



DATASHEET

MPERIA® Axian Inkjet AX1000

SMALL CHARACTER INKJET

Beyond continuous inkjet (CIJ) there is Axian Inkjet (XIJ). Meet the revolutionary new marking technology that will transform your approach to primary marking.

MPERIA® XIJ AX1000 is a compact, easy-to-install and operate marking system combining the best aspects of other marking technologies to deliver a seamless, high performance and cost-effective marking experience.

Superior Marking Performance

Print multiple lines of text and 2D codes at speeds up to 200 ft/min (61 m/min) without sacrificing print speed or readability.

Game-Changing Reliability

Fewer moving parts, stainless steel enclosure for cleaner, nearly maintenance-free operation.

Easy-to-Load and Change Ink Technology

Swap the single ink cartridge in seconds, with no make-up solvent required.

Plug and Print Simplicity

Features MPERIA®, the intuitive touchscreen user interface for message creation and data automation.

Lower Operating Costs

With faster startup, higher throughput, more uptime, and simple operation, total cost of ownership is lower than comparable CIJ marking systems.



Messages

- + Max Print Height: 0.50" (13 mm)
- + Max Number of Lines: Up to 5 lines
- + Max Print Resolution: 100 DPI
- + Drop Size: User-configurable
- + Printhead Umbilical: Length: 9.8' (3 m)
Diameter: 0.79" (20 mm)
Bend Radius: 4.0" (101.6 mm)
- + Robust Stainless Steel Printhead:
Length: 9.2" (233.3 mm)
Weight: 2 lbs (0.9 kg)
Diameter: 1.75" (44.4 mm)



MPERIA® XIJ AX1000 Key Highlights

System Highlights

- + Fast 1-minute startup
- + Nearly maintenance-free operation

Throw Distance

- + Up to 0.32" (8mm) for 2D barcode
- + Up to 0.47" (12mm) for alphanumeric

Throughput

- + Line speed: up to 200 fpm (60 mpm)
- + Max print speed: 3,000 characters per second (3-line message/5-dot wide characters/1-dot spacing)
- + Typical print speed: 1,500 characters per second (2-line message/7-dot wide characters/1-dot spacing)

Printhead

- + Mounting: 0 degrees (horizontal) to 90 degrees (down)

Printhead Umbilical

- + Material: Ethylene Propylene Diene Monomer (EPDM)

Weight (Nominal)

- + Controller: 2.20 lbs (1.0 kg)
- + Printhead: 2 lbs (0.9 kg), excluding umbilical
- + IDS (dry): 13.22 lbs (6.0 kg)
- + IDS (inked): 15.43 lbs (7.0 kg)

Ink Delivery System (IDS)

- + Single 800 ml ink cartridge (no make-up solvent required); 100 ml ink reservoir for uninterrupted printing while replacing empty cartridge

Ink Cartridge

- + Black, fast dry solvent and dye-based 800 ml

Fonts

- + Bitmap matrix fonts from 5x5 to 39x52
- + Scalable fonts, including user-added TrueType fonts

Typical Startup Time

- + < 1 minute after power cycle

I/O and Communications

- + 100 Mbps Ethernet
- + Trigger input (photocell included)
- + Encoder input
- + Outputs for light tower (option) and system state (ready/printing/low ink/error)
- + MPERIA® external protocols: line action, XML, command

Electrical

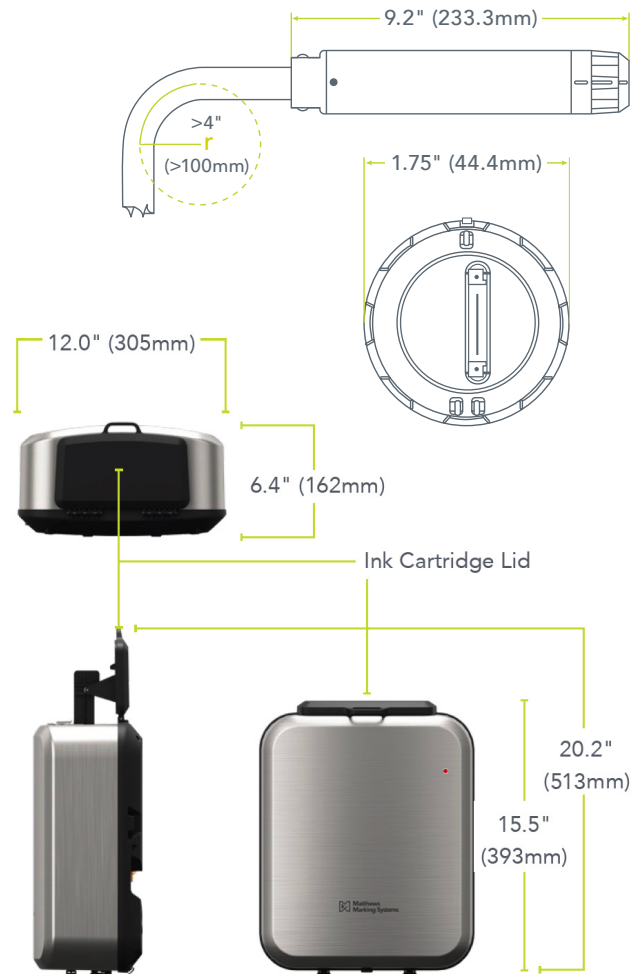
- + 100–240VAC @ 50/60Hz, 25W
- + 3m power cord (North America)

Environmental

- + Operating temperature: 41F–113F (5C–45C); 10–90% RH non-condensing
- + IP54 rated controller and IDS

Options and Accessories

- + Mounting stands and brackets
- + Linear encoder
- + Light tower (red/orange/green)
- + Printhead cleaning kit
- + IDS cleaning cartridge



matthewsmarking.com

Matthews Marking Systems Locations

Americas | O: +1800 775 7775 | matthewsmarking.com
 APAC | O: +603 7717 4788 | matthewsmarking.com
 China | O: +864 0089 02800 | matthewsmarking.cn
 EMEA | O: +49 8052 95110 | matthewsmarking.de
 Nordics | O: +46 31 338 7900 | matthewsmarking.se