1902

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

Features & Benefits:

- Wireless Connectivity Enables Movement up to 10m from Base, Reduces Interference with other Wireless Systems, and Allows up to 7 Imagers to Communicate with Single Base
- Long-Lasting Lithium-Ion Battery, Powers up to 50,000 Scan per Full Charge
- Flexible Power Management, Allowing User to Limit Radio Power Output of Scanner

Wireless Handheld 2D Imager

The 1902 features a custom sensor optimized for barcode scanning, providing industry-leading performance and reliability for a wide variety of applications that require the versatility of area-imaging technology plus the freedom of Bluetooth® wireless connectivity. 1902 incorporates a revolutionary decoding architecture that combines imaging technology with Omniplanar's SwiftDecoder™ software, enabling extended depth of field, faster reading, and improved scanning performance on poor quality bar codes. It decodes high density linear to 2D barcodes with ease.

1902 incorporates a Bluetooth Class 2, v2.1 radio, enabling unrestricted movement up to 33 feet (10m) from the base. The power management system provides up to 14 hours of battery life, maximizing productivity. For added convenience, a paging system helps locate misplaced scanners. A space-saving design mounts critical components on a single board, eliminating the need for connectors. A more reliable design with fewer components minimizes downtime and improves serviceability, resulting in increased productivity. Its small form factor ensures that the 1902 fits well in nearly any sized hand, reducing fatigue.

Built with durability in mind, the 1902 can withstand up to 50 drops to concrete from 6 feet. An IP41-rating provides added protection. With a solid-state design backed by a three-year warranty, the 1902 is constructed to deliver years of uninterrupted performance.

Applications:

- Mobile Devices
- Industrial Applications

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1902

Wireless	
Radio/Range	2.4 to 2.5 GHz (ISM Band) Adaptive Frequency Hopping Bluetooth v2.1; Class 2: 10 m line of sight
Data/Transmission Rate	2 Mbit/s (2.1 Mbit/s)
Battery	1800 mAh Li-ion minimum
Number of Scans	Up to 50,000 scan per charge
Expected Hours of Operation	14 hours
Expected Charge Time	4.5 hours
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
Pitch, Skew	45°, 65°
Scan Angle	HD: Horizontal: 41.4°; Vertical: 32.2° SR: Horizontal: 42.4°; Vertical: 33° ER: Horizontal: 31.6°; Vertical: 24.4°
Print Contrast	20% minimum reflectance difference
Decode Capabilities	Reads standard 1D, stacked, 2D and post symbologies; limited OCR font reading
Warranty	3 years factory warranty (battery warranty is 1 year)
Mechanical/Electrical	
Dimensions (L x W x H)	Scanner: 104 mm x 71 mm x 160 mm (4.1” x 2.8” x 6.3”) Charger/Communication Base: 132 mm x 102 mm x 81 mm (5.2” x 4” x 3.2”)
Weight	Scanner: 214 g (7.5 oz.); Charger: 179 g (6.3 oz.)
Operating Power (Charging)	5W (1A @ 5V)
Non-Charging Power	.5W (.1A @ 5V)
Host System Interfaces	USB, Keyboard Wedge, RS232, IBM 46xx (RS485)
Environmental	
Operating Temperature	Scanner & Charger when Not Charging: 0° to 50°C (32° F to 122° F) Charger when Charging: : 5° to 40°C (41° F to 104° F)
Storage Temperature	-40°C to 70°C (-40°F to 158°F)
Humidity	0% to 95% relative humidity, noncondensing
Drop Specifications	Scanner: Designed to withstand 50 drops to concrete from 1.8m Charger: Designed to withstand 50 drops to concrete from 1 m
Environmental Sealing	IP41
Light Levels	0 to 100,000 lux
EMI/RFI	FCC Part 15 Class B, ICES-003 Class B, EN 55022, EN 55024, EN 61000-6-2, AS/NZS 4268:2008, Japan VCCI
Environmental	Compliant with RoHS directive 2002/95/EEC

Typical Performance (may be impacted by barcode quality and environmental conditions)	**High Density (HD)**	**Standard Range (SR)**	**Extended Range (ER)**
Narrow Width			
5 mil Code 39	8 mm – 76 mm (.3” – 3”)	30 mm – 89 mm (1.2” – 3.5”)	107 mm – 135 mm (4.2” – 5.3”)
13 mil UPC	15 mm – 124 mm (.6” – 4.9”)	13 mm – 323 mm (.5” – 12.7”)	36 mm – 442 mm (1.4” – 17.4”)
20 mil Code 39	15 mm – 173 mm (.6” – 6.8”)	15 mm – 411 mm (.6” – 16.2”)	30 mm – 561 mm (1.2” – 22.1”)
6.7 mil PDF417	0 mm – 86 mm (0” – 3.4”_	18 mm – 140 mm (.7” – 5.5”)	84 mm – 206 mm (3.3” – 8.1”)
10 mil DataMatrix	0 mm – 84 mm (0” – 3.3”)	18 mm – 140 mm (.7” – 5.5”)	86 mm – 208 mm (3.4” – 8.2”)
20 mil QR	0 mm – 140 mm (0” – 5.5”)	0 mm – 262 mm (0” – 10.3”)	5 mm – 394 mm (.2” – 15.5”)
Resolution 1D Code 39	3 mil (.076 mm)	5 mil (.127 mm)	5 mil (.127 mm)
Resolution 2D DataMatrix	5 mil (.127 mm)	6.7 mil (.170 mm)	7.5 mil (.191 mm)

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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