Overview

The Xenon™ 1900 series, featuring sixth-generation Adaptus™ area-imaging technology, has redefined the standard for handheld scanners. With its custom sensor that’s optimized for aggressive barcode scanning, the Xenon series offers industry-leading performance and reliability for a wide variety of data collection applications.



Specifications

MECHANICAL

Dimensions (LxWxH)  
**1900/1900C - 1902/1902C Scanner:** 104 mm x 71 mm x 160 mm (4.1 in x 2.8 in x 6.3 in)   
**1902/1902C Base:** 132 mm x 102 mm x 81 mm (5.2 in x 4 in x 3.2 in)

Weight  
**1900/1900C:** 147 g (5.2 oz)   
**1902/1902C Scanner:** 214 g (7.5 oz)   
**1902/1902C Base:** 179 g (6.3 oz)

ELECTRICAL

Input Voltage  
**1900/1900C :** 4 VDC to 5.5 VDC   
  
OPERATING POWER  
**1900/1900C :** 2.3 W (450mA @ 5 VDC)   
**1902/1902C Scanner:** N/A   
**1902/1902C Base:**

* Charging 5 W (1A @ 5 V)
* Non-Charging 0.5 W (0.1A @ 5 V)

Standby Power  
**1900/1900C :** 0.45 W (90mA @ 5 VDC)

Battery  
**1902/1902C:** 1800 mAh Li-ion (minimum)

Expected Operation Time  
**1902/1902Ci:** 14 hours

Expected Charge Time  
**1902/1902C:** 4.5 hours

Number of Scans  
**1902/1902C:** 50,000 scans per charge

Host System Interfaces  
**1900/1900C :** USB, Keyboard Wedge, RS232, IBM 46xx (RS485)   
**1902/1902C Scanner:** N/A   
**1902/1902C Base:** USB, Keyboard Wedge, RS232, IBM 46xx (RS485)

BLUETOOTH  
**1902/1902C Radio/Range:** 2.4 to 2.5 GHz (ISM Band) Adaptive Frequency - Hopping Bluetooth v2.1; Class 2:10 m (33 ft) line of sight   
**1902/1902C Data Rate (Transmission Rate):** Up to 1 Mbit/s

ENVIRONMENTAL

Operating Temperature  
**1900/1900C :** 0°C to 50°C (32°F to 122°F)   
**1902/1902C Scanner:** 0°C to 50°C (32°F to 122°F)   
**1902/1902C Base:**

* Charging 5°C to 40°C (41°F to 104°F)
* Non-Charging 0°C to 50°C (32°F to 122°F)

Storage Temperature  
-40°C to +70°C (-40°F to +158°F)

Humidity  
0 to 95% relative humidity, non-condensing

Drop  
**1900 :**Designed to withstand 50 1.8 m (6 ft) drops to concrete Ratchet stand: Designed to withstand 50 1.2 m (4 ft) drops to concrete on each of the faces   
**1900C :** Designed to withstand 50 1.8 m (6 ft) drops to concrete   
**1902/1902C Scanner:** Designed to withstand 50 1.8 m (6 ft) drops to concrete   
**1902/1902C Base:** Designed to withstand 50 1 m (3.3 ft) drops to concrete

Environmental Sealing  
IP41

Light Levels  
0 to 100,000 lux (9,290 foot-candles)

Ratchet Cycles  
**1900:** The ratchet stand shall support 10,000 cycles (each cycle is one full movement of the scanner either up or down) without losing its ability to keep the scanner in any ratchet position

SCAN 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°   
**1900/1902:**ER Focus: Horizontal: 31.6°; Vertical: 24.4°

Print Contrast  
20% minimum reflectance difference

Pitch, Skew  
45°, 65°

Decode Capabilities  
Reads standard 1D, PDF, 2D, Postal and OCR symbologies \*Note: Decode capabilities dependent on kit configuration

Warranty  
**1900/1900C:** 5 year factory warranty   
**1902/1902C Scanner:** 3 year factory warranty (Note: battery warranty is 1 year)