-Series printhead
+ Communication and fluid lines pre-bundled

OPERATING TEMPERATURE AND HUMIDITY	ELECTRICAL	PROTECTION
Ink dependent	100-240 VAC	IP30
Approximately 50–100°F (10–40°C)	50/60Hz	
10–95% RH (noncondensing) for water-based inks	0.5-1A via adapter or 24VDC 90W	

(1) 500 ml coming soon
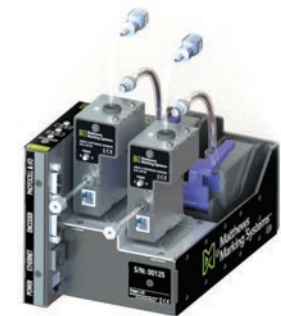(2) Requires L-Link S/N 0490 and greater
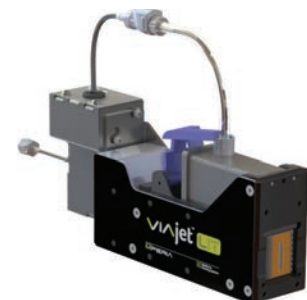(3) Cartridge life is one month after first insertion

Unique Cost Saving Features

+ Grayscaling of individual objects and TrueType, ink-saving fonts with individual settings for character width, letter and line spacing
+ 1–2 liters of ink per QD bulk ink cartridge *(application dependent[3])* compared to 400 ml for other TIJ systems
+ High-contrast inks requiring less volume for the same readability compared to other TIJ inks
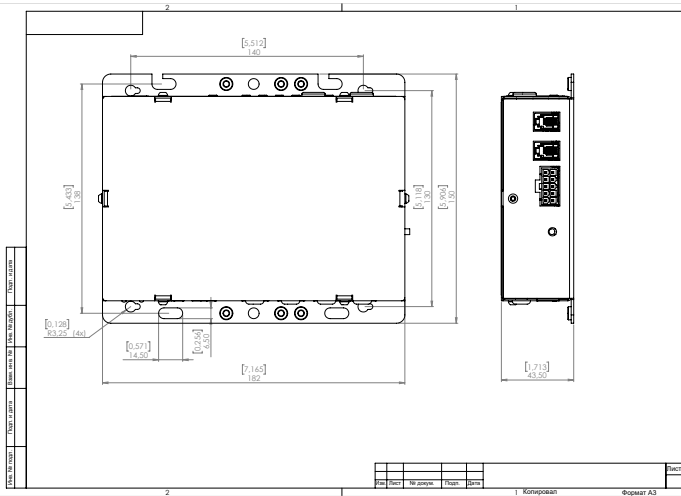

ABIS Mounted to L-Link

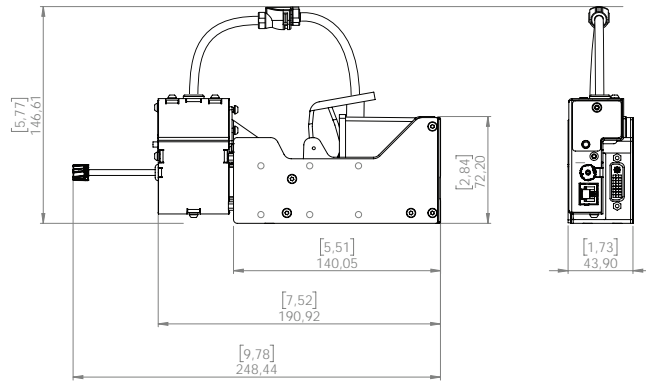Cartridge sensor modules mounted to L-25
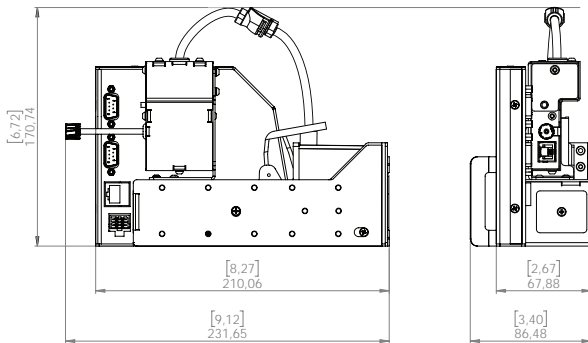

Cartridge sensor module mounted to L1
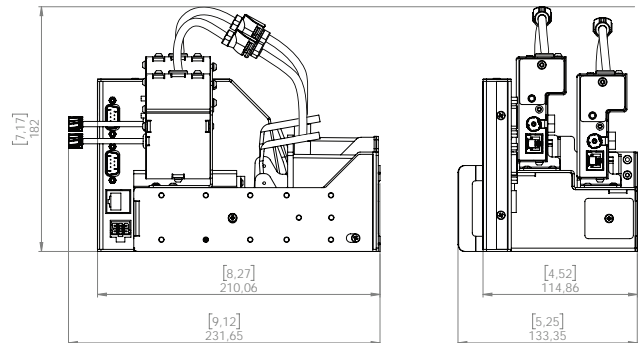
ABIS Module

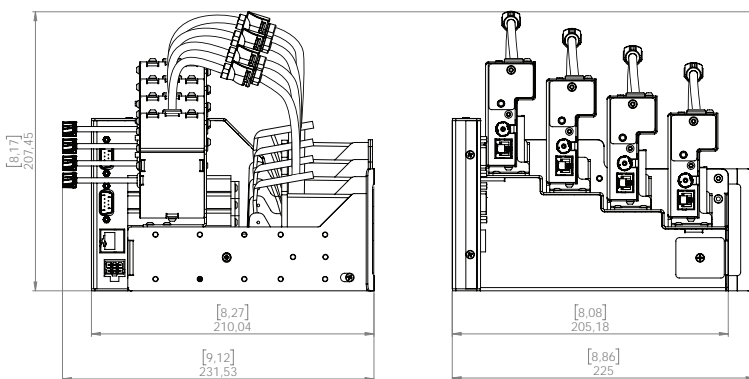## L1 + Cartridge Sensor Module (CSM)

L12 + CSM

L25 + CSMs

L50 + CSMs

About Us

We are a global provider of marking and coding solutions designed to perform their best on high-demand, high-capacity productions lines, where reliability is a must. We are a true partner, customizing our solutions to your requirements and building with high-quality materials to provide many years of service.

Expertise, Applied

We make printing the most reliable step in your production line by leading in three critical areas:

1 Innovation.

We maintain a technical advantage over competitors, investing in the continuous improvement of our marking solutions.

2 Flexibility.

No matter what you're trying to mark, no matter how your production lines are setup, we'll make it happen.

3 Know-How.

We understand your industry and speak your language, building solutions that fit your world.

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Automated Marking, Labeling & Packaging Systems

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