



**Newland AIDC**  
Scanning Made Simple



# Product Catalog

Making everyday tasks easier, faster  
and more intuitive.

# OVERVIEW

## Newland AIDC

As one of the world-leading companies in automatic identification and data capture, Newland AIDC empowers your workforce in retail store floor, warehouse & distribution center, manufacturing facility and other industries to transform your business with full data visibility and accuracy.

With our global sales & services network, we are committed to offering cutting-edge data capturing technology that helps our enterprise customers to win.



Data Capture



Traceability



Mobile Payment



Cloud & Big Data



Transportation & Logistics





# OUR STRENGTH

## MEMBER OF NEWLAND GROUP

Newland AIDC (Newland Auto-ID Tech. Co., Ltd.), founded in 1999, is a wholly-owned subsidiary of Newland Digital Technology Co., Ltd. (a listed company, Stock code: 000997) and a member company of Newland Group (Newland Hi-Tech Group Co., Ltd., founded in 1994).

With more than 30 member companies, Newland Group covers 3 high-tech territories -- Information Technology, Internet of Things and Big Data, and provides leading solutions and services including Payment, auto-identification, Telecommunication, Software, Education, etc.

The important acquisitions of Perceive World Technology Co., Ltd. and Speedata were made by Newland, which shined the product portfolio of Newland AIDC with mobile terminal embranchment.



## LEADING IN INDUSTRY

Newland AIDC, with over 20 years of R&D in data capturing & enterprise mobility, is the industry-leading company in China and well-known expert in global market. It is the only company in China that has full stack 2D barcode technology, and the only company that makes 2D decoder ASIC in the world.

Newland owns more than 200 patents related to barcode products/technology:

- 5 patents in USA and 5 patents in Europe.
- 120 patents for IC and 50 patents for scan engine in China.
- 22 patents in 2D barcode IOT business in China.



O2O



IOT



Intelligence



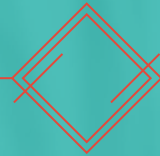
Digitalization



## TECHNOLOGY

As the result of decade's dedication to imaging-based decoding technology, Newland AIDC's exclusive **UIMG®** technology is highly admitted as:

- High-quality digital image capture technology
- Intelligent image processing and decoding technology
- High-performance embedded computing platform
- Embedding application development technology



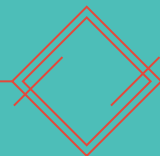
## ADVANCED FACILITIES

From R&D to mass production, Newland AIDC is equipped with comprehensively advanced instruments for experiments, including environmental, mechanical, electrical, safety testing, etc. Professional facilities including radiation anechoic chamber, automatic scanning DOF, speed testing, optical lens testing, etc.

Newland AIDC owns the laboratory approved by CNAS specified in barcode testing, where the generated reports are acknowledged by CNAS mutual recognition organizations amount 80 economy entities worldwide.

## EXCELLENT SUPPLY CHAIN MANAGEMENT

- ISO20000, ISO9001 and ISO14000 certified
- Stabilized multi-channels for key components supply
- Owns 2000 m<sup>2</sup> modernized factory, including dust-free workshop and engine assembling line. Additional outsourcing factories covering over 10000 m<sup>2</sup>



## CUSTOMIZATION ABILITY

By partnering with Newland AIDC, you will get to leverage our industry-leading technologies and the agile R&D team, shorten the development cycle, and optimize your spending on development, from demand insight to solutions, from engineering to mass production.

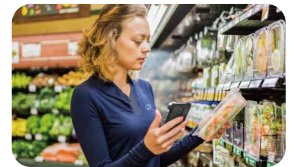
Your incumbent market position + Newland's proven track record of success = Maximum of ROI.



# INDUSTRIAL SOLUTIONS

Real-time and accurate data is essential for your business success nowadays, the higher the quality, the bigger chance to win.

With industry-leading barcode decoding technology, Newland AIDC is committed to providing customers with reliable and efficient solutions to reinforce varieties of industries including retail & hospitality, transportation & logistics, manufacturing, healthcare, mobile payment, etc.



Retail



Mobile Payment



Embedded Solutions



Healthcare



Public Sector



Transportation & Logistics





# HANDHELD SCANNER >

## CORDED HANDHELD SCANNER

### HR10



- Support 1D barcodes
- Depth of field: 50–480 mm
- Up to 300 scans per second
- Very low power consumption (<130mA)



### HR11P



- Support 1D barcodes
- Depth of field: 40–480 mm
- Up to 300 scans per second
- Optional accessories: foldable smart stand



### HR20



- Support 1D and 2D barcodes
- Depth of field: 50–260 mm
- Optional accessories: foldable smart stand
- Ideal for applications at POS
- Optional for healthcare version



### HR32

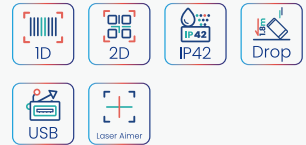


- Support 1D and 2D barcodes
- Depth of field: 45–510 mm
- Optional accessories: foldable smart stand
- Optional for healthcare version



**HR42**

- Support 1D and 2D barcodes
- Capable of reading high-density barcodes
- White LED illumination
- Depth of field: 25-160 mm
- Acuscan: accurate "point-to-read" feature
- Ultra-rugged construction
- Optional accessories: foldable smart stand

**CORDLESS HANDHELD SCANNER**

NEW

**HR15-BT**

- Support 1D barcodes
- Depth of field: 55-550mm
- Communication distance 50m/164ft
- More than 15 hours of continuous operation (scan once per 6s)
- Store more than 15,000 code entries (Code 128, 20 bytes)
- Adjustable charging & communication cradle for sense and handheld modes
- Via Bluetooth 5.0 BLE/HID connection
- Support iOS / Android / Windows



NEW

**HR20-BT**

- Support 1D and 2D barcodes
- Depth of field: 45-260 mm
- Support iOS / Android / Windows
- Dual pairing modes:
  - Direct Bluetooth 5.0 connection by HID/BLE
  - Delivered with a Bluetooth USB dongle for plug-and-play convenience

**HR32-BT**

- Support 1D and 2D barcodes
- Depth of field: 50-495mm
- Unique dual illumination system: white, red
- Communication distance 50m/164ft
- More than 12 hours of continuous operation (scan once per 6s)
- Adjustable charging & communication cradle for sense and handheld modes
- Support iOS / Android / Windows
- Via Bluetooth 5.0 BLE/HID connection
- Optional for healthcare version





NEW

**HR52-BT**

- Support 1D and 2D barcodes
- Depth of field: 50-555mm
- Communication distance 50m/164ft
- Store more than 15,000 code entries (Code 128, 20 bytes)
- More than 12 hours of continuous operation (scan once per 6s)
- White LED illumination
- Adjustable charging & communication cradle for sense and handheld modes
- Acuscan: accurate "point-to-read" feature
- Via Bluetooth 5.0 BLE/HID connection
- Support iOS / Android / Windows

**INDUSTRIAL HANDHELD SCANNER****NVH300-HD**

- Support 1D and 2D barcodes
- Excellent DPM decoding capability
- Acuscan: accurate "point-to-read" feature
- Suggestion: automobile, electronic, healthcare, etc.
- Ideal for track and trace on the industrial manufacturing production line

**NVH300-DP**

- Support 1D and 2D barcodes
- Excellent DPM decoding capability
- Advanced illumination system: white, red, blue
- Acuscan: accurate "point-to-read" feature
- Suggestion: automobile, electronic, healthcare, etc.
- Ideal for track and trace on the industrial manufacturing production line

**COMPANION SCANNER**

NEW

**BS30**

- Support 1D and 2D barcodes
- Depth of field: 40-550mm
- Support iOS / Android / Windows
- Via Bluetooth 5.0 BLE/HID connection
- Acuscan: accurate "point-to-read" feature
- Suggestion: Enterprise customers who are using consumer devices like mobile phones, tablets, but professional scanning needed for extension
- Size: 110.8(L) × 62.3(W) × 10.6(H)mm, weight: 53g



**BS80**

- 2 optional models: 1D CCD / 2D CMOS
- Depth of field:
  - 1D: 55-410mm
  - 2D: 60-380mm
- Support iOS / Android / Windows
- Via Bluetooth 4.0 BLE/SPP/HID connection
- Optional for healthcare version
- Size: 88(L) × 46(W) × 24.5(H)mm, weight: 62g



## DESKTOP SCANNER

**FR20**

- Support 1D and 2D barcodes
- Scan window: 82x64mm
- Optimized design for barcodes on LCD / mobile devices
- Size: 100.3(L) x 120.3(W) x 102.8(H)mm



NEW

**FR27**

- Support 1D and 2D barcodes
- Excellent reading performance for barcodes displayed on mobile devices
- Superior motion tolerance 2.7m/s
- Stylish and compact design for space-limited counters
- Size: 66.3(L) x 76.3(W) x 38(H)mm

**FR40**

- Support 1D and 2D barcodes
- Depth of field: 10-210mm
- Presentation scanner with adjustable scan angles
- Switch to toggle between paper and screen mode
- Size: 83.0(L) x 81.0(W) x 148.0(H)mm







TO BE RESEALED

## FR42-BT



- Support 1D and 2D barcodes
- Depth of field: 10-130mm
- Via Bluetooth 5.0 BLE/HID connection
- Support iOS / Android / Windows
- 16 hours of continuous operation (scan once per 10 seconds)
- Replaceable Battery 2000mAh with USB/Type-C connector



NEW

## FR80



- Megapixel Imager, support 1D and 2D barcodes
- Depth of field: 0-140mm
- Ultra fast motion tolerance 3.5m/s
- Ideally suited for retail checkout
- Size: 151(L) × 108.5(W) × 156.5(H)mm

WEARABLE  
DEVICE

TO BE RELEASED

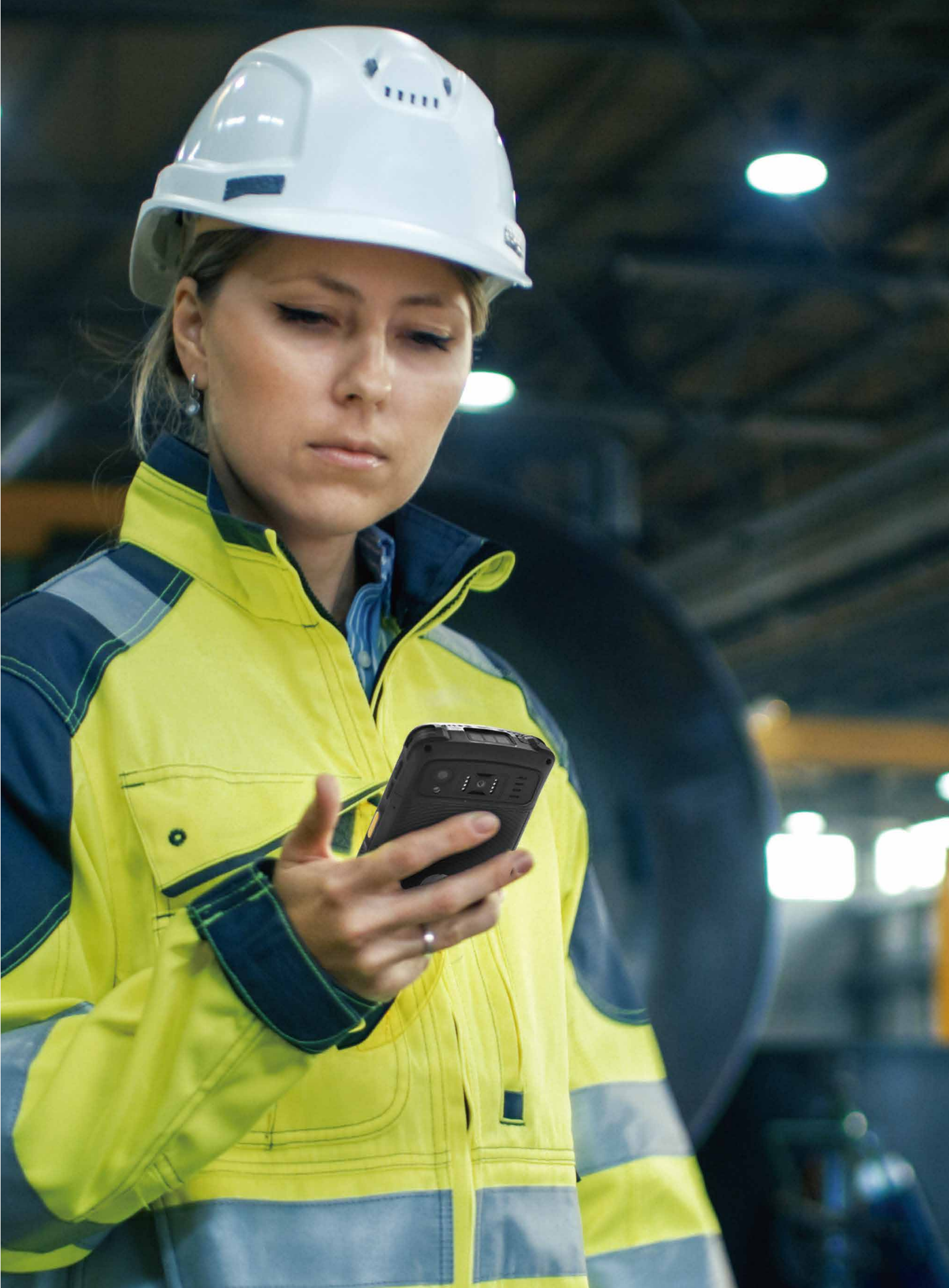
## BS50



- Support 1D and 2D barcodes
- Depth of field: 65-540mm
- Support iOS / Android / Windows
- Via Bluetooth 5.0 BLE/HID connection
- Optional for Gloves (Size SM/L, Left/Right)
- Optional for 2-slot charging cradle  
(Can be installed in series to 6-slot charging station)
- Communication Distance: 80m/262ft
- 10 hours of continuous operation (scan once per 15 seconds)
- Size: 58.8(L) × 48.8(W) × 18(H)mm, weight: 43g







NEW

## WD1



- Build on Quad-core, 3GB RAM + 32GB ROM
- 13 megapixels camera, support 1D&2D barcodes scanning
- Battery 3300mAh
- Dual microphone, noise reduction
- Suggestion: logistic, warehouse management, inventory, etc.
- Size (Dial plate): 77.0(L) × 56.0(W) × 17.8(H)mm, weight: 143g

MOBILE  
TERMINAL >

NEW

## MT67



- Build on Octa-core, 4GB RAM + 64GB ROM
- Megapixel scan engine
- Replaceable Battery 4800mAh
- Optional accessories: rubber boot, hand strap, wrist lanyard, pistol grip, charging cradle, 4-slot spare battery charging cradle
- Suggestion: Retail, hospitality industry, logistics, warehouse, etc.
- Size: 162.0(L) × 68.0(W) × 17.0(H)mm, weight: 250g



## MT90



- Build on Octa-core, 4GB RAM + 64GB ROM
- Multi-point touch screen
- Replaceable battery 4500mAh/6500mAh (optional)
- Optional accessories: rubber boot, hand strap, wrist lanyard, pistol grip, single charging cradle, 3-slot charging cradle, 4-slot spare battery charging cradle, UHF reader, long range barcode reader
- Suggestion: logistics, field mobility, healthcare, etc.
- Size: 155.0(L) × 78.0(W) × 20.0(H)mm, weight: 265g





**MT90PRO**

- Build on Octa-core, high-performance processor  
4GB RAM + 64GB ROM
- Multi-point touch screen
- Replaceable battery 4500mAh/6500mAh(optional)
- Optional accessories: rubber boot, hand strap, wrist lanyard, pistol grip, single charging cradle, 3-slot charging cradle, 4-slot spare battery charging cradle, long range barcode reader, UHF reader
- Suggestion: logistics, field mobility, healthcare, etc.
- Size: 155.0(L) × 78.0(W) × 20.0(H)mm, weight: 265g
- Google Android Enterprise Recommended (AER) certified

**NFT10**

- Build on Octa-core, 4GB RAM + 64GB ROM
- 5.7" screen with multi-point touch
- Battery 4800mAh
- Optional accessories: wrist lanyard, single charging cradle, 4-slot charging cradle
- Healthcare dedicated model: CareLink-M10
- Suggestion: retail, logistics, hospitality industry, healthcare, etc.
- Size: 157.0(L) × 76.3(W) × 12.6(H)mm, weight: 231g
- Google Android Enterprise Recommended (AER) certified

**N7**

- Build on Octa-core, high-performance processor  
4GB RAM + 64GB ROM
- Battery 5100mAh
- Optional accessories: pistol grip, wrist lanyard, single charging cradle (assembled to up to 4 slots), 4-slot spare battery charging cradle
- Suggestion: warehouse management, inventory, etc.
- Size: 200.0(L) × 70.0(W) × 24.0(H)mm, weight: 360g
- Google Android Enterprise Recommended (AER) certified

**N7L**

- Build on Quad-core, 2GB RAM + 16GB ROM
- Battery 5100mAh
- Optional accessories: pistol grip, wrist lanyard, single charging cradle 4-slot spare battery charging cradle
- Suggestion: warehouse management, inventory, etc.
- Size: 187.1(L) × 65.8(W) × 24.5(H)mm, weight: 325g







NEW

**MT37**

- Build on Quad-core, 1GB RAM + 8GB ROM
- Battery 3300mAh
- Optional accessories: Protective sleeve, wrist lanyard
- Suggestion: retail chains, food traceability, healthcare, warehouse management, inventory, etc.
- Size: 158(W) × 59(D) × 18.3(H)mm, weight: 155g



# INTERACTIVE KIOSK

NEW

**NQUIRE351**

- Build on Octa-core, 2GB RAM + 8GB ROM
- Multi-point touch screen
- Megapixel scan engine
- NFC reader
- WiFi (2.4Ghz and 5Ghz), Bluetooth
- Ethernet, PoE, GPIO (2in-2out)
- Bracket with standard VESA 75 interface
- Size: 140(H) × 139.5(W) × 61(D)mm

**NQUIRE1000**

- Build on Octa-core, 2GB RAM + 8GB ROM
- Multi-point touch screen
- Megapixel scan engine
- WiFi (2.4Ghz and 5Ghz), Bluetooth
- Ethernet, PoE, Expansion ports
- Expansion ports accessories: MSR reader, RFID reader, LTE module etc.
- Bracket with standard VESA 75 interface
- Size: 252(H) × 184(W) × 33(D)mm





# SCAN ENGINE



NEW



N1

- Support 1D and 2D barcodes
- Depth of field: 60-350mm
- Operating temperature: -20°C to 55°C (-4°F to 131°F)
- Smallest scan engine with decoder in the world
- Size: 21.5(L) x 9.0(W) x 7.0(H)mm



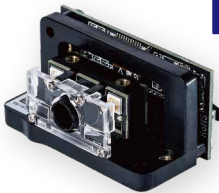
EM1300



- Support 1D barcodes
- Depth of field: 40-430mm
- Up to 300 scans per second
- Operating temperature: -20°C to 60°C (-4°F to 140°F)
- Size: 28.2(L) x 23.4(W) x 11.2(H)mm



EM2037



- Support 1D / 2D barcodes & Postal codes
- Operating temperature: -20° to 60°C (-4°F to 140°F)
- Size: 39.5(L) x 25.4(W) x 20.0(H)mm
- Optional SR and HD version



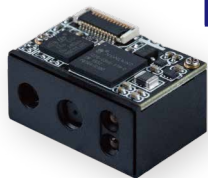
EM3096



- Support 1D and 2D barcodes
- Depth of field: 60-290mm
- Operating temperature: -20°C to 60°C (-4°F to 140°F)
- Size: 21.8(L) x 15.3(W) x 11.8(H)mm





**EM3296**

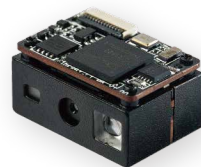
- Support 1D and 2D barcodes
- Depth of field: 50-365mm
- Operating temperature: -20°C to 60°C (-4°F to 140°F)
- Size: 21.8(L) x 15.3(W) x 11.8(H)mm

**EM3396**

- Support 1D and 2D barcodes
- Depth of field: 60-290mm
- Operating temperature: -20°C to 55°C (-4°F to 131°F)
- Size: 21.5(L) x 15.3(W) x 11.8(H)mm



NEW

**EM50S-10**

- Support 1D, 2D and OCR codes
- White eye friendly illumination
- Smallest 2D all-in-one megapixel hardware decoding engine
- Acuscan: accurate "point-to-read" feature
- Size: 21.7(L) x 14.7(W) x 11.9(H)mm



NEW

**EM50S-20**

- Support 1D, 2D and OCR codes
- White eye-friendly illumination
- Smallest 2D split megapixel hardware decoding engine
- Acuscan: accurate "point-to-read" feature
- Size: 21.5(L) x 10.2(W) x 8.6(H)mm



**EM20-80**

- Support 1D and 2D barcodes
- Depth of field: 25-110mm
- Optimized to read on-screen barcodes
- Operating temperature: -40°C to 65°C (-40°F to 149°F)
- Size: 61.5(L) x 65.5(W) x 31.9(H)mm



NEW

**EM20-85**

- Support 1D and 2D barcodes
- Depth of field: 25-85mm
- Operating temperature: -20°C to 60°C (-4°F to 140°F)
- Optional for NFC version
- Size: 61.5(W) x 65.5(D) x 18.3(H)mm



## FIXED MOUNT SCANNER >

**FM100**

- Support 1D barcodes
- Depth of field: 40-430mm
- Ideal for integration into self-service kiosk
- Size: 37.0(L) x 49.0(W) x 26.0(H)mm



NEW

**FM3080**

- Support 1D and 2D barcodes
- Scan window: 50 x 50 mm
- Optimized to read on-screen barcodes
- Flush mount: integrates easily into kiosks or counter
- Illumination color can be changed to suit a variety of purposes
- Size: 78.7(L) x 67.7(W) x 47.5(H)mm



**FM3051**

- Support 1D and 2D barcodes
- Scan window: 38.3 x 60.4 mm
- Optimized to read on-screen barcodes
- Recessed mount: minimize bump and abrasion
- Size: 78.7(L) x 67.7(W) x 62.5(H)mm

**FM3056**

- Support 1D and 2D barcodes
- Scan window: 31.5 x 46.5 mm
- Optimized to read on-screen barcodes
- Flush mount: integrate easily into kiosks or counters
- Size: 78.7(L) x 67.7(W) x 53(H)mm

**FM430**

- Support 1D and 2D barcodes
- Depth of field: 55-360mm
- Improved sensitivity with the combination of IR and light sensors
- White illumination with laser diode or green LED aimer
- Acuscan: accurate "point-to-read" feature
- Optimized to read on-screen barcodes
- Size: 41.5(L) x 49.5(W) x 24.3(H)mm



NEW

**FM60**

- Megapixel Imager, support 1D and 2D barcodes
- Depth of field: 0-150mm
- Fast motion tolerance 2m/s
- Middle-sized scanning window (96mm\*76mm)
- Ideal for integration into self-service kiosk
- Size: 114(W) x 46(H) x 94(D)mm



NEW

**FM80**

- Megapixel Imager, support 1D and 2D barcodes
- Depth of field: 0-140mm
- Ultra-fast motion tolerance 3.5m/s
- Large-sized scanning window (118mm\*97mm)
- Ideal for integration into self-service kiosk
- Size: 149(L) x 78.5(W) x 166.5(H)mm





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**Newland AIDC**  
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