



11.8 mm H x 21.5 mm W x 16.3 mm D

Features & Benefits:

- Intelligent Imaging Technology Reduces Processing Time for Faster Data Capture
- Support for MIPI and Parallel Interfaces Reduces Integration Time and Component Cost
- Comprehensive Data Capture Capabilities in Milliseconds, including Documents that are Searchable and Editable
- Extraordinary Working Range and Wide Field of View
- Exceptional Motion Tolerance

High Performance, Megapixel Imager

The JE-227 sets the bar on imaging performance and flexibility, providing unparalleled performance on any type of data — from 1D and 2D barcodes to photos and fully searchable and editable legal, letter, A4 and A5 documents. While competitive systems rely on decode software to perform all image processing, the JE-227 offloads a portion of the processing to the scan engine, reducing unnecessary delay and delivering a faster data capture experience. This improves user productivity and efficiency.

JE-227 supports MIPI interface as well as parallel interfaces. This provides time, cost and space savings for incremental hardware components.

JE-227 captures data farther than 92 cm (36 inches) away. And with a wide field of view, it enables reading of larger barcodes and capture of multiple barcodes simultaneously.

The JE-227 captures documents that are highly legible and searchable. Once the image is captured, it is automatically analyzed and up to eight functions are performed as needed. In a fraction of a second and without any user intervention, shadows and noise are removed, images are de-skewed, rotated, brightened, sharpened and cropped.

At roughly .3 ounces and a quarter cubic inch, this small, lightweight image can be easily integrated into space-constrained products.

JE-227 offers a software decode option to reduce space and system power requirements, or a hardware option that includes a stand-alone circuit board that connects to your board, a microchip that can be soldered directly onto the motherboard, or an attached decoder board for a plug-and-play imaging solution.

Applications:

- Mobile computers
- Handheld scanners
- Self-service kiosks
- Medical and diagnostic instruments
- Lottery terminals



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A Novanta Company

Performance	
Sensor:	1280 x 960 pixel resolution
Illumination & Aiming:	2X Warm White LEDs; 655 nm Laser (VLD)
Field of View:	Horizontal: 48° Vertical: 36.7°
Scan Angle Tolerance:	Roll: 360°, Pitch: ± 60°, Skew: ± 60°
Focal Distance:	7.38 in. from Front of Engine
Regulatory:	
Laser Classification:	Intended for Use in CDRH Class II/IEC 825 Class 2 devices
Electrical Safety:	UL, VDE and CU recognized laser component
Environmental:	RoHS Compliant
Mechanical / Electrical	
Dimensions:	(HxWxD): 11.8 mm x 21.5 mm x 16.3 mm (.46" x .85" x .64")
Weight:	8.22 g (.29 oz.)
Interface:	Camera Port on 21-pin ZIF connector
Input Voltage:	Operational Engine: VCC = 3.3 +/- .3V; VCC_ILLUM = 3.0 to 5.5V; VDD_IO_HOST = 1.7 to 3.6V
Total Current Draw:	VCC=VCC_ILLUM=VDD_IO_HOST=3.3V with illumination and aiming on, =580mA pk, 440 mA RMS Current draw in low power (hibernate mode)= 360uA; (standby mode)=15uA
Environmental / Other	
Operating Temperature:	-30°C to 60°C (-22°F to 140° F)
Storage Temperature:	-40°C to 70°C (-40°F to 158°F)
Humidity:	Operating/Storage: 95% relative humidity, non-condensing, at 60°C
Ambient Light:	Max 96,900 lux (direct sunlight)
Shock Rating:	2000 G +/- 5%, any mounting surface, at -30°C and 60°C for .85 +/-ms 2500 G +/- 5%, any mounting surface, at -23°C for .70 +/- .10 ms
Standard Decode Range (SR) OPTICS	
Symbology / X-DIM	Near / Far
3 mil Code 39	7.1 cm (2.8 in.) / 15.8 cm (6.2 in.)
5 mil Code 128	5.8 cm (2.3 in.) / 22.1 cm (8.7 in.)
5 mil PDF417	7.6 cm (3.0 in.) / 20.6 cm (8.1 in.)
6.67 mil PDF417	5.6 cm (2.2 in.) / 26.9 cm (10.6 in.)
10 mil Data Matrix	6.1 cm (2.4 in.) / 26.9 cm (10.6 in.)
100% UPCA	4.1 cm (1.6 in.) Field of View Limited / 58.4 cm (23.0 in.)
15 mil Code 128	6.1 cm (2.4 in.) Field of View Limited / 64.0 cm (25.2 in.)
20 mil Code 39	4.1 cm (1.6 in.) Field of View Limited / 92.2 cm (36.3 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.

www.jadaktech.com

