



19.4 mm x 39.8 mm x 28.2 mm
Assembled imager and decoder board

Features & Benefits:

- Aggressive Decoding Technology Provides Fast and Accurate Barcode and OCR Font Reading
- Exceptional Range and Motion Tolerance, Even on Hard-to-Read Codes and Mobile Displays
- Color Option Allows Color Images
- High Visibility Laser Aiming Option Ensures Crisp & Accurate Targeting

OEM, 2D Miniature Image Engine

JE-222 is a color miniature, advanced area-imaging engine that is easy to use and integrate into Original Equipment Manufacturer (OEM) products. JE-223 is a black and white version. JE-222 delivers high performance 1D/2D barcode and optical character recognition (OCR) font reading with unmatched speed and accuracy. With an advanced illuminating design, this sensor captures images for decoding with exceptional tolerance for motion. JE-222 also includes industry-leading software that is able to decode hard-to-read barcodes. Supported by JADAK's expert engineering and integration team, JE-222's proven quality and reliability provides best-in-class data capture solution, while reducing OEM's development investment and total ownership costs.

JE-222 has superior versatility, with various options available, to meet a wide range of applications. The patented color option captures color images without sacrificing barcode reading performance. JE-222 is available with either a hardware decoder for easy integration or a licensed software decoder for space and power-constrained applications. A high-visibility laser aiming option is available to ensure crisp and accurate targeting, even in sunlight.

Applications:

- Mobile Terminals
- Capture of Color Images, such as Signatures, Packages, Identification Cards, and Other Objects



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Performance:	
Sensor	Proprietary CMOS sensor with global shutter and 844 x 640 pixel resolution; 60 frames per second; optional color
Illumination	617 nm visible red LED
Aiming	LED Aimer: 528 nm visible green Laser Aimer: 650 nm high-visibility red; maximum output 1 mW Class 2
Motion Tolerance	Up to 584 cm (230") per second in total darkness with 100% UPC at 10 cm (4") distance
Field of View	SR Optics: 42.4° (Horizontal), 33.0° (Vertical) ER Optics: 31.6° (Horizontal), 24.4° (Vertical) HD Optics: 41.4° (Horizontal), 32.2° (Vertical)
Scan Angles	Tilt: 360°, Pitch: ± 45°, Skew: ± 65°
Symbol Contrast	20% minimum reflectance
Symbologies	Linear: UPC/EAN/JAN, GS1 DataBar, Code 39, Code 128, Code 32, Code 93, Codabar/NW7, Interleaved 2 of 5, Code 2 of 5, Matrix 2 of 5, MSI, Telepen, Trioptic, China Post 2D Stacked: PDF417, MicroPDF417, GS1 Composite 2D Matrix: Aztec Code, Data Matrix, QR Code, Micro QR Code, MaxiCode, Han Xin Code Postal: Intelligent Mail Barcode, Postal-4i, Australian Post, British Post, Canadian Post, Japanese Post, Netherlands (KIX) Post, Postnet, Planet Code OCR Option: OCR-A, OCR-B, E13B (MICR)
Mechanical/Electrical:	
Dimensions (HxWxD)	Imager without mounting tabs: 12.5 mm x 20.8 mm x 17.2 mm (0.49" x 0.82" x 0.68") Decoder board : 19.1 mm x 39.8 mm x 8.2 mm (0.75" x 1.57" x 0.32") Assembled imager and decoder board : 19.4 mm x 39.8 mm x 28.2 mm (0.76" x 1.57" x 1.11")
Weight	Imager: <7g (0.25 oz.); Assembled imager and decoder board: <20g (0.7 oz.)
Interface	Imager: 30-pin board-to-board (Molex 51338-0374) Decoder: 12-pin surface mount (Molex 52559-1252) or Micro-B USB
Input Voltage	Imager: 3.3VDC ± 5%; Decoder: TTL-RS232: 3.0 – 5.5 VDC; USB: 5.0 VDC ± 5%
Typical Current Draw@3.3VDC	LED Aimer: 276 mA (manual trigger); 142 mA (presentation); 90 µA (sleep) Laser Aimer: 228 mA (manual trigger); 142 mA (presentation); 90 µA (sleep)
Environmental/Other	
Temperature	Operating: -25°C to 50°C (-13°F to 122°F); Storage: -40°C to 85°C (-40°F to 185°F)
Humidity	0 to 95% relative humidity, non-condensing, at 50°C (122°F)
Ambient Light	0–100,000 lux (total darkness–bright sunlight)
Shock Rating	3,500 G for 0.4 ms at 23°C (73°F) to mounting surface
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), 1 G acceleration (500 Hz to 2,000 Hz)
MTBF	LED Aimer > 2,000,000 hours Laser Aimer > 375,000 hours

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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