



Newland AIDC
Scanning Made Simple

OEM Product Portfolio

Making everyday tasks easier, faster and more intuitive.

ABOUT US

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.

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.



Data Capture



Traceability



Mobile Payment



Cloud & Big Data



Transportation & Logistics



O2O



IOT



Intelligence



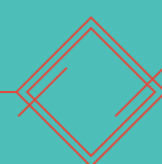
Digitalization



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.

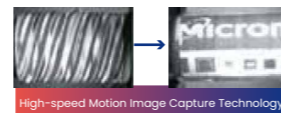
Newland AIDC owns the laboratory approved by CNAS specified in barcode testing, where the generated reports are acknowledged by CNAS mutual recognition organizations amount 80 economy entities worldwide.



Sub-pixel Image Processing Technology



Anti-contamination Processing Technology



High-speed Motion Image Capture Technology



Robot Arm



Barcode DOF Testing System



Anechoic Chamber



Barcode Engine Assembling Line



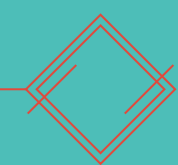
Automatic Lens Adjustment



Surface Mounting Line

EXCELLENT SUPPLY CHAIN MANAGEMENT

- ISO20000, ISO9001 and ISO14000 certified
- Stabilized multi-channels for key components supply
- Owns 2000 m² modernized factory, including dust-free workshop and engine assembling line. Additional outsourcing factories covering over 10000 m²



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.

OEM SCAN ENGINE



FIXED MOUNT SCANNER >



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

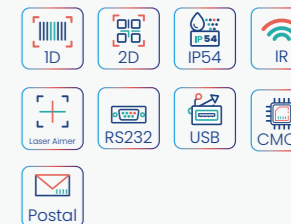


New



FM431

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



New



FM600

- 2.3 Mega-Pixel CMOS sensor resolution
- Depth of field: 30-520mm
- Powerful AI processor with dual-core parallel processing for efficient multi-codes decoding
- OCR Capability
- Ultra-compact and durable Design
- Adjustable focus enables flexible depth-of-field settings
- Replaceable lens cover: high transmission cover & polarizer cover
- Clearly Status Indicator
- Size: 37(W)×55.5(D)×42.5(H)mm



New

FM3270



- Support 1D and 2D barcodes
- VGA resolution
- Improved sensitivity with the combination of IR and light sensors
- Depth of field: 0-170mm
- Optimized to read printed & on-screen barcodes
- Size: 78.7(L)×47.7(W)×67.7(H)mm



New

FM3280



- Support 1D and 2D barcodes
- Improved sensitivity with the combination of IR and light sensors
- Multiple interface: USB/RS232/RS485/Wiegand
- Depth of field: 0-290mm
- 5-24VDC wide voltage input
- Excellent decoding ability of special and low-quality barcodes
- NFC version available
- Optimized to read printed & on-screen barcodes
- Size: 78.7(L)×47.7(W)×67.7(H)mm



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) × 46(H) × 94(D)mm



FM80



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



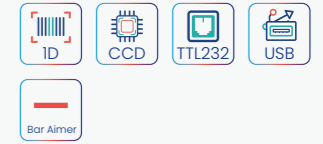
SCAN ENGINE - ALL IN ONE >

New

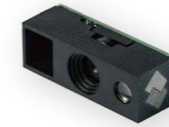
EM1365-EX



- Support 1D barcodes
- Depth of field: 60-600mm
- Operating temperature: -20°C to 55°C (-4°F to 131°F)
- Size: 28.2(L) x 21.6(W) x 8.6(H)mm



N1



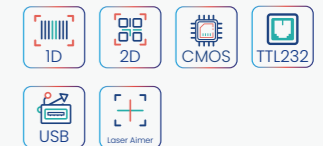
- Support 1D and 2D barcodes
- Depth of field: 60-350mm
- Operating temperature: -20°C to 60°C (-4°F to 140°F)
- Ultra-small scan engine with decoder
- Size: 21.5(L) x 9.0(W) x 7.0(H)mm



N1-ER



- Support 1D and 2D barcodes
- Depth of field: 105-680mm
- Operating temperature: -20°C to 55°C (-4°F to 131°F)
- Size: 23.8(L) x 10.5(W) x 7.0(H)mm





N1-W

- Support 1D and 2D barcodes
- Depth of field: 25-45mm
- 68° ultra-wide FOV & close-range DOF
- Operating temperature: -20°C to 55°C (-4°F to 131°F)
- Size: 23.8(L) x 7.5(W) x 7.0(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
- Depth of field (HD) : 60-420mm
- Optional SR and HD version



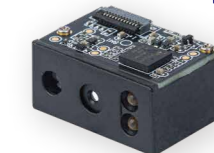
EM3080-W

- Support 1D / 2D barcodes
- Depth of field: 40mm-110mm
- Ultra Wide Field of View: Horizontal 69.5°, Vertical 54.8°, Diagonal 82.2°
- Operating temperature: -20°C to 50°C (-4°F to 122°F)
- Size: 15.5(L)×13.9(W)×9.7(H)mm



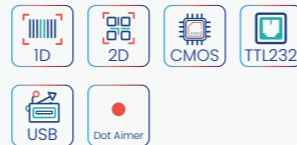
EM50S-10

- Support 1D, 2D and OCR codes
- White eye friendly illumination
- 2D all-in-one megapixel hardware decoding engine
- Depth of field: 70-500mm
- Acuscan: accurate "point-to-read" feature
- Accept NRE on decoding algorithm
- Size: 21.7(L) x 14.7(W) x 11.9(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



EM3088-W

- Support 1D / 2D barcodes
- Depth of field: 30mm-85mm
- Ultra Wide Field of View: Horizontal 99°, Vertical 72.4°, Diagonal 109°
- Operating temperature: -20°C to 60°C (-4°F to 140°F)
- Size: 21.7(L)×14.5(W)×12(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

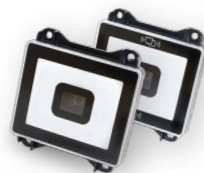


SCAN ENGINE - SPECIAL DESIGN >



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



EM20-85

- Support 1D and 2D barcodes
- Depth of field: 25-85mm
- Operating temperature: -20°C to 60°C (-4°F to 140°F)
- Ultra-compact Size (less than 2.0mm)
- Excellent & snappy on-screen and printed barcode capture
- Optional for NFC version
- Size: 61.5(W) x 65.5(D) x 18.3(H)mm



SCAN ENGINE - SPLIT >



EM50S-20

- Support 1D, 2D and OCR codes
- White eye-friendly illumination
- 2D split megapixel hardware decoding engine
- Acuscan: accurate "point-to-read" feature
- Depth of field: 70-500mm
- Accept NRE on decoding algorithm
- Size: 21.5(L) x 10.2(W) x 8.6(H)mm



SCAN ENGINE-SOFTWARE DECODING >



CM30

- Support 1D and 2D barcodes
- 640*480 Resolution
- Depth of field: 60-330mm
- User-friendly red dot LED focusing
- Comprehensive fast reading capability
- Ultra-compact with strong compatibility, easy maintenance
- Low power consumption
- Size: 21.5(W)x8.8(D)x7.0(H)mm (max)



CM60E

- Support 1D & 2D barcodes
- 1280*800 Resolution
- Depth of field: 70-600mm
- Clear laser aimer for Acuscan
- Improved mobility and adaptability
- Competent in complex and difficult barcode
- Configurable with multiple decoding functions
- Low power consumption
- Passport OCR Capability
- Size: 23.2(W)x10.1(D)x7.0(H)mm (max)




CM60

- Support 1D & 2D barcodes
- 1280*800 Resolution
- Depth of field: 70-600mm
- Ultra-thin form factor
- Clear laser aimer for Acuscan
- Smart in complex and difficult barcode reading
- Configurable with multiple decoding functions
- High motion tolerance version optional
- Passport OCR Capability
- Size: 23.8(W)x16.7(D)x7.0(H)mm (max)



SCAN ENGINE - IVD >


NEW




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

** For IVD only




NEW




FM515

- 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

** For IVD only




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



ODM & JDM >

By leveraging extensive experiences on development of scanning and enterprise mobility, and capacity of manufacturing for supply chain, Newland AIDC ready to provide professional contract manufacturing and product support services to our customers.



PRIVATE LABEL >







By private labeling Newland AIDC's solutions and technologies, customer gets to shorten the cycle of product development, maximize the ROI.



RECOMMENDED FOR YOU INNOVATION



Self Service & Vending Machine & Kiosk

| Model No. | Image | Decode Capability | Depth of Field | Window Size | Interface | Illumination | Dimension (mm) |
|-----------|---|-------------------|----------------|-------------|------------------------------------|--------------|-------------------------------|
| EM20-80 |  | 1D&2D | 25-110mm | 50×61mm | RS-232 USB TTL-232 | White LED | 61.5(L) 65.5(W) 31.9(H) |
| EM20-85 |  | 1D&2D | 30-85mm | / | TTL-232 RS-232 USB | White LED | 61.5(L) 65.5(W) 18.3(H) |
| FM3280 |  | 1D&2D NFC | 0-290mm | 45×45mm | RS-232 USB RS-485 Wiegand | White LED | 47.7(L) 78.7(W) 67.7(H) |
| FM430 |  | 1D&2D | 55-360mm | / | RS-232 USB | White LED | 41.5(L) 49.5(W) 24.3(H) |
| FM60 |  | 1D&2D | 0-140mm | 50×61mm | RS-232 USB | White LED | 114(L) 46(W) 94(H) |
| FM80 |  | 1D&2D | 0-140mm | 75.5×95.5mm | RS-232 USB | Red LED | 149(L) 78.5(W) 166.5(H) |



Ticket Validation & Access Control



EFT POS & Mobile Computer

| Model No. | Image | Decode Capability | Depth of Field | Fov | Interface | Illumination | Dimension (mm) |
|-----------|-------|-------------------|----------------|---------------------|------------------------------------|--------------|-------------------------------|
| EM20-80 | | ID&2D | 25-110mm | H68°/ V51°/ D 84.8° | RS-232 USB TTL-232 | White LED | 61.5(L) 65.5(W) 31.9(H) |
| EM20-85 | | ID&2D | 30-85mm | H 68°/ V 51° | RS-232 USB TTL-232 | White LED | 61.5(L) 65.5(W) 18.3(H) |
| FM431 | | ID&2D | 55-360mm | H 51°/ V 32° | RS232 USB | White LED | 49.5(L) 41.5(W) 24.7(H) |
| FM3280 | | ID&2D NFC | 0-290mm | H 58.2°/ V 66° | RS-232 USB RS-485 Wiegand | White LED | 47.7(L) 78.7(W) 67.7(H) |
| FM430 | | ID&2D | 55-360mm | H 51°/ V 32° | RS-232 USB | White LED | 41.5(L) 49.5(W) 24.3(H) |

| Model No. | Image | Decode Capability | Depth of Field | Fov | Interface | Illumination | Dimension (mm) |
|-----------|-------|----------------------|----------------|----------------|-------------------------|--------------|---|
| NI | | ID&2D | 60-350mm | H 42°/ V 31.5° | USB TTL-232 | White LED | 21.5(L) 9.0(W) 7.0(H) |
| EM50S-10 | | ID&2D Postal, OCR | 70-500mm | H 42°/ V 28° | USB TTL-232 | White LED | 21.7(L) 14.7(W) 11.9(H) |
| EM50S-20 | | ID&2D Postal, OCR | 70-500mm | H 42°/ V 28° | RS232 USB TTL-232 | White LED | Imager: 21.5×10.2×8.6 Decoder board: 21.5×21.5×4.2 |
| CM30 | | ID&2D | 60-330mm | H 42°/ V 31° | IIC MIPI | Red LED | 8.8(L) 21.5(W) 7.0(H) |
| CM60E | | ID&2D Postal, OCR | 70-600mm | H 42°/ V 28° | IIC MIPI | White LED | 10.1(L) 23.2(W) 7.0(H) |
| CM60 | | ID&2D Postal, OCR | 70-600mm | H 42°/ V 28° | IIC MIPI | White LED | 16.7(L) 23.8(W) 7.0(H) |

In Vitro Diagnostics



| Model No. | Image | Decode Capability | Depth of Field | Scan Speed | Interface | Illumination | Dimension (mm) |
|--------------|---|-------------------|--|---------------|--------------------------|--------------|-----------------------|
| FM510 Series |  | 1D | FM510-V: 15-95mm FM510-H: 25-105mm | 780 scans/sec | USB TTL-232 | Red LED | 57(L)×62.5(W)×21.5(H) |
| FM515 Series |  | 1D | FM515-V: 25-180mm FM515-H: 25-190mm | 780 scans/sec | USB TTL-232 | Red LED | 57(L)×62.5(W)×21.5(H) |
| FM550 |  | 1D & 2D | 45-150mm | 60 scans/sec | RS232 USB | White LED | 25.5(L)×27.5(W)×54(H) |
| FM600 |  | 1D & 2D | Adjustable Focal Length | 60 scans/sec | Ethernet RS232 USB | White LED | 37(L)×37(W)×42.5(H) |

| Model No. | Image | Decode Capability | Depth of Field | Fov | Interface | Illumination | Dimension (mm) |
|-----------|---|----------------------|----------------|-------------------------------|----------------|--------------|-------------------------------|
| NI |  | 1D&2D | 60-350mm | H 42° V 31.5° | USB TTL-232 | White LED | 21.5(L) 9.0(W) 7.0(H) |
| EM2037 |  | 1D&2D | 60-240mm | H 39° V 24° | USB TTL-232 | Red LED | 39.5(L) 25.4(W) 20.0(H) |
| EM3080-W |  | 1D&2D | 40-110mm | H 69.5° V 54.8° D 82.2° | USB TTL-232 | White LED | 15.5(L) 13.9(W) 9.7(H) |
| EM3088-W |  | 1D&2D OCR | 30-85mm | H 99° V 72.4° D 109° | USB TTL-232 | White LED | 21.7(L) 14.5(W) 12(H) |
| EM50S-10 |  | 1D&2D Postal, OCR | 70-500mm | H 42° V 28° | USB TTL-232 | White LED | 21.7(L) 14.7(W) 11.9(H) |


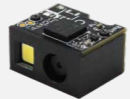








Voting Machine & Gaming















| Model No. | Image | Decode Capability | Depth of Field | Fov | Interface | Illumination | Dimension (mm) |
|-----------|---|-------------------|----------------|-----------------------|--------------------------|--------------|-------------------------------|
| NI |  | 1D&2D | 60-350mm | H42° / V31.5° | USB TTL-232 | White LED | 21.5(L) 9.0(W) 7.0(H) |
| EM2037 |  | 1D&2D | 60-240mm | H39° / V24° | USB TTL-232 | Red LED | 39.5(L) 25.4(W) 20.0(H) |
| EM3296 |  | 1D&2D | 50-365mm | H44° / V33.2° | USB TTL-232 | Red LED | 78.7(L) 67.7(W) 53(H) |
| EM20-80 |  | 1D&2D | 25-110mm | H68° / V51° / D 84.8° | RS-232 USB TTL-232 | White LED | 61.5(L) 65.5(W) 31.9(H) |
| EM20-85 |  | 1D&2D | 30-85mm | H 68° / V 51° | RS-232 USB TTL-232 | White LED | 61.5(L) 65.5(W) 18.3(H) |

| Model No. | Image | Decode Capability | Depth of Field | Fov | Interface | Illumination | Dimension (mm) |
|-----------|---|-------------------|----------------|---------------|------------------------------------|--------------|-------------------------------|
| FM430 |  | 1D&2D | 55-360mm | H51° / V32° | RS-232 USB | White LED | 41.5(L) 49.5(W) 24.3(H) |
| FM3280 |  | 1D&2D NFC | 0-290mm | V66° / H58.2° | RS-232 USB RS-485 Wiegand | White LED | 47.7(L) 78.7(W) 67.7(H) |









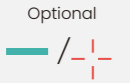
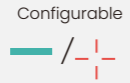




OEM PRODUCT AT-A-GLANCE (SCAN ENGINE)

| | | | | | | |
|-------------------------------------|---|---|---|---|---|---|
| Image |  |  |  |  |  |  |
| Model No. | NI | EM3080-W | EM3296 | EM3396 | EM2037 | EM3088-W |
| Scanning Capabilities | 1D 2D | 1D 2D | 1D 2D | 1D 2D | 1D 2D Postal OCR | 1D 2D OCR |
| Illumination | White | White | Red | Red | Red | White |
| Aiming Pattern |  | / |  |  |  | / |
| Used For | Fixed/Mobile Device | Fixed/Mobile Device | Fixed/Mobile Device | Fixed/Mobile Device | Fixed/Mobile Device | Fixed/Mobile Device |
| Image sensor | 640 × 480 CMOS | 640 × 480 CMOS | 640 × 480 CMOS | 752 × 480 CMOS | 1280 × 800 CMOS | 1280 × 800 CMOS |
| Interface | Serial & USB | Serial & USB | Serial & USB | Serial & USB | Serial & USB | Serial & USB |
| Scanning Range | Standard Range | Near Field | Standard Range | Standard Range | SR: Standard Range HD: Near Field | Near Field |
| Field of View | Horizontal 42° Vertical 31.5° | Horizontal 69.5° Vertical 54.8° Diagonal 82.2° | Horizontal 44° Vertical 33.2° | Horizontal 36° Vertical 23° | SR: Horizontal 39°, Vertical 24° HD: Horizontal 48.5°, Vertical 30.7° | Horizontal 99° Vertical 72.4° Diagonal 109° |
| Dimension L × W × H mm | 21.5 × 9.0 × 7.0 | 15.5 × 13.9 × 9.7 | 21.8 × 15.3 × 11.8 | 21.5 × 15.3 × 11.8 | 39.5 × 25.4 × 20.0 | 21.7 × 14.5 × 12 |

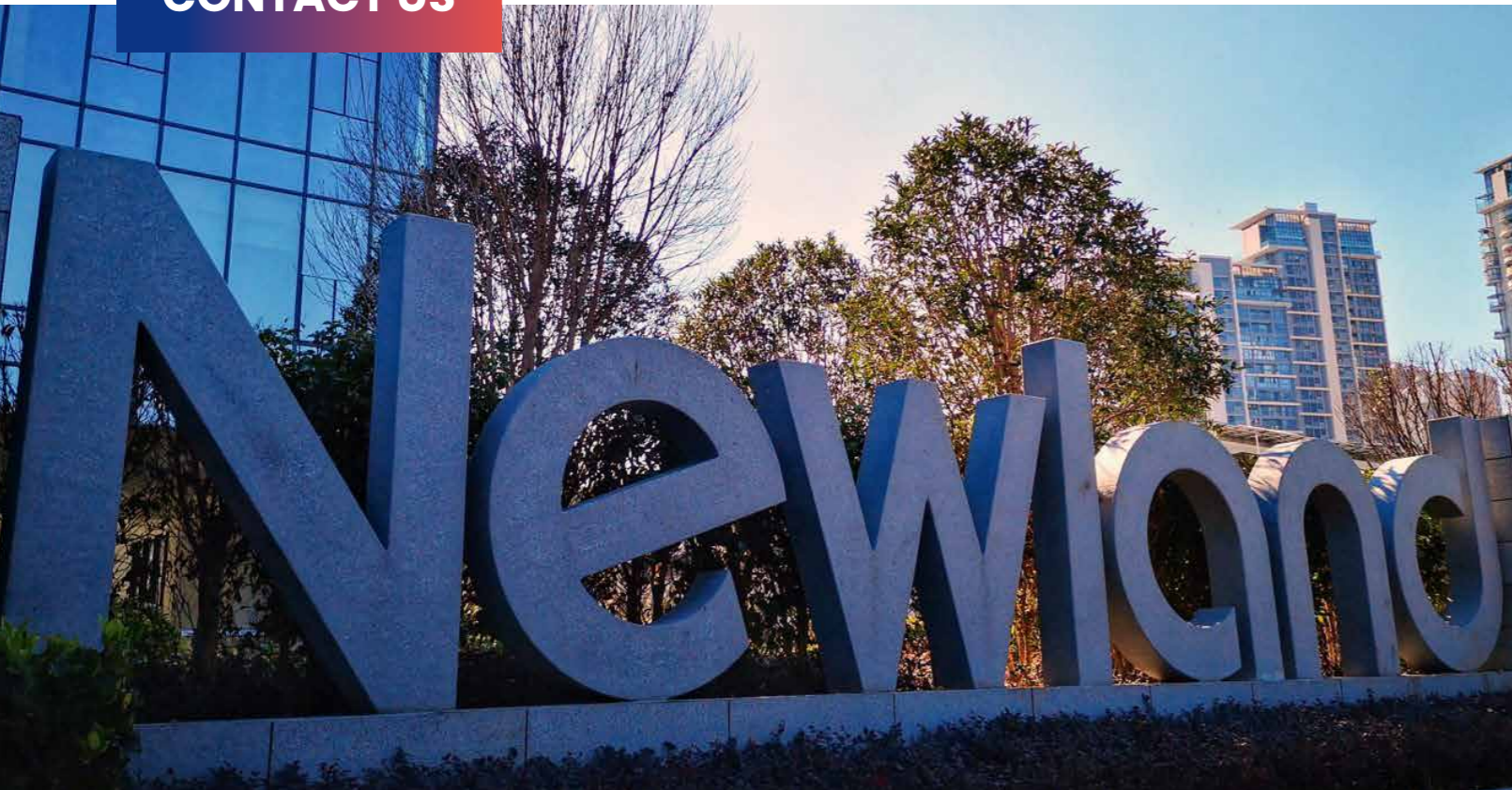
OEM PRODUCT AT-A-GLANCE (SCAN ENGINE)

| | | | | | | | |
|-------------------------------------|---|---|---|---|---|---|---|
| Image |  |  |  |  |  |  |  |
| Model No. | EM50S-10 | EM50S-20 | EM20-80 | EM20-85 | CM30 | CM60 | CM60E |
| Scanning Capabilities | 1D 2D Postal OCR | 1D 2D Postal OCR | 1D 2D | 1D 2D | 1D&2D | 1D&2D Postal, OCR | 1D&2D Postal, OCR |
| Illumination | White | White | White | White | White | White | White |
| Aiming Pattern |  |  | / | / |  |  |  |
| Used For | Fixed/Mobile Device | Fixed/Mobile Device | Fixed Device | Fixed Device | Mobile Device | Mobile Device | Mobile Device |
| Image sensor | 1280 × 800 CMOS | 1280 × 800 CMOS | 640 × 480 CMOS | 640 × 480 CMOS | 640 × 480 CMOS | 1280 × 800 CMOS | 1280 × 800 CMOS |
| Interface | Serial & USB | Serial & USB | Serial & USB | Serial & USB | IIC MIPI | IIC MIPI | IIC MIPI |
| Scanning Range | Standard Range | Standard Range | Near Field | Near Field | Standard Range | Standard Range | Standard Range |
| Field of View | Horizontal 42° Vertical 28° | Horizontal 42° Vertical 28° | Horizontal 68° Vertical 51° Diagonal 84.8° | Horizontal 68° Vertical 51° | Horizontal 42° Vertical 31° | Horizontal 42° Vertical 28° | Horizontal 42° Vertical 28° |
| Dimension L × W × H mm | 21.7 × 14.7 × 11.9 | 21.5 × 10.2 × 8.6 | 61.5 × 65.5 × 31.9 | 61.5 × 65.5 × 18.3 | 8.8 × 21.5 × 7.0 | 16.7 × 23.8 × 7.0 | 10.1 × 23.2 × 7.0 |

OEM PRODUCT AT-A-GLANCE (FIXED MOUNT SCANNER)

| Image |  |  |  |  |  |  |  |  | | |
|------------------------------|---|---|--|---|---|---|---|---|---|---|
| Model No. | FM430 | FM431 | FM600 | FM3270 | FM3280 | FM60 | FM80 | FM510 | FM515 | FM550 |
| Scanning Capabilities | 1D 2D Postal OCR | 1D 2D Postal OCR | 1D & 2D OCR | 1D 2D | 1D 2D NFC | 1D 2D Postal OCR | 1D 2D Postal OCR | 1D | 1D | 1D & 2D |
| Illumination | White | White | White | White | White | White | Red | Red | Red | White |
| Aiming Pattern | Optional  | Configurable  |  | / | / | / | / |  |  |  |
| Used For | Fixed Device | Fixed Device | Fixed Device | Fixed Device | Fixed Device | Fixed Device | Fixed Device | Fixed Device | Fixed Device | Fixed Device |
| Image sensor | 1280 × 800 CMOS | 1280 × 800 CMOS | 1920 × 1200 CMOS | 640 × 480 CMOS | 1280 × 1088 CMOS | 1280 × 800 CMOS | 1280 × 1088 CMOS | 2500 CCD | 2500 CCD | 800 × 1280 CMOS |
| Interface | Serial & USB | Serial & USB | Serial & USB & Ethernet | Serial & USB | Serial & USB & RS485 & Wiegand | Serial & USB | Serial & USB | Serial | Serial | Serial & USB |
| Scanning Range | Standard Range | Near Filled Standard Range Optional | Near / Middle / Far Field | Near Field | Standard Field | Standard Range | Standard Range | Near Field | Near & Middle Field | Near & Middle Field |
| Field of View | Horizontal 51° Vertical 32° | Horizontal 51° Vertical 32° | Horizontal 60° Vertical 40° | Vertical 70° Horizontal 55° | Vertical 66° Horizontal 58.2° | Horizontal 65.6° Vertical 44.6° | Horizontal 42.4° Vertical 36° | 68° | 68° | Horizontal 52° Vertical 76.5° |
| Dimension L × W × H mm | 41.5 × 49.5 × 24.3 | 41.5 × 49.5 × 24.5 | 37 × 55.5 × 42.5 | 78.7 × 47.7 × 67.7 | 78.7 × 47.7 × 67.7 | 114 × 46 × 94 | 149 × 78.5 × 166.5 | FM510-V: 62.5 × 57 × 21.5 FM510-H: 62.5 × 50.5 × 21.5 | FM515-V: 62.5 × 57 × 21.5 FM515-H: 62.5 × 50.5 × 21.5 | 54 × 27.5 × 25.5 |

CONTACT US



Newland AIDC

📍 No.1 Rujiang West Rd., Mawei, Fuzhou, Fujian 350015, China
☎ +86-591-83979500 ✉ info@newlandaidc.com

🌐 www.newlandaidc.com

Asia Pacific

Singapore:

Add: 6 Raffles Quay #14-06 Singapore 048580 Tel: +86 591 83979500 Email: info@newlandaidc.com

India:

Add: No. 309-311, 3rd Floor, Tower B, NOIDA ONE business park B 8, Block B, Industrial Area, Sector 62, Noida, Uttar Pradesh 201309
Tel: +91-120-3201449/50/51/52
Email: info@newlandaidc.com

Indonesia:

Add: Eightyeight@kasablanka Tower A 12th Floor Unit A&H, Jl. Casablanca Raya Kav. 88, Jakarta Selatan 12870
Tel: +62 21 3950 5400
Email: info@newlandaidc.com

Japan:

Add: Area Shinagawa Building 13th Floor, 9-36 Konan 1-chome, Minato-ku, Tokyo, Japan 108-0075
Tel: +81 03 4405 3222
Email: info@newlandaidc.com

Korea:

Add: Biz. Center Best-one, Jang-eun Medical Plaza 6F, Bojeong-dong 1261-4, Kihung-gu, Yongin-City, Kyunggi-do, South Korea
Tel: +82 10 8990 4838
Email: info@newlandaidc.com

Taiwan:

Add: 7F-6, No. 268, Liancheng Rd., Jhonghe Dist. 235, New Taipei City, Taiwan
Tel: +886 2 7731 5388
Email: info@newlandaidc.com

Vietnam:

Tel: +86 591 83979500
Email: info@newlandaidc.com

Europe & Middle East & Africa

Add: Rolweg 25, 4104 AV Culemborg, The Netherlands
Tel: +31 (0) 345 87 00 33 Email: sales@newland-id.com Tech Support: tech-support@newland-id.com Web: www.newland-id.com

North America

Add: 46559 Fremont Blvd., Fremont, CA 94538, USA Tel: +1 510 490 3888 Email: info@newlandaidc.com

Latin America

Tel: +1 239 598 0068
Email: info@newlandaidc.com

Chile:

Tel: +56 9 9337 3177

Brazil:

Tel: +55 35 9767 6078

Colombia:

Tel: +57 319 387 4484

Mexico, Central America & Caribbean:

Tel: +52 155 5432 9079



Newland AIDC

✉ info@newlandaidc.com

🌐 www.newlandaidc.com



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