



FR80 Salmon

Presentation 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 FR80 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 & small DOF help capture barcodes even when goods are bigger, or the product is being presented very close to the scan window. Another benefit for fast-paced checkouts is that less experienced users don't need to be precise when lining up codes for a successful read.

Comfortable Experience.

The FR80 Salmon's short & long-range illumination and anti-glare are designed for customer-facing applications, such as retail self-service and POS scanning. This prevents user being dazzled by sharp illumination and reflections. Additionally, the FR80 Salmon performs well when scanning off phone-screens.

Superior Scanning Performance.

Packing Newland's top megapixel technology, the FR80 Salmon delivers stunning performance when decoding poor-quality and damaged barcodes, as well as higher density 2D barcodes found on alcohol, tobacco and pharmaceutical products.

Double reading prevention.

The FR80 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.

Adding more scanners.

The FR80 Salmon has an RJ connection available, designed to add another scanner. This is particularly useful for capturing codes on bulkier items, especially those not practical for static/conveyor POS or some self-service applications. A customer-facing POS could benefit from a dedicated scanner for loyalty codes, e-vouchers or scan to pay barcodes.

Setting the tone.

The FR80 Salmon gives the user a choice of audible feedback tones and volumes with 2 user-accessible buttons. The buttons can be deactivated as part of a custom config via the user manual or EasySet configuration software.

EAS deactivation.

The FR80 Salmon has an integrated single antenna system for deactivating EAS security tags. Compatible with the major single loop EAS systems, including Checkpoint, the antenna is placed near the scan window for easy use.

5 Years Full Warranty

EasySet

TECHNICAL SPECIFICATIONS

FR80 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° |
| 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 | 400 mA (typical) |
| Current @ 5VDC Standby | < 100 mA |
| Dimensions | Without base: 151 (W) x 141.5 (H) x 97.5 (D) mm, With base: 151 (W) x 156.5 (H) x 108.5 (D) mm |
| Input Voltage | 5 VDC ±5% |
| Interfaces | USB, RS-232 |
| Notifications | Beep, LED |
| Power Consumption | 2W (typical), 2.5W (max.) |
| Weight | Without base: 542 g, With base: 678 g |

Environmental

| | |
|--------------------------------|--|
| Electro Static Discharge (ESD) | ±8 kV (direct discharge), ±15 kV (air 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 |
|---------------------|---------|

Warranty

| | |
|-------------------|---------|
| Warranty Standard | 5 Years |
|-------------------|---------|

Accessories

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

What's in the box?

NLS-FR8080-20

FR80 Salmon, "L" mounting bracket, 3 meter USB cable, Multiplug adapter

Accessories

Charging/Power

ADP100 Power Supply for HR, FR, and FM Series (ADP100)

Cables

CBL0155R Coiled Cable for FR80 and FM80 Series (CBL0155R)
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)
CBL127R Cable for FR80 (CBL127R)
CBL151U USB Cable for FM80 and FR80 (CBL151U)

Peripherals

EX232 Remora (NLS-EX232-01)

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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