



Newland AIDC
Scanning Made Simple

EMBEDDED SCANNING SOLUTION FOR IVD & LABORATORY

Making everyday tasks easier, faster and more intuitive.

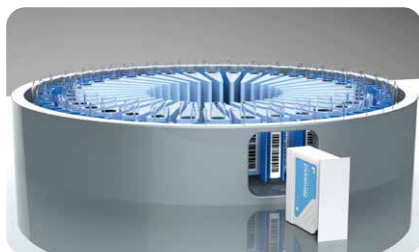


With the continuous innovation of auto-identification, the life sciences see an upsurge in the integration of cutting-edge technology into key laboratory applications.

As IVD and biotech companies mature and grow, their demand for professional scanning to facilitate more efficient product development also increases. Today, our barcode scanning technology is widely adopted in:

- Diagnostic device automation
- Tracking and tracing of reagents and specimens
- Identification and validation of vials and caps

Industry Challenges

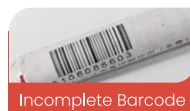
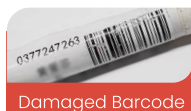


• High-Throughput and High-Speed Scanning Requirements

The embedded barcode scanner supports reading barcodes in fast-moving IVD samples at varying distances. Newland AIDC scanner is capable of scanning simultaneously at a considerable DOF (depth of field) and is extremely compact so that it can be installed in even the smallest spaces within a device.

• Demand for Reliable and Accurate Barcode Reading

Powerful barcode reading is a necessity – especially for challenging barcodes with low-contrast or visible damage. Plus, all real-time data can be seamlessly transmitted to analysis equipment for full transparency.



Scanning Made Simple

Newland AIDC offers reliable barcode scanners and OEM scan engines that can be effortlessly adopted and embedded into your IVD device or biotech system.

Thanks to our premium sensor's ultrawide scanning field and superior DOF, Newland AIDC scan engines are perfectly suited for reading barcodes inside analyzers.

Newland AIDC is already cooperating with leading IVD and biotech companies globally and can share the applications of our OEM scan engine for immunoassay analyzers, microbiological counters, laboratory analysis devices, fluorescent immunoassay analysis systems, and more.

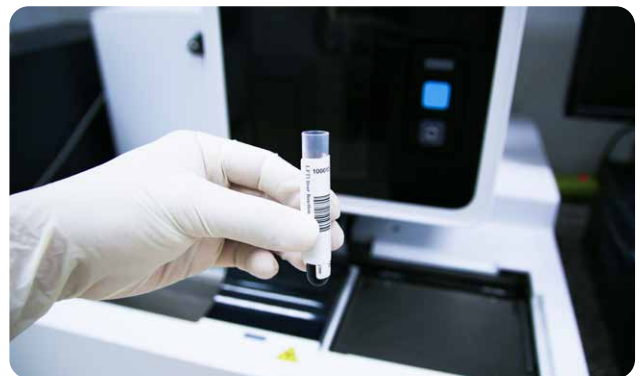
Our scanning solutions are reliable, easy to integrate and maintain, require only basic infrastructure, and enable diagnostic laboratories to:

- Automate key processes
- Reduce human errors
- Improve quality, efficiency, and accuracy
- Increase throughput
- Compliance with global and local regulations



Product Highlights

- High-speed Scanning
- Rugged IP Rating
- Superior Accuracy
- Small Scanning Blind Area
- Seamless Product Integration



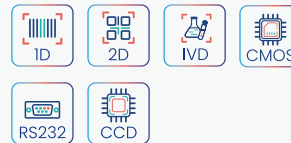
Embedded Barcode Solutions

New

FM416



- Support 1D & 2D barcodes
- UIMG technology
- Mini & vertical design for IVD
- Automatic Exposure Control (AEC)
- Single line laser aimer & ROI scanning
- Operating temperature: 0°C to 50°C (32°F to 122°F)
- Size: 19.4(L) x 21.5(W) x 40.5(H)mm



FM431



- Support 1D and 2D barcodes
- Depth of field: 55-450mm
- Improved sensitivity with high motion tolerance for rolling or moving barcodes
- Compatible with command sets of all major IVD barcode scanners
- Region-of-Interest reading for multi-barcodes at one frame
- Size: 41.5(L) x 49.5(W) x 24.5(H)mm



Targeted Application:

Fast and reliable reading of planar 2D printed barcodes at mid-distance and low-speed moving reagent bottles.

- Single-/double-circle biochemical testing instruments
- Mini chemiluminescence immunoassay analyzer (CLIA)

FM510



- Support 1D barcodes
- Ultra-High Scan Speed and Motion Tolerance:
780 scans per second
- Depth of field:
FM510-V: 15-95mm; FM510-H: 25-105mm
- Operating temperature: 0°C to 50°C (32°F to 122°F)
- Size: FM510-V: 62.5(W)×57(D)×21.5(H)mm;
FM510-H: 62.5(W)×50.5(D)×21.5(H)mm; 120g



Targeted Application:

Fast and reliable reading of 1D printed barcodes at short-distance and high-speed moving test tubes or reagent bottles.

- Single-circle biochemical testing instruments
- Specific protein analyzer
- Urinalysis system
- Mini chemiluminescence immunoassay analyzer (CLIA)

FM515

FM515-V



FM515-H



- Support 1D barcodes
- Ultra-High Scan Speed and Motion Tolerance:
780 scans per second
- Depth of field:
FM515-V: 25-180mm; FM515-H: 25-190mm
- Operating temperature: 0°C to 50°C (32°F to 122°F)
- Size: FM515-V: 62.5(W)×57(D)×21.5(H)mm;
FM515-H: 62.5(W)×50.5(D)×21.5(H)mm; 166g



Targeted Application:

Fast and reliable reading of 1D printed barcodes at long-distance and high-speed moving test tubes or reagent bottles.

- Double circle detection instrument
- Multi-row detection instrument
- Medium and large blood cell, biochemical, luminescent, or molecular detection analysis system

New

FM530



- Support 1D barcodes
- Ultra-high scan speed and motion tolerance,
780 scans per second
- long-distance scanning up to 10 to 15 rows
- Ultra-compact design
- Laser positioning
- Wide voltage input
- Operating temperature: 0° to 50°C (32°F to 122°F)
- Size: 110(L) x 90(W) x 29(H)mm



New

FM550



- Support 1D / 2D barcodes
- Depth of view: Horizontal 52°, Vertical 76.5°
- Dual laser aiming
- Ultra-Compact Design
- Able to transmit images in the specific area in different formats
- Operating temperature: 0° to 50°C (32°F to 122°F)
- Size: 54(L) x 27.5(W) x 25.5(H)mm



New

FM600



- Support 1D & 2D barcodes
- Powerful Deep Learning Function
- Integrated Algorithm Solution
- Modular Design
- Adjustable Focus
- RS-232, Ethernet and USB interfaces
- Operating temperature: 0° to 50°C (32°F to 122°F)
- Size: 55.5(L) x 37(W) x 42.5(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



N1



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



EM3080-W



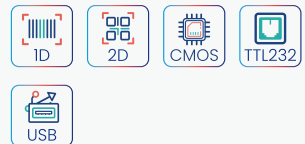
- Support 1D / 2D barcodes
- Depth of field: 40mm-110mm
- Operating temperature: -20°C to 50°C (-4°F to 122°F)
- Wide field of view: Horizontal 69.5°, Vertical 54.8°
- Size: 15.5(L)×13.9(W)×9.7(H)mm



EM3088-W



- Support 1D / 2D barcodes
- Depth of field: 30mm-85mm
- Operating temperature: -20°C to 60°C (-4°F to 158°F)
- Wide field of view: Horizontal 99°, Vertical 72.4°
- Size: 21.7(L)×14.5(W)×12(H)mm



EM2037



- Support 1D / 2D barcodes & Postal codes
- Depth of field: 70mm-180mm
- 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 Standard Range and High Density version



Also Available

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



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



Handheld Barcode Scanner



HR20

- Support 1D and 2D barcodes
- Depth of field: 50-260 mm
- Optional accessories: foldable smart stand, gooseneck stand
- Healthcare version available





HR32

- Support 1D and 2D barcodes
- Depth of field: 45-510 mm
- Optional accessories: foldable smart stand, gooseneck stand
- Healthcare version available



Mobile Terminal – Purpose Built for Healthcare



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
- Size: 155.0(L) × 78.0(W) × 20.0(H)mm, weight: 265g
- Disinfectant ready housing



Carelink M10

- 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
- Size: 157.0(L) × 76.3(W) × 12.6(H)mm, weight: 231g
- Google Android Enterprise Recommended (AER) certified
- Disinfectant ready housing





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✉ info@newlandaids.com

🌐 www.newlandaids.com



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