NWEAR
BY NEWLAND

1D & 2D | Acuscan | Laser aimer | CMOS | Bluetooth 5.0 | IP65

1.5m drop | EasySet | Warranty 2 Years

WD2 Wearable Scanner

Nwear

Features

Outstanding Performance

Equipped with Newlands 2D Megapixel scanning technology, the WD2 can effortlessly capture high-density, high volume and distorted barcodes printed on a wide range of materials. The mid-range version can capture codes from further away than normal and scan a wide variety of barcodes that standard range scanners may struggle with.

Taking careful aim

The Standard range uses a red aiming crosshair design that enables the use of Acuscan for precision scanning on smaller codes. Even when codes are grouped close together, Acuscan enables workers to set their sights with confidence for picking the exact item they need. The mid-range version uses a single red dot that can be seen from a greater distance for pin-pointing larger, isolated codes.

Daisy Chain charging

The WD2 has a compact two-bay charging station powered via a USB-C cable or a multi-region PSU. The cradle has fixing points for mounting, and the quick click docking magnets keep the WD2 securely in place even if mounted vertically. The cradles can be linked together to create a 4, 6, 8 or 10 bay multi dock cradle, optimized to 100% charging efficiently via a single PSU.

Hands-free working

The WD2 connects to an Electronic Hand Strap with an integrated scan trigger comfortably positioned between thumb and forefinger. It is available for both right- and left-handed operators and comes in two sizes to cater to small/medium and large hands. The large strap will also fit over thicker gloves for cold or heavy-duty applications. The scanner will stay secure with a quick click docking magnet and additional securing strap until the operator wants to remove it. The ergonomics and lightweight make it perfect for long-sustained scanning applications where “two hands are better than one.”

Stable wireless communication

The WD2 uses a strong anti-interference Bluetooth 5.0 technology. When used with the WD1 Android wrist-mounted solution, the WD2 can be directly paired by scanning an onscreen 2D barcode.

Suggested industries

Logistics | Postal | Warehousing

WD2 Wearable Scanner Technical specifications

Performance	
Image Sensor	1280x800 (megapixel) CMOS
Illumination	White LED
Aiming	650nm Laser (SR: crosshair laser; MR: dot laser)
Depth of Field EAN 13 (13mil)	SR: EAN-13 (13mil): 65mm-540mm / MR: EAN-13 (13mil): 60mm-850mm
Depth of Field Code 39 (5mil)	SR: Code 39 (5mil): 120mm-330mm / MR: Code 39 (20mil): 80mm-1300mm
Depth of Field PDF417 (6.67mil)	SR: PDF 417 (6.7mil): 125mm-240mm / MR: Code 128 (5mil): 190mm-300mm
Depth of Field Data Matrix (10mil)	SR: Data Matrix (10mil): 125mm-240mm / MR: Data Matrix (10mil): 160mm-300mm
Depth of Field QR (15mil)	SR: QR Code (15mil): 40mm-360mm / MR: Code 39(100mil): 250mm-3500mm
Minimal Print Contrast	25%
Scan Angle Roll	SR: 360° / MR: 360°
Scan Angle Pitch	SR: ±65° / MR: ±60°
Scan Angle Skew	SR: ±75° / MR: ±70°
Field of View Horizontal	SR: 40° / MR: 33°
Field of View Vertical	SR: 25° / MR: 21°
Data Capture	
Barcode scanning	OCR: Specific OCR-B, Passport OCR, Chinese ID Card, China Travel Permit OCR
Barcode scanning	Postal: US PostNet, US Planet, UK Postal, Australia Postal, Japan Postal
1D	EAN-8, EAN-13, UPC-E, UPC-A, Code128, UCC/EAN128, I2Of5, ITF14, ITF6, Matrix 25, CodaBar, Code39, Code32(Italian Pharma Code), Code93, ISSN, ISBN, Industrial25, Standard25, Plessey, Code11, MSI Plessey, UCC/EAN Composite, GS1 Databar, China Post 25, Code 49, Code 16K
2D	PDF417, QR Code, Micro QR, DataMatrix, Aztec, MaxiCode, Chinese Sensible Code, GM Code, Micro PDF417, CODEONE
Physical	
Dimensions (mm)	58.8×48.8×18mm
Weight	Scanner: 43g
Battery Type	670 mAh lithium-ion battery
Expected Battery Life	10 hours of continuous operation (scan once per 15 seconds)
Expected Charge Time	<2 hours (with power adapter)
Notifications	Beep, LED and vibration
Current @ 5VDC Operating	5VDC±5%
Environmental	
Operating Temperature	-20°C to 50°C (-4°F to 122°F)
Storage Temperature	-40°C to 70°C (-40°F to 158°F)
Storage Temperature	Battery Charge Temperature: 0°C to 45°C (32°F to 113°F) (needs adjusting in tech label)
Humidity	5% to 95% (non-condensing)
Electro Static Discharge (ESD)	±8 KV (contact discharge); ±15 KV (air discharge)
Drop	1.5m/4.92ft

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Specifications are subject to change without notice

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SCANNING MADE SIMPLE

IP Rating	IP65
Wireless	
WWAN RADIO	Radio technology: BT 5.0 (needs adjusting in tech label)
Wireless Distance (max.)	80m (open space)
Communication Modes	Bluetooth BLE, Bluetooth HID Modes
Software	
Configuration Tools	EasySet
Certifications	
Software	CE RED, FCC ID, RoHS, SRRC, IEC 62471 (on-going) (needs adjusting in tech label)
Warranty	
Standard	2 years

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