



L: 104 mm; W: 71 mm; H: 160 mm

### Features & Benefits:

- Custom Sensor Optimized for Barcode Scanning
- Three Focal Options (High Density, Standard Range, and Extended Range) For Application-Specific Scanning
- Image Processing Software Offers Advanced Editing Functionality to Produce High-Quality Digital Images
- Loading and Linking of Multiple Applications, Eliminating Need for Host System Modifications

## Superior Handheld 2D Imager

The 1900 features a custom sensor optimized for barcode scanning with industry-leading performance and reliability for a variety of applications that require the versatility of area-imaging technology. Delivering superior barcode scanning and digital image capture, the 1900 incorporates a revolutionary decoding architecture that combines Adaptus Imaging Technology 5.5 and Omniplanar's SwiftDecoder™ software along with a custom sensor. This enables extended depth of field, faster reading, and improved scanning performance on poor quality barcodes. From high density linear to 2D barcodes, the 1900 decodes virtually all barcodes with ease.

A new space-saving and reliable design mounts critical components on a single board, eliminating the need for connectors. With fewer components, downtime is minimized, resulting in increased productivity. The 1900's small form factor ensures that it fits well in virtually any sized hand, reducing operator fatigue.

Built with durability in mind, the 1900 can withstand up to 50 drops to concrete from distances as high as 6 feet. An IP41-rating provides added protection. With a solid-state design backed by a five-year warranty, the 1900 is constructed to deliver years of uninterrupted performance. Optional disinfectant-ready housing and durable construction makes it better able to resist the harmful effects of harsh chemicals.

### Applications:

- Mobile Devices
- Industrial
- Medical



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Performance			
Scan Pattern	Area Image (838 x 640 pixel array)		
Motion Tolerance	Up to 610 cm/s (240 in/s) for 13 mil UPC at optimal focus		
Scan Angle	HD Focus: Horizontal 41.4°, Vertical 32.2° SR Focus: Horizontal 42.4°, Vertical 33° ER Focus: Horizontal 31.6°, Vertical 24.4°		
Symbol Contrast	20% minimum reflectance difference		
Pitch, Skew	45°, 65°		
Decode Capability	Reads standard 1D, PDF, 2D, Postal and OCR symbologies (dependent on kit configuration)		
Warranty	5 year factory warranty		
Mechanical/Electrical			
Dimensions (L x W x H)	104 mm x 71 mm x 160 mm (4.1" x 2.8" x 6.3")		
Weight	147 g (5.2 oz.)		
Input Voltage	4 VDC to 5.5 VDC		
Operating Power	2.3 W (45mA @ 5VDC)		
Standby Power	.45 W (90mA @ 5VDC)		
Host System Interfaces	USB, Keyboard Wedge, RS232, IBM 46xx (RS485)		
Environmental			
Operating Temperature	0° to 50°C (32° F to 122° F)		
Storage Temperature	-40°C to 70°C (-40°F to 158°F)		
Humidity	5% to 95% noncondensing		
Drop Specifications	Designed to withstand 50 drops to concrete from 1.8m		
Environmental Sealing	IP41 (Water and Dust Resistant)		
Light Levels	0 to 100,000 lux (9,290 foot candles)		
Ratchet Cycles	Ratchet stand supports 10,000 cycles (each cycle is one full movement of scanner either up or down) without losing ability to keep scanner in any ratchet position		
Typical Performance (may be impacted by barcode quality and environmental conditions)	High Density (HD)	Standard Range (SR)	Extended Range (ER)
Narrow Width	0 mm – 91 mm (0" – 3.6")	36 mm – 127 mm (1.4" – 5")	114 mm – 198 mm (4.5" – 7.8")
5 mil Code 39	15 mm – 150 mm (.6" – 5.9")	13 mm – 401 mm (.5" – 15.8")	36 mm – 500 mm (1.4" – 19.7")
13 mil UPC	20 mm – 208 mm (.8" – 8.2")	18 mm – 480 mm (.7" – 18.9")	38 mm – 643 mm (1.5" – 25.3")
20 mil Code 39	0 mm – 94 mm (0" – 3.7")	15 mm – 137 mm (.6" – 5.4")	84 mm – 221 mm (3.3" – 8.7")
6.7 mil PDF417	0 mm – 104 mm (0" – 4.1")	15 mm – 178 mm (.6" – 7")	104 mm – 256 mm (4.1" – 10.1")
10 mil DataMatrix	18 mm – 173 mm (.7" – 6.8")	15 mm – 371 mm (.6" – 14.6")	18 mm – 467 mm (.7" – 18.4")
20 mil QR	3 mil (.076 mm)	5 mil (.127 mm)	5 mil (.127 mm)
Resolution 1D Code 39	5 mil (.127 mm)	6.7 mil (.170 mm)	7.5 mil (.191 mm)
Resolution 2D Data Matrix			

## 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.

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