www.newlandaidc.com

Newland AIDC
Scanning Made Simple

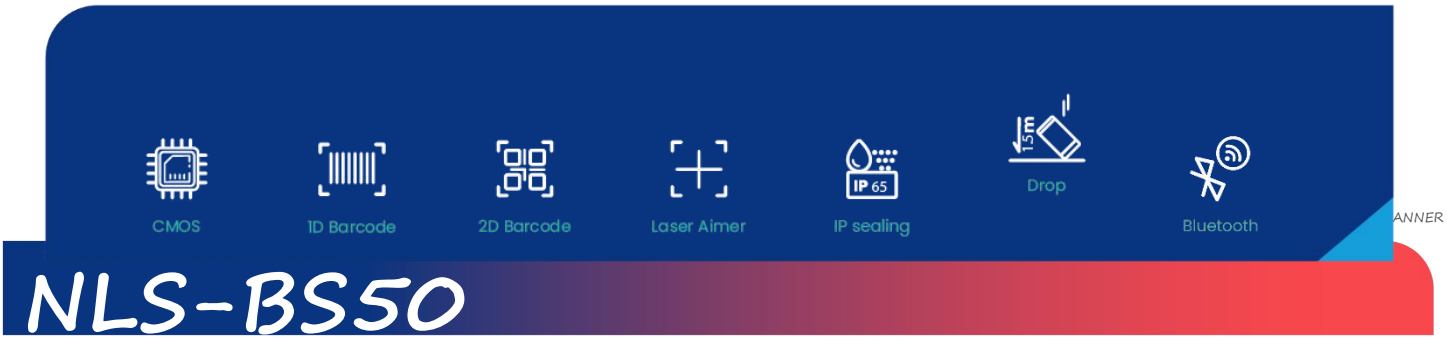
NLS-BS50

WIRELESS 2D WEARABLE SCANNER

FEATURES

- **Outstanding Performance**
  Equipped with Newland latest technology, the scanner can effortlessly capture high-density, high-volume and distorted barcodes printed on paper or displayed on screen.

- **Reliable and Stable Wireless Communication**
  Adopting the Bluetooth 5.0 which is strong anti-interference and stable to transmit the data.



NLS-BS50

Performance

Image Sensor		1280×800 (megapixel) CMOS
Illumination		White LED
Aiming		650nm Laser (SR: crosshair laser; MR: dot laser)
Symbologies	2D	PDF417, QR Code, Micro QR, DataMatrix, Aztec, MaxiCode, Chinese Sensible Code, GM Code, Micro PDF417, CODEONE
	1D	EAN-8, EAN-13, UPC-E, UPC-A, Code128, UCC/EAN128, I2Of5, ITF14, ITF6, Matrix 25, CodaBar, Code39, Code93, ISSN, ISBN, Industrial25, Standard25, Plessey, Code11, MSI Plessey, UCC/EAN Composite, GS1 Databar, China Post 25, Code 49, Code 16K
	OCR	Specific OCR-B, Passport OCR, Chinese ID Card, China Travel Permit OCR
	Postal	US PostNet, US Planet, UK Postal, Australia Postal, Japan Postal
Resolution*		≥3mil
Typical Depth of Field*		SR / MR
		EAN-13 (13mil): 65mm-540mm / EAN-13 (13mil): 60mm-850mm
		Code 39 (5mil): 120mm-330mm / Code 39 (20mil): 80mm-1300mm
		PDF 417 (6.7mil): 125mm-240mm / Code 128 (5mil): 190mm-300mm
		Data Matrix (10mil): 125mm-240mm / Data Matrix (10mil): 160mm-300mm
		QR Code (15mil): 40mm-360mm / Code 39(100mil): 250mm-3500mm
Scan Angle**		Tilt: 360°; Pitch: ±65°; Skew; ±75° / Tilt: 360°; Pitch: ±60°; Skew; ±70°
Field of View		Horizontal 40°, Vertical 25° / Horizontal 33°, Vertical 21°
Min. Symbol Contrast*		25%

Physical

Dimension (LxWxH)	58.8×48.8×18mm
Weight	Scanner: 43g
Notification	Beep, LED and vibration
Operating Voltage	5VDC±5%

Wireless

Communication Mode	Bluetooth BLE, Bluetooth HID Modes
Radio Technology	Bluetooth 5.0
Communication Distance	80m (open space)
Battery	670 mAh lithium-ion battery
Expected Charge Time	<2 hours (with power adapter)
Expected Battery Life	10 hours of continuous operation (scan once per 15 seconds)

Environmenta

Operating Temperature	-20°C to 50°C (-4°F to 122°F)
Storage Temperature	-40°C to 70°C (-40°F to 158°F)
Battery Charge Temperature	0°C to 45°C (32°F to 113°F)
Humidity	5% to 95% (non-condensing)
ESD	±8 KV (contact discharge); ±15 KV (air discharge)
Drop	1.5m/4.92ft
Sealing	IP65

Certificates

Certificates & Protection	CE RED, FCC ID, RoHS, SRRC, IEC 62471 (on-going)

*Test conditions: T=23℃; Illumination=300lux using incandescent lamp; sample printed barcodes made by Newland.

**Test conditions: Scan Distance= (min. DOF + max. DOF)/2; T=23°C; Illumination=300lux using incandescent lamp;

1D: EAN-13 (13mil).

Specifications are subject to change without notice.

Version: preliminary

FCC Statement

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.