RS507 Specifications

Physical Characteristics

Dimensions (H x W x L):	**Triggerless, standard battery:** 1.16 x 2.1 x 2.92 in. (2.9 x 5.3 x 7.4 cm) **Triggerless, extended battery:** 1.42 x 2.5 x 2.92 in. (3.6 x 5.3 x 7.4 cm) **Trigger, standard battery:** 1.16 x 2.1 x 2.92 in. (2.9 x 5.3 x 7.4 cm) **Trigger, corded (without cord):** 1.3 x 2.1 x 2.92 in. (3.3 x 5.3 x 7.4 cm)
Weight:	Triggerless, standard battery: 4.3 oz./121.4 g Triggerless, extended battery: 5.2 oz./146.4 g Trigger, standard battery: 4.8 oz./134.8 g Trigger, corded (with cord): 5.0 oz./140.8 g

Performance Characteristics

Optical Resolution:	WVGA 752 H x 480 V pixels (gray scale)
Roll:	360°
Pitch Angle:	± 60° from normal
Skew Tolerance:	± 60° from normal
Aiming Element:	655 nm ± 10 nm Visible Laser
Illumination Element:	637 nm ± 20 nm Red LEDs
Field of View:	Horizontal: 39.6°; Vertical: 25.7°

Nominal Working Distance from exit window):

Density 1D Code Type	5 mil 39	7.5 mil 39	20 mil 39	13 mil UPC
Near	2 in.			1.5 in.
Far	7.4 in.	10.5 in.	24.6 in.	15.4 in.

Density 2D Code Type	6.67 mil PDF417	10 mil PDF417	15 mil PDF417
Near	3.3 in.		
Far	7.0 in.	10 in.	14.6 in.

Ambient Light Immunity (from total darkness):	Indoor: 450 ft. candles (4,845 lux) Outdoor: 9,000 ft. candles (96,900 lux)
Motion Tolerance:	25 inch per second, typical
Supported Symbologies:	**1D enabled by default:** Codabar, Code 39, Code 128, EAN-13, EAN-8, Interleaved 2 of 5, UPC-A and UPC-E **Additionally supported by 1D:** Code 11, Code 32 Pharmaceutical (PARAF), Code 93, MSI, Reduced Space Symbology (RSS-14, RSS Limited, RSS Expanded), Straight 2 of 5 IATA (two-bar start/stop), Straight 2 of 5 Industrial (three-bar start/stop), Trioptic, UPC-E1 **2D enabled by default:** 4-CB (4-State Customer Barcode), Aztec, MicroPDF417, PDF417, MaxiCode **Additionally supported by 2D:** Australian Post, British Post (4 state code and "infomail"), Data Matrix, Japanese Post, KIX (Netherlands) Post, Planet Code, Postnet, QR Code, EAN/UCC Composite, TCIF Linked Code 39 (TLC39)
Supported Aiming Modes:	Class 2 Laser, cross hair with bright center for sunlight visibility; Pick List mode option

Interface:	**Cordless:** *Bluetooth:* Class II, v 2.1 with Adaptive Frequency Hopping (AFH) *Supporting profiles:* Serial Port Profile (SPP), Human Interface Device Profile (HID), Service Discovery Application Profile (SDAP) *Pairing:* by reading terminal BT address as barcode off the display **Corded (to WT4000):** Serial
Field Replaceable Parts:	Batteries, corded adaptor, trigger swivel, triggerless strap holder, comfort pad, straps and buckle

User Interface

LED:	Two (parallel), multi color, rear left and rear right
Beeper:	Rear center, up to 80 dBA SPL @ 10 cm
Restore Key:	User accessible for emergency boot up and Bluetooth reconnect (after excessive disconnection period)
Scan Triggering:	Manual or Automatic using Interactive Sensor Technology (IST)

User Environment

Operating Temperature:	-4° to 131° F/-20° to 55° C
Storage Temperature:	-40° to 158° F/-40° to 70° C excl. battery -40° to 140° F/-40° to 60° C incl. battery
Humidity:	5% to 85% (non-condensing)
Drop Specification:	6 ft./1.8 m multiple drops to concrete across operating temperature range
Sealing:	IP54
Electrostatic Discharge:	ESD: ±15kV air discharge, ±8kV direct discharge

Power

Cordless:	**Standard battery:** Li-Ion 970mAh, 3.7V with up to 35,000 scans (continuous) or up to 10 hours with 900 scans per hour on a single charge using fresh batteries. **Extended battery:** Li-Ion 1940mAh, 3.7V with up to 70,000 scans (continuous) or up to 20 hours with 900 scans per hour on a single charge using fresh batteries.
Corded:	Corded adaptor to WT4000

Software Compatibility

Motorola's Mobility Services Platform (MSP); DataWedge; Wavelink's Terminal Emulation (TE)

Peripherals and Accessories

Battery charger:	Charges eight (8) standard and extended batteries simultaneously in 4 hours. Includes LED indicators (8) and battery age test.

Regulatory

Electrical Safety:	Certified to UL60950-1, CSA C22.2 No. 60950-1, EN60950-1, IEC 60950-1
Laser Safety:	CDRH Class II, IEC 60825-1 Class 2
EMI/RFI:	FCC Part 15 Class B, ICES-003 Class B, European Union EMC and R&TT Directives, Australian AS/NZS 60950.1
RoHS:	Compliance with RoHS standards

Recommended Services

Service from the Start with Comprehensive Coverage

New manual triggering mechanism with easy swivel
Latest PUSHGATE® technology provides maximum durability and reliability, rated for millions of actuations — providing the extended lifecycle required for scan intensive applications; easily switches from right to left hand use

Rugged design: magnesium chassis, 6 ft./1.8m drop specification, IP54 sealing, extended operating temperature range (-4° to 131° F/-20° to 55° C)
The most rugged hands-free scanner/imager available today; provides dependable performance in demanding environments

Dual rear LEDs and high power beeper
Visible and audible notifications provide scan confirmation, even in low lighting or noisy environments

Enterprise Mobility Developer's Kit (EMDK)
Enables rapid and easy application development for the host mobile computer; supports configuration of the RS507

Battery age testing
Protects user uptime by enabling enterprises to quickly identify and replace batteries that have reached end-of-life

RoHS compliant
Meets RoHS requirements