



L: 44.4 mm; W: 50.8 mm; H: 24.4 mm

Features & Benefits:

- High Speed Increases Throughput
- Multi-Functional Design Provides 1D/2D Barcode Reading and Machine Vision Capabilities
- Solid-State Electronic Construction for Durability and Reliability
- Long Product Life Cycle

High-Speed, General Purpose Fixed Mount Imager

JADAK's FM-5Z is a high-speed, accurate 1D and 2D barcode scanner that utilizes area imaging technology to decode. FM-5Z also provides optional image analysis capabilities utilizing JADAK's machine vision software.

FM-5Z has a small form factor, making it easy to integrate into Original Equipment Manufacturer (OEM) devices.

FM-5Z's high-speed performance reads up to 584 cm (230") per second on single barcodes. It is capable of reading barcodes on hand-inserted test tube racks and carousels moving up to 50.8 cm (20") per second.

Applications:

- OEM Medical Devices, such as Clinical Analyzers
- Life Science Equipment, including Carousel and Manual Rack-Feeds
- Robotic Systems
- Kiosk



Scanning Performance	
Sensor	B&W and Color
Illumination	617 nm visible Red LED (White LED available on color units)
Aiming	528 nm visible Green LED or 650 nm Red Laser
Typical Frame Rate	Full 2D Mode: 60 frames per second High-Speed Linear: 130 frames per second, >350 scans/second
Motion Tolerance	Full 2D Mode: Up to 584 cm/sec (230 in/sec) in total darkness with .013" UPC at 4" High-Speed Linear: Up to 50.8 cm/sec in total darkness on linear codes spaced 9.5 mm (.375") apart
Field of View	Full 2D Mode: Horizontal: 42.4°, Vertical: 33.0° High-Speed Linear: Horizontal: 42.4°, Vertical: 9.5°
Scan Angles	Tilt: 360° (Full 2D Mode), Pitch: ± 45°, Skew: ± 65°
Symbol Contrast	20% minimum reflectance
Barcode Resolution	Down to 5 mil (.005")
Symbologies	Linear: Code 128, Code 2 of 5, Code 32, Code 39, Code 93, Code 128, UPC/EAN/JAN, Matrix 2 of 5, GS1 Databar, Codabar/NW7, Interleaved 2 of 5, Code 2 of 5, Telepen, Trioptic, China Post, MSI 2D Stacked: PDF417, MicroPDF417, GS1 Composite
Symbologies in Full 2D Mode Only	2D Matrix: Aztec Code, Data Matrix, MaxiCode, QR Code, Micro QR Code, Chinese Sensible (Han Xin) code Postal: Australian Post, British Post, Canadian Post, Japanese Post, Netherlands (KIX) Post, Planet Code, Postnet, Intelligent Mail Barcode, Postal-4i OCR: OCR-A, OCR-B, E13B (MICR) (OCR Optional)
Regulatory	
	FCC Class B, CE
Environmental	RoHS compliant
Mechanical/Electrical	
Weight	40g
Interface	True RS232, USB 1.1 (HID COMM or Keyboard), USB 2.0 (HID COMM or Keyboard)
Input Voltage	5 VDC ±5%
Typical Current Draw	<500mA
Environmental	
Temperature	Operating: -25°C to 50°C; Storage -40°C to 70°C
Humidity	0 - 95% Relative Humidity, non-condensing, at 50°C
Ambient Light	0-100,000 lux (total darkness to bright sunlight)

ABOUT JADAK:

JADAK, a business unit of Novanta, is a market leader in machine vision, RFID, barcode, printing, and color and light measurement products and services for original equipment manufacturers. The company designs and manufactures embedded detection and analysis solutions that help customers solve unique inspection, tracking, scanning and documenting. The company is ISO 9001 and ISO 13485 registered.

Novanta is a trusted technology partner to OEMs in the medical and advanced industrial technology markets, with deep proprietary expertise in photonics, vision and precision motion technologies.

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JADAK
A Novanta Company

USA Office

phone: +1 315.701.0678
email: info@jadaktech.com
web: jadaktech.com

European Office

phone: +31 (0)76.522.5588

Asia Pacific Office

phone: +86 512.6283.7080