

SPECIFICATIONS

ZEBRA WS50 ANDROID WEARABLE COMPUTER

CAN BE WORN ON A WRIST, TWO FINGERS, OR THE BACK OF THE HAND



PHYSICAL CHARACTERISTICS

Dimensions:

2.44 in. (L) x 2.32 in. (W) x 0.71 in. (D) / 62 mm (L) x 59 mm (W) x 18 mm (D)

Wrist (with mount): 2.91 in. (L) x 2.51 in. (W) x 0.751 in. (D)

/ 74 mm (L) x 64 mm (W) x 19 mm (D)

Converged: 2.52 in. (L) x 2.44 in. (W) x 1.10 in. (D)

/ 64 mm (L) x 62 mm (W) x 28 mm (D)

Weight:

Wrist (device): 2.47 oz./70 g

Wrist (with mount): 3.95 oz./112 g

Converged: 4.73 oz./134 g

Display: 2 in. AMOLED 460 x 460 color display; optically bonded to touch panel

Imager Window: Corning™ Gorilla™ Glass

Touch Panel: Capacitive touch panel; fingertip and glove support; Corning™ Gorilla™ Glass

Power:

Standard (Wrist): 3.08 Watt Hours; 800 mAh,

High Capacity (Converged): 5 Watt Hours; 1300 mAh, PowerPrecision; Hot Swap (2 minutes, memory persistent)

Network Connections:

USB 2.0 High Speed (host and client), WLAN and Bluetooth

Notifications:

Audible tone; charge LED; OS notification LED; multi-colour Application LEDs (2); haptic feedback

Voice and Audio:

Speaker (90dBA); internal mic; PTT ready; Bluetooth headset support

Buttons:

Wrist: 4 buttons (programmable)

Converged: trigger; 2 buttons (programmable)

Interfaces: Docking contacts; Via interface cables: USB-C (USB 2.0) host/client and charging

SCANNER PERFORMANCE

Optical Resolution: 1280 x 800 pixels

Roll: 360°

Pitch: ±60°

Skew: ±60°

Aiming Element: 655 nm Laser

Illumination Element: 1 Hyper Red 660 nm LED or 1 Warm-White LED

Field of View: Horizontal: 48°, Vertical: 30°

Ambient Light Immunity: (From total darkness):

Maximum 107,639 lux (direct sunlight).

Supported 1D Symbologies: Code 39, Code 128, Code 93, Codebar/NW7, Code 11, MSI, UPC/EAN, I 2 of 5, Korean 3 of 5, GS1 DataBar, Base 32 (Italian Pharma)

Supported 2D Symbologies:

PDF417, Micro PDF417, Composite Codes, TLC-39, Aztec, DataMatrix, MaxiCode, QR Code, Micro QR, Chinese Sensible (Han Xin), Postal Codes

Supported OCR Symbologies: OCR-A, OCR-B

Scan Triggering:

Manual ambidextrous trigger or automatic via Proximity Sensor technology

PERFORMANCE CHARACTERISTICS

CPU: Snapdragon Wear™ 4100 Platform/SDW429w, quad-core, 2.0 GHZ

Operating System: Android 11 AOSP

Memory: 1 GB RAM/8 GB Flash

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USER ENVIRONMENT

Operating Temperature: 14° F to 122° F/-10° C to +50° C

Storage Temperature: -40° F to 158° F/-40° C to +70° C

Humidity: 5-95% non-condensing

Drop Specification:

Wrist: 4 ft./1.2 m drop to concrete per MIL-STD 810G across operating temperature.

Converged: 6 ft./1.8 m drop to tile over concrete per MIL-STD 810G across operating temperature

Tumble Specification:

Wrist: 1,000 tumbles @ 1.6 ft./0.5 m

Converged: 2,000 tumbles @ 1.6 ft./0.5 m. Meets and exceeds IEC tumble specifications

Sealing: IP65**Vibration:**

4 g's PK Sine, 5hz to 2khz, 1 hour duration per axis; 0.04 g2/Hz Random (20 Hz to 2 kHz), 1 hour duration per axis

Electrostatic Discharge:

+/-15 kV air discharge, +/-8 kV direct/indirect discharge+/- 8 kVdc indirect discharge

INTERACTIVE SENSOR TECHNOLOGY (IST)

Light Sensor: Automatically adjusts display backlight brightness

Motion Sensor: 6-axis accelerometer with MEMS Gyro

DATA CAPTURE

Scanning:

Converged: SE4770 1D/2D standard range omni-directional imager

Wrist: 13 MP camera with flash, or no data capture option

Camera: F13 MP with Flash (Wrist only)

NFC:

Tap to Pair, ISO 14443 Type A and B, Felica and ISO 15693 cards, and Card Emulation via Host (HCE) support

Scan Triggering: Manual or automatic via proximity sensor technology

THE BOWE IQ SOFTWARE EFFECT

While BOWE IQ's mobile computers are available as a standalone product, they really come into their own when embedded into an intelligent BOWE IQ Cloud software ecosystem with all the necessary functions for asset tracking, inventory management, work-in-process, and/or workflow design. Its versatility also means that customers can start with a basic installation and easily scale upwards as needs evolve.



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