



8.1 mm H x 22.3 mm W x 13.7 mm D

## Features & Benefits:

- Miniature, Light Weight Form Factor
- Intelligent Imaging Technology Reduces Processing Time for Faster Data Capture
- Unparalleled 1D/2D Barcode Capture in Milliseconds
- Extraordinary Working Range, from Near Contact to 60cm Away

## Miniature, High Performance, Megapixel Imager

Empower your smallest, slimmest and lightest devices with JADAK's JE-229. At less than one fifth of an ounce (5 grams) and two thirds of the height and volume of the typical competitive engines, this tiny imager allows you to eliminate undesirable design constraints, such as the typical "scanner bump."

With unparalleled 1D and 2D barcode capture in the tiniest package, the JE-229 provides split-second reliable barcode capture for the most scan intensive tasks. And with intelligent imaging technology, industry leading decoding algorithms, advanced focusing, optical and illumination systems, you can count on leading-class, high-performance data capture to boost productivity and efficiency.

To capture barcodes faster, a portion of the image processing is offloaded to the scan engine, reducing the delay and delivering a faster data capture experience.

The JE-229 offers a software decode option to reduce space and system power requirements in small design forms, or a hardware option that includes two stand-alone circuit boards that connect to your board or microchip and can be soldered directly onto the motherboard.

JE-229 also supports emerging MIPI interface and traditional parallel interfaces, reducing integration time and cost by eliminating components.

JE-229 allows data capture from near contact to up to 60 cm (24") away, and with a wide field of view, it can easily capture larger barcodes and multiple barcodes.

## Applications:

- Smartphones, Sleds



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Performance	
Sensor:	1280 x 800 pixel resolution
Illumination & Aiming:	1 Hyper Red 660 nm LED Illumination; 610 nm LED Aiming
Field of View:	Horizontal: 42° Vertical: 28°
Scan Angle Tolerance:	Roll: 360°, Pitch: ± 60°, Skew: ± 60°
Focal Distance:	194 mm (7.64 in.) from Front of Engine
Regulatory:	
LED Classification:	Exempt Risk Group LED product per IEC/EN 62471
Electrical Safety:	Complies with IEC/EN 60950-1 +A1 and UL 60950-1 Second Edition Complies with CSA 22.2 No.60950-1-07, 2 <sup>nd</sup> Edition 2011-12
Environmental:	RoHS Compliant
Mechanical / Electrical	
Dimensions:	(HxWxD): 81mm x 22.3 mm x 13.7 mm (.32" x .88" x .54")
Weight:	4.8 g (.17 oz.)
Interface:	Camera Port on 27-pin ZIF connector
Input Voltage:	Operational Engine: VCC = 3.3 +/- .3V; VCC_ILLUM = 3.0 to 3.6V; VDD_IO_HOST = 1.7 to 3.6V
Total Current Draw:	VCC=VCC_ILLUM=VDD_IO_HOST=3.3V with illumination and aiming on, =295mA peak, 230 mA RMS Current draw in lower power (hibernate mode)= 400uA; (standby mode)=1uA
Environmental / Other	
Operating Temperature:	-20°C to 50°C (-4°F to 122° F)
Storage Temperature:	-30°C to 80°C (-22°F to 158°F)
Humidity:	Operating: 95% relative humidity, non-condensing, at 50°C (122°F) Storage: 85% relative humidity, non-condensing, at 70°C (158°F)
Ambient Light:	Max 107,639 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
4 mil Code 39	8.4 cm (3.3 in.) / 22.4 cm (8.8 in.)
5 mil Code 128	7.1 cm (2.8 in.) / 20.8 cm (8.2 in.)
5 mil Code 39	5.08 cm (2.0 in.) / 34.3 cm (13.5 in.)
5 mil PDF417	7.9 cm (3.1 in.) / 21.3 cm (8.4 in.)
10 mil Data Matrix	7.4 cm (2.9 in.) / 25.7 cm (10.1 in.)
100% UPCA	4.6 cm (1.8 in.) Field of View Limited / 66.0 cm (26.0 in.)
20 mil Code 39	5.08 cm (2.0 in.) Field of View Limited / 76.2 cm (30.0 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](http://www.jadaktech.com)

