Newland AIDC
SCANNING MADE SIMPLE



FM80 Salmon

Fixed-Mount Scanners

1D & 2D | Advanced Scripting | Dual Interface | EasySet | Fast Motions | GS1 Ready

IP52 | Megapixel | Warranty 5 Years | Wide Scan Angle







Features

High Motion Tolerance.
The FM80 Salmon can capture EAN codes moving at 3.5 meters per second. This is especially significant for the experienced user at a static point of sale (POS), for quickly processing baskets of goods and reducing check-out queuing.

Large Scan Window.
Its large scan window and small depth-of-field helps capture barcodes even when the goods are bigger, or the product is being presented very close to the scan window. An additional benefit from a large window in fast-paced retail scanning, is that the user, regardless of experience, doesn't need to be precise when lining up a code for a successful read.

Comfortable Experience.
The FM80 Salmon's short & long-range illumination and anti-glare are designed for customer-facing applications, such as retail self-service and POS scanning. They prevent the user from being dazzled by sharp illumination and reflections, ensuring a comfortable user experience. Additionally, the FM80 Salmon has a good performance scanning from customer phone-screens.

Mounting and integration.
As a fixed and mountable scanner that is designed to become part of an installation that often requires the scanner to be flush, the FM80 Salmon has 6 anchor points on the front edge of its window. The IP52 rating requires additional protection from the elements for an exposed application. With this in mind, we have added a soft inlay around the edge of the window for a more comfortable fit into some enclosures.

Superior Scanning Performance.
As another example of Newland's megapixel scanning technology, the FM80 Salmon delivers stunning performance on decoding even poor-quality and damaged barcodes. Additional benefits for megapixel scanning enable reliable decoding on the higher density 2D barcodes featured on alcohol, tobacco and pharmaceutical products.

Double reading prevention.
The FM80 Salmon uses active sensors that know the difference between a code that's being presented to be read from one that is not. It knows the difference between a deliberate swipe of a code compared to a code being static for longer than the natural decode time out session. This helps prevent accidental misreads of the same barcode twice.

5 Years Full Warranty

EasySet

TECHNICAL SPECIFICATIONS

FM80 Salmon

Data Capture

1D	All major 1D symbologies, including EAN-13, EAN-8, UPC-A, UPC-E, Code 128, Code 39, Codabar, UCC/EAN 128, RSS, Interleaved 25, ITF 14, ITF 6, Standard 25, Matrix 25, COOP 25, Industrial 25, Plessey, MSI Plessey, Code 11, Code 93, Code 49, Code 16K.
2D	All major 2D symbologies, including PDF417, QR Code, Data Matrix, Micro PDF417, Micro QR.
Depth of Field EAN 13 (13mil)	0 mm - 140 mm
Field of View Horizontal	42.4°
Field of View Vertical	36°
GS1 Ready	Yes
Illumination	Red LED (614nm-624nm)
Image Sensor	1280 x 1088 CMOS
Minimal Print Contrast	>15%
Motion Tolerance	3.5 m/s
Scan Angle Pitch	±55°
Scan Angle Roll	360˚
Scan Angle Skew	±50°
Scan Modes	Advanced Sense Mode

Physical

Current @ 5VDC Operating	500 mA (typical)
Current @ 5VDC Standby	<100 mA
Dimensions	149(W) × 78.5(D) × 166.5(H) mm
Input Voltage	5 VDC ±5%
Interfaces	RS-232, USB
Notifications	Beep, LED
Power Consumption	Operating: 2W (typical), 2.5W (max.); standby: 1.25W
Weight	448.3 g

Environmental

Electro Static Discharge (ESD)	±15 kV (air discharge), ±8 kV (direct discharge)
Humidity	5% to 95% (non-condensing)
IP Rating	IP52
Operating Temperature	-20°C to 50°C (-4°F to 122°F)
Storage Temperature	-40°C to 70°C (-40°F to 158°F)

Software

Configuration Tools	EasySet

Certifications

Certifications Hardware	FCC Part15 Class B, CE EMC Class B

Warranty

Warranty Standard	5 Years

Accessories

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

What's in the box?

NLS-FM8080-20	FM80 Salmon, 3 meter USB cable

Accessories

Charging/Power	ADP100 Power Supply for HR, FR, and FM Series (ADP100)
Cables	CBL0157R RS232 Cable for FR80 and FM80 Series (CBL0157R) CBL017U RJ to USB-C Cable for HR, FR and FM Series (CBL017U) CBL042UA V5.0 USB Cable for FM, and FR Series (CBL042UA V5.0) CBL151U USB Cable for FM80 and FR80 (CBL151U)
Peripherals	EX232 Remora (NLS-EX232-01)

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Feel free to contact us or a partner near you.
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