

# 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 Symbolologies:** Code 39, Code 128, Code 93, Codebar/NW7,  
Code 11, MSI, UPC/EAN, I 2 of 5, Korean 3 of 5, GSI DataBar, Base 32  
(Italian Pharma)

**Supported 2D Symbolologies:**

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

**Supported OCR Symbolologies:** 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

### 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.

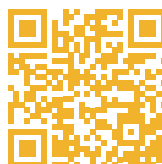


### CONTACT US TO DISCUSS:

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