



L: 44 mm; W: 25.4 mm; H: 40.3 mm

Features & Benefits:

- Aggressively Captures and Processes Images
- Multi-Functional Design Provides 1D/2D Barcode Reading and Machine Vision Capabilities
- Solid-State Electronic Construction for Durability and Reliability
- Long Product Life Cycle

Right Angle, Compact, .5 Megapixel Smart Camera

JADAK's FM-6V is designed for applications that require aggressive machine vision image processing functions. The FM-6V is the latest in smart camera imaging technology. Utilizing the only area sensor designed specifically for reading barcodes and processing images, the FM-6V has longer product life cycles than devices using off the shelf area sensors. The FM-6V's dual-functionality sensor provides both dedicated black & white mode (ideal for barcode) and color mode (ideal for image analysis).

With motion tolerance up to 584cm (230") per second, the FM-6V can read barcodes in motion, whether moved mechanically or by hand.

The FM-6V's small compact package is ideal for Original Equipment Manufacturer (OEM) devices, as well as manufacturing or other applications that require a fixed mount scanner.

Applications:

- OEM Medical Devices, such as Clinical Analyzers
- Industrial Robotic Systems



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| Scanning Performance | |
|-----------------------------|---|
| Sensor | CMOS, Global Shutter, 844 x 640 pixel resolution |
| Illumination | 617 nm visible Red LED (White LED available on color units) |
| Aiming | 528 nm visible Green LED |
| Typical Frame Rate | 60 frames per second, b&w and color |
| Motion Tolerance | Up to 584 cm/sec (230 in/sec) in total darkness with .013" UPC at 4" |
| Field of View | SR Optics: Horizontal: 42.4°, Vertical: 33.0° ER Optics: Horizontal: 31.6°, Vertical: 24.4° HD Optics: Horizontal: 41.4°, Vertical: 32.2° |
| Scan Angles | Tilt: 360°, Pitch: ± 45°, Skew: ± 65° |
| Symbol Contrast | 20% minimum reflectance |
| Barcode Resolution | Down to 3 mil (.003") |
| Symbologies | Linear: Code 128, Code 2 of 5, Code 32, Code 39, Code 93, Code 128, UPC/EAN/JAN, Matrix 2 of 5, Codabar/NW7, Interleaved 2 of 5, Code 2 of 5, Telepen, Trioptic, China Post, MSI 2D Stacked: PDF417, MicroPDF417, GS1 Composite 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 |
| EMC Directive | EMC Directive 2014/30/EU FCC Part 15" Class B |
| Mechanical/Electrical | |
| Interface | True RS232, USB 1.1 (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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