Newland AIDC
SCANNING MADE SIMPLE

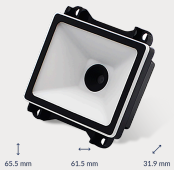


# EM20-80 V2

Scan Engines

1D & 2D | CMOS | CPU | Dual Interface | EasySet | Mobile Reading

Standard Level | Warranty 2 Years | White Illumination




## Features

**6th Generation UIMG Technology.**
The EM20-80 is armed with Newland's latest generation scanning technology. Sporting a new decoding algorithm on its CPU processor, the engine delivers excellence no matter what code it's facing. Additionally, it allows the firmware to be adapted to your specific environment and application.

**Optimized for On-Screen Codes.**
The EM20-80 is ready for any smartphone or tablet presented to it. The wide scan angle and optimization for near-distance scanning both match the intuitive way end-users present their device to a scanner. This keeps lines moving and operations running smoothly.

**Resistance to High Vibrations.**
The sturdy PCB construction and vibration-proof connectors make the EM20-80 highly resistant against vibrations. This feature has particularly proven its value for ticket validation in buses and trains.

**Direct Connection to PC.**
The EM20-80 is set up with an additional 4-pin connector on its decoder board. This way, you can directly connect the engine to your computer via a universal USB interface.

**EasySet Configuration.**
The EM20-80 is compatible with our master configuration software EasySet. Built for Windows OS, this software is a useful tool to integrators for building and testing configurations, cloning and deploying configurations, and updating scanner firmware.

2 Years Full Warranty

EasySet

TECHNICAL SPECIFICATIONS

# EM20-80 V2

## Data Capture

| | |
|---|---|
| 1D | All major 1D symbologies, including EAN-8, EAN-13, UPC-E, UPC-A, Code 128, UCC/EAN128, I2Of5, ITF-14, ITF-6, Matrix 25, CodaBar, Code 39, Code 93, ISSN, ISBN, Industrial 25, Standard 25, Plessey, Code11, MSI-Plessey, UCC/EAN Composite, GS1 Databar, Code 49, Code 16K. |
| 2D | All major 2D symbologies, including PDF 417, QR Code, Micro QR, Data Matrix, Aztec, Maxicode, Chinese Sensible Code, GM Code, Micro PDF417 Code, Code One. |
| Depth of Field DataMatrix (10mil) | 35 mm - 50 mm |
| Depth of Field EAN 13 (13mil) | 25 mm - 110 mm |
| Depth of Field PDF417 (6.67mil) | 35 mm - 45 mm |
| Depth of Field QR (15mil) | 0 mm - 90 mm |
| Field of View Horizontal | 68° |
| Field of View Vertical | 51° |
| Illumination | White LED |
| Image Sensor | 640 x 480 CMOS |
| Minimal Print Contrast | 30% |
| Scan Angle Pitch | ±40° |
| Scan Angle Roll | 360° |
| Scan Angle Skew | ±45° |

## Physical

| | |
|---|---|
| Current @ 3.3VDC Operating | 141 mA |
| Current @ 3.3VDC Standby | 93 mA |
| Current @ 5VDC Standby | 51 mA |
| Dimensions | 61.5(W) x 65.5(D) x 31.9(H) mm |
| Input Voltage | 12-pin FPC connector: 3.3-5 VDC ±5%, 4-pin box connector: 3.3-5 VDC ±5% |
| Interfaces | TTL-232, RS-232, USB |
| Notifications | Beep, Green LED |
| Power Consumption | 3.3 VDC: 466 mW, 5 VDC: 755 mW (typical) |
| Weight | 33 g |

## Environmental

| | |
|---|---|
| Ambient Light | 0 to 100,000 lux (natural light) |
| Humidity | 5% to 95% (non-condensing) |
| Operating Temperature | -40°C to 60°C (-40˚F to 140˚F) |
| Storage Temperature | -40°C to 75°C (-40°F to 167°F) |

## Software

| | |
|---|---|
| Configuration Tools | EasySet |

## Certifications

| | |
|---|---|
| Certifications Hardware | CE EMC Class B, FCC Part15 Class B |

## Warranty

| | |
|---|---|
| Warranty Standard | 2 Years |

| Accessories | |
|---|---|
| Accessories Optional | USB cable, RS-232 cable, Adapter |
| Accessories Standard | 180mm flexible flat cable (FFC), Software development board |

## Accessories

| | |
|---|---|
| Cables | CBL034U USB to Micro USB Cable for EM20 and MT90 (CBL034U)<br>CBL115U 4-PIN to USB Cable for EM20-80 (CBL115U)<br>CBL124R 4-PIN to USB/RS232 Cable for EM20-80 V2 (CBL124R) |
| Protection & Handling | EM20-TG Tempered Glass Window for EM20-80 (EM20-TG) |

Newland AIDC EMEA
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**Newland AIDC EMEA**
Feel free to contact us or a partner near you.
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Specifications are subject to change without notice
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