Newland AIDC
SCANNING MADE SIMPLE

HR33 Marlin AI Bluetooth

General Purpose Handheld Scanners



1.8m drop | 1D & 2D | 2,600 mAh | Acuscan | Advanced Scripting | AI-Powered Barcode Detection

Bluetooth 5.0 | EasySet | GS1 Ready | IP52 | Laser Aimer | Megapixel

OCR | USB | Warranty 5 Years



Features

Easily replaceable battery.
The HR33 Marlin AI Bluetooth offers over 12 hours of continuous use on a single charge. If the battery runs out, the compartment features a latch-release opening for convenient replacement without interrupting your tasks. Additionally, the low-battery indicator features two colors, providing a quick visual cue when it's time to change the battery. The new magnetic contact on the stand ensures easy connectivity and high reliability.

High Connectivity.
The HR33 Marlin AI Bluetooth scanner boasts Bluetooth 5.0 connectivity and can scan items within a range of 100 meters in open spaces. Whether you connect the communication and charging stand directly to a device via Bluetooth or use it with a dongle, the Marlin ensures a reliable wireless connection.

AI-Powered Scanning Technology.
The HR33 Marlin AI Series is equipped with Newland's UIMG and AI-Powered Barcode Detection scanning technologies. These advanced systems enable rapid, accurate, and reliable decoding of both 1D and 2D barcodes, even when damaged or distorted, and on reflective and curved surfaces. AI-powered devices use computer vision and self-learning to interpret barcodes accurately. They efficiently analyze images to detect, locate, and read barcodes. The HR33 Marlin AI Series excels in challenging conditions, demonstrating advanced decoding performance and providing a reliable scanning solution that functions flawlessly in any situation.

Scan & send or collect & send.
The HR33 Marlin AI Bluetooth scanner features configurable modes that enable users to perform real-time scans and send data wirelessly. Additionally, it offers two types of offline storage for batch data

Scan with Precision.
The HR33 Marlin AI Series scanner is designed for precise barcode scanning. It features a laser aimer for accurate targeting and Acuscan aiming technology, which ensures that a single press of the trigger captures the correct barcode, even when multiple barcodes are nearby. Additionally, it comes with a megapixel sensor capable of reading various types of barcodes, including damaged or distorted ones, making it ideal for high-density workloads. The Marlin also boasts advanced OCR (Optical Character Recognition) capabilities for efficient data recognition and supports Digimarc digital watermark technology to enhance scanning efficiency further.

Advanced Scripting.
The HR33 Marlin AI Series scanner features Advanced Scripting, allowing users to customize and automate the scanner's behavior by writing scripts in the programming language, Lua. This capability enables users to control how the scanner processes and interprets barcode data. While EasySet remains available for those who prefer it, the addition of Advanced Scripting provides even greater detail and customization. As a result, the HR33 Marlin AI Series is considered the best in its class.

Be confident with Newland.
The HR33 Marlin AI Series offers users confidence with an IP52 rating, a 1.8m drop specification, and a 5-year warranty. Newland AIDC EMEA presents a scanner that's up for the job, no matter the environment.

sending. The scanner's memory can store thousands of codes, if necessary.

5 Years Full Warranty

EasySet

TECHNICAL SPECIFICATIONS

HR33 Marlin AI Bluetooth

Data Capture

1D	Code 11, Code 128, Code39, GS1-128(UCC/ENA-128), AIM 128, ISBT 128,Codabar, Code 93, UPC-A, UPC-E, Coupon, GSI Composite, EAN-13, EAN-8, ISSN, ISBN, Interleaved 2 of S, Matrix 2 of S, Industrial 2 of S, IT F-6, ITF-14, Standard 2 of 5,China Post 25, MSI-Plessey, Plessey, GS1Databar(RSS), Code 49, Code 16K.
2D	PDF417,QR Code, Micro QR, Data Matrix, Aztec, Maxi Code, Chinese Sensible Code, GM Code, Micro PDF417, Code One, Dotcode, Digimarc
Aiming	Laser
Depth of Field Code 39 (5mil)	30 mm - 270 mm
Depth of Field DataMatrix (10mil)	20 mm - 245 mm
Depth of Field EAN 13 (13mil)	35 mm - 535 mm
Depth of Field PDF417 (6.7mil)	35 mm - 215 mm
Field of View Horizontal	48˚
Field of View Vertical	30˚
GS1 Ready	Yes
Illumination	White LED
Image Sensor	1280 x 800 CMOS
Minimal Print Contrast	15%
OCR	Default: Passport OCR,Chinese ID Card, China Travel Permit OCR. Optional: date and general alphanumeric recognition.
Resolution	≥3mil
Scan Angle Pitch	±60˚
Scan Angle Roll	360˚
Scan Angle Skew	±65

Performance

Memory Flash	≥16,384 code entries (above 60 bytes)

Physical

Battery Type	2,600 mAh lithium-ion
Dimensions	Scanner: 117.5(L)×67.5(W)×144(H)mm; Cradle: 140(L)×90(W)×144.5(H)mm
Expected Battery Life	≥15 hours of continuous operation (scan once per 6 seconds)
Expected Charge Time	≤6 hours
Input Voltage	5 VDC ±5%
Interfaces	USB-A, USB-KBW, USB-CDC, HID-POS

Notifications	Beep, Vibration, LED
Weight	Scanner: 210 g; Cradle: 340,5 g

Wireless

Communication Modes	Synchronous, Asynchronous, Batch
Radio Technology	Bluetooth 5.0
Wireless Distance (max.)	≥100 m (in open space)

Environmental

Charge Temperature	0°C to 45°C (32°F to 113°F)
Drop	1.8m drops to concrete
Electro Static Discharge (ESD)	±8 kV (contact discharge), ±15 kV (air discharge)
Humidity	5% to 95% (non-condensing)
IP Rating	IP52
Operating Temperature	-20°C to 50°C (-4°F to 122°F)
Storage Temperature	-40°C to 70°C (-40°F to 158°F)

Software

Configuration Tools	EasySet

Certifications

Certifications Hardware	CE RED, FCC ID, RoHS 2.0, IEC 62471, IEC 60825

Warranty

Comprehensive Service Contract	3 Years, 5 Years
Warranty Standard	5 Years

Accessories

Accessories Optional	Wall mount clip
Accessories Standard	Stand/Docking station, USB cable

What's in the box?

NLS-HR3300-V2-BT	HR33 Marlin AI Bluetooth, USB cable, Stand/docking station

Accessories

Charging/Power	NLS-BTY2333 Battery for HR23 and HR33 Series (NLS-BTY2333) NLS-CD3233-4C 4-slot Battery Charger for HR23 and HR33 Series (NLS-CD3233-4C)
Base Stations	NLS-STD-WM001 Wall Mount Clip for HR Series (NLS-STD-WM001)

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