Newland
SCANNING MADE SIMPLE

1D & 2D
Fast Motions
Wide Scan Angle
Megapixel
USB
IP52
EasySet
Warranty 2 Years



FM80 Salmon

Stationary Scanners

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.





Suggested industries

Retail

FM80 Salmon Technical specifications

Performance	
Image Sensor	1280x1080 CMOS
Illumination	Red LED (614nm-624nm)
Depth of Field EAN 13 (13mil)	0mm-140mm
Minimal Print Contrast	>15%
Scan Angle Roll	360°
Scan Angle Pitch	±55°
Scan Angle Skew	±50°
Field of View Horizontal	42.4°
Field of View Vertical	36°
Scan Modes	Advanced sense mode
Motion Tolerance	3.5m/s
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, Chinese Sensible Code, Micro PDF417, GM Code, Micro QR, Code One.
Physical	
Dimensions (mm)	149(W)×78.5(D)×166.5(H)mm
Weight	448.3g
Interfaces	RS-232, USB
Notifications	Beep, LED indicator
Input Voltage	5 VDC±5%
Current @ 5VDC Operating	500mA (typical)
Current @ 5VDC Standby	<100mA
Power Consumption	operating: 2W (typical), 2.5W (max.); standby: 1.25W
Environmental	
Operating Temperature	-20°C to 50°C (14°F to 122°F)
Storage Temperature	-40℃ to 70℃ (-40°F to 158°F)
Humidity	5% to 95% (non-condensing)
Electro Static Discharge (ESD)	±15 kV (air discharge), ±8 kV (direct discharge)
IP Rating	IP52
Accessories	
Standard	USB cable used to connect the FM80 to a host device
Software	
Configuration Tools	EasySet

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Certifications	
Hardware	FCC Part15 Class B, CE EMC Class B
Warranty	
Standard	2 years

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