



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

Features & Benefits:

- Compact Design for Easy Integration
- Affordable for High Volume Applications

1D/2D Fixed Mount Barcode Reader

JADAK's FM-5E combines quality and performance in an affordable and compact design. The FM-5E is an image based sensor that reads all mainstream linear (1D) and matrix (2D) barcodes with excellent reliability.

Available with RS-232 or USB host interfaces, the FM-5E can read standard, label-based barcodes as well as those directly from cell phone screens.

The FM-5E's small form factor allows easy integration into Original Equipment Manufacturer (OEM) devices. It provides aggressive and accurate barcode scanning in a small package, making it a good solution for those that need an integrated scanner at an economical price.

Applications:

- OEM Devices
- Kiosks



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Scanning Performance	
Sensor	CMOS with 640 x 480 pixel resolution
Illumination	White LED
Aiming	Red LED dot
Typical Frame Rate	30 frames per second
Motion Tolerance	Up to 100 cm/sec (40 in/sec) in total darkness with .013" UPC at 4"
Field of View	Horizontal: 37.8°, Vertical: 28.8°; Scan Angles: Tilt: 360°, Pitch: ± 45°, Skew: ± 45°
Symbol Contrast	35% minimum print contrast ratio
Symbologies	<p>Linear: Codabar, Code 11, Code 128, Code 2 of 5, Code 39, Code 93 and 93i, EAN/JAN-13, EAN/JAN 8, IATA Code 2 of 5, Interleaved 2 of 5, Matrix 2 of 5, MSI, GS1 Databar, UPC-A, UPC E, UPC-A/EAN-13 with Extended Coupon Code, Coupon GS1 Code 32 (PARAF), EAN-UCC Emulation, GS1 Data bar 2</p> <p>2D Stacked: Codablock A, Codablock F, PDF417, MicroPDF417</p> <p>2D Matrix: Aztec Code, Data Matrix, MaxiCode, QR Code, Chinese Sensible (Han Xin) code</p> <p>Postal: Australian Post, British Post, Canadian Post, China Post, Japanese Post, Korea Post, Netherlands Post, Planet Code, Postnet</p>
Mechanical/Electrical	
Weight	40g
Interface	True RS232, USB 2.0 (HID comm or Keyboard)
Input Voltage	Serial: 5 VDC ±5%; USB: 5 VDC ±5%
Typical Current Draw	Serial: 5 V input – 300mA while scanning, 75mA when idle, 15mA in standby USB: 5V input – 350mA while scanning, 220mA when idle, 5mA in standby
Environmental	
Temperature	Operating: -10°C to 40°C; Storage -40°C to 60°C
Humidity	To 95% Relative Humidity, non-condensing, at 40°C
Ambient Light	0-100,000 lux (total darkness to bright sunlight)
Shock Rating	2000 G at 23°C
Vibration	3 axes, 1 hour per axis: 2.54 cm (1") peak-to-peak displacement (5 Hz to 13 Hz), 10 G acceleration (13 Hz to 500 Hz), 1G acceleration (500 Hz to 2,000 Hz)
MTBF	70,000 hrs.

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.

www.jadaktech.com

