



1D & 2D



Fast
Motions



Wide
Scan
Angle



Megapixel



Dual
Interface



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

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. |
| Image Sensor | 1280 * 1088 CMOS |
| Illumination | Red LED (614nm-624nm) |
| Scan Modes | Advanced sense mode |
| Depth of Field EAN 13 (13mil) | 0mm-140mm |

Performance

| | |
|--------------------------|--------|
| 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° |
| Motion Tolerance | 3.5m/s |

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°C to 70°C (-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 |

Software

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

Certifications

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

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Specifications are subject to change without notice

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|----------|---------|
| Warranty | |
| Standard | 2 years |