Newland AIDC
SCANNING MADE SIMPLE

FM100

Fixed-Mount Scanners

1D | CCD | Dual Interface | IP54 | Warranty 5 Years

Features

Ease of integration.
Compact and easy to integrate design. The small form factor enables easy integration into various solutions. This 1D fixed barcode scanner has an IP54 rating making it dust & water resistant.

Advance Technology.
Includes core-technology, which is independently designed and manufactured by Newland Auto-ID. Technology includes the optical, CMOS, digitizer, decoder, image processing & embedded systems. The scanner supports all global standard 1D barcode symbologies. Its reading performance reaches and exceeds global standards. By using the accessories provided, the user can easily set up the scanner to their customer's environment.

Application scenarios.
Designed for OEM applications, this high performance fixed CCD scan engine can easily be integrated into various solutions such as kiosks, ticketing machines, (Reverse) Vending Machines and many more.

5 Years Full Warranty

TECHNICAL SPECIFICATIONS

FM100

Data Capture

1D	All major 1D symbologies, including Code128, EAN-13, EAN-8, Code39, UPC-A, UPC-E,Codabar, Interleaved 2 of 5, ISBN/ISSN, Code 93,UCC/EAN-128, GS1Databar.
Field of View Horizontal	40°
Illumination	Red LED (622nm-628nm)
Image Sensor	2500 CCD
Minimal Print Contrast	30%
Resolution	≥5mil
Scan Angle Pitch	±65°
Scan Angle Roll	±30°
Scan Angle Skew	±60°

Scan Modes	Delayed Sense Mode, Continuous Mode, Interval Mode
Scan Rate	300 scans per second

Physical

Current @ 5VDC Operating	163 mA
Current @ 5VDC Standby	65 mA
Dimensions	49(W) x 37(D) x 26(H) mm
Housing	ABS
Input Voltage	5 VDC ±5%
Interfaces	USB, RS-232
Notifications	Beep, LED
Power Supply Input	5 VDC (1.5 A)
Power Supply Output	AC100 to 240 V (50 to 60 Hz)
Weight	70 g

Environmental

Ambient Light	0 to 100,000 lux
Humidity	5% to 95% (non-condensing)
IP Rating	IP54
Operating Temperature	-5°C to 45°C (23˚F to 113˚F)
Storage Temperature	-40°C to 60°C (-4˚F to 140˚F)

Certifications

Certifications Hardware	CE EMC Class B, FCC Part15 Class B, KC

Warranty

Warranty Standard	5 Years

Accessories

Accessories Optional	USB cable, USB-C cable, Multiplug adapter, RS-232 cable
Accessories Standard	USB cable

What's in the box?

NLS-FM100GD-RC	FM100, 2 meter RS-232 extension cable, Multiplug adapter
NLS-FM100GD-U	FM100, 2 meter USB extension cable
NLS-FM100GD-00	FM100, 50 cm direct USB cable
NLS-FM100GD-18	FM100, 1.80 meter direct USB cable

Accessories

Charging/Power	ADP100 Power Supply for HR, FR, and FM Series (ADP100)
Cables	CBL017U RJ to USB-C Cable for HR, FR and FM Series (CBL017U) CBL025R RS232 Cable for FR and FM Series (CBL025R) CBL026U USB Cable for FR and FM series (CBL026U)

	CBL030UA USB Cable for HR12, HR32 and HR52 Series (CBL030UA) CBL036UA USB Cable for HR, FM, and FR Series (CBL036UA) CBL037R RS232 Cable for HR, FR, and FM Series (CBL037R) CBL042UA USB Cable for HR, FM, and FR Series (CBL042UA) CBL042UA V5.0 USB Cable for FM, and FR Series (CBL042UA V5.0)
Peripherals	EX232 Remora (NLS-EX232-01)

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Feel free to contact us or a partner near you.
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