



L: 45 mm; W: 40 mm; H: 24.13 mm

Features & Benefits:

- Bright Aimer and Built-In LED Illumination
- Reads Damaged and Poorly Printed Barcodes
- Compact, Durable Housing

Linear Fixed Mount Imager

JADAK's FM-106 is a compact, durable, high performance fixed-mount CCD barcode scanner for all types of 1D barcodes, including poorly printed and low contrast symbols. The FM-106 offers a fixed scan angle of 53.3°. As one of the smallest, lightest and brightest fixed-mount scanners available, the FM-106 is ideal for accurate automated data collection in Original Equipment Manufacturer device designs with space constraints. It can also be used as a standalone fixed-mount scanner.

The FM-106 has a range of over 43.18cm (17") to ensure high first-time read rates for maximum productivity. The FM-106 is easy to program and configure, enabling you to cut your development time and bring your product to market faster. With durable housing and built-in RS-232 and USB interface, the FM-106 enables your project team to quickly and confidently integrate high performance 1D barcode data capture into many applications.

Applications:

- OEM Medical Devices



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Scanning Performance		
Illumination	LED 630 +/- 30nm	
Scan Rate	Nominally 50 scans/second	
Field of View	Horizontal: 53° +/- 3°, Vertical: .4°	
Scan Angle	53.3° +/- 3°	
Tolerance	Roll: ±25° from vertical, Pitch: ± 65° from normal, Skew: ± 30° from normal	
Minimum Print Contrast	35% MRD measured at 675 nm	
Optical Resolution	5 mil	
Regulatory		
Safety	IEC 60950-1:2005; EN 60950-1:2006	
Environmental	RoHS compliant	
EMI/RFI	FCC Part 15 Class B, ICES-003 Class B	
Mechanical/Electrical		
Interface	Serial, RS-232, USB/COMM Emulation	
Power on First Scan	300 milliseconds	
Power	Camera/Aim Input Voltage: 5.0V +/- .5V Standby Current: 45mA	Camera/Aim Operating Current: 225mA Power Supply Noise: 100mV p-p max.
Shock	1500 G	
Environmental		
Temperature	Operating: 0°C to 50°C; Storage -40°C to 70°C	
Humidity	5 - 95% non-condensing	
Ambient Light	0-110,000 lux (total darkness to bright sunlight)	
Barcode	Typical Distance (@ 23°C on high quality symbols)	Guaranteed
Code 128 5mil	Near: 70 mm (2.75 in.) Far: 210 mm (8.25 in.)	99 mm (3.9 in.) 159 mm (6.25 in.)
Code 39 5mil	Near: 57 mm (2.25 in.) Far: 248 mm (9.75 in.)	80 mm (3.15 in.) 203 mm (8 in.)
Code 39 7.5mil	Near: 38 mm (1.5 in.) Far: 324 mm (12.75 in.)	64 mm (2.5 in.) 260 mm (10.25 in.)
100% UPC-A	Near: 51 mm (2 in.) Field of View limitation Far: 400 mm (15.75 in.)	57 mm (2.25 in.) 279 mm (11 in.)
Code 39 20mil	Near: 38 mm (1.5 in.) Field of View limitation Far: 610 mm (24 in.)	51 mm (2 in.) Field of View limitation 464 mm (18.25 in.)

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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