

# FM80 Salmon AI

Scanners fixes



## Features

### AI-Powered Barcode Detection

The FM80 Salmon AI features Newland's UIMG and AI-Powered Barcode Detection technologies. These advanced systems enable rapid, accurate, and reliable decoding of both 1D and 2D barcodes, even when damaged, distorted, reflective, or on curved surfaces. The Salmon uses computer vision and self-learning capabilities to accurately interpret barcodes. It efficiently analyzes images to detect, locate, and read barcodes. The FM80 Salmon AI performs exceptionally well in challenging conditions, providing a dependable scanning solution that operates flawlessly in any situation.

### Advanced OCR Technology

The FM80 Salmon AI is equipped with advanced OCR technology, allowing it to scan and accurately extract text from IDs and official documents. This feature makes the Salmon an ideal scanner for applications that require precise data capture, such as border control, age verification in retail, postal sorting facilities, and library check-in and checkout processes.

### Status Indicators

The FM80 Salmon AI is equipped with six different status indicators that indicate the scanner's current operating status. These indicators provide information on decoding, configuration, communication, and any abnormal conditions. This feature is particularly valuable in fast-paced settings, such as point-of-sale applications, as it enables users to quickly confirm whether a barcode has been scanned correctly, helping avoid unnecessary delays at checkout.

### EAS deactivation.

The FM80 Salmon AI features a built-in single antenna system for deactivating EAS security tags. It is compatible with major single-loop EAS systems, including Checkpoint, and is conveniently placed near the scan window for easy access.

### Advanced Sense Mode

The FM80 Salmon AI includes an advanced sensing mode that detects presented barcodes for reading. For each displayed barcode, the scanner initiates a decoding session to prevent multiple readings of the same barcode. This feature helps avoid accidental misreads, thereby reducing time lost during the scanning process.

### Mount-Ready Design

The FM80 Salmon AI features six anchor points along the front edge of its window, making it easier to mount and integrate into installations like kiosks. Additionally, a soft inlay surrounds the window's edge, providing a more comfortable fit within enclosures.

### Large Scan Window

The FM80 Salmon AI boasts a large scan window, which allows it to capture barcodes even when products are presented very close to the scanner. This large window is particularly beneficial in fast-paced retail environments, as it enables users of all experience levels to scan codes successfully without needing precise alignment of the barcode with the scanner.

## TECHNICAL SPECIFICATIONS

## FM80 Salmon AI

## Capture de données

|                                     |                                                                                                                                                                                                                                                                               |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1D                                  | code 11, Code 128, Code 39, GS1-128 (UCC/EAN128), AIM 128, ISBT 128, CodaBar, Code 93, UPC-A/UPC-E, Coupon, EAN-13, EAN-8, ISSN, ISBN, Interleaved 2/5, Matrix 2/5, Industrial 2/5, ITF-14, ITF-6, Standard 2/5, China post 25, MSI-Plessey, GS1 Composite, GS1 Databar (RSS) |
| 2D                                  | PDF417, QR Code, Data Matrix, Aztec                                                                                                                                                                                                                                           |
| Profondeur de champ EAN 13 (13 mil) | 0mm - 140mm                                                                                                                                                                                                                                                                   |
| Champ de vision horizontal          | 42.4°                                                                                                                                                                                                                                                                         |
| Champ de vision vertical            | 36°                                                                                                                                                                                                                                                                           |
| Compatible GS1                      | Oui                                                                                                                                                                                                                                                                           |
| Éclairage                           | LED rouge                                                                                                                                                                                                                                                                     |
| Capteur d'image                     | 1280 x 1088 CMOS                                                                                                                                                                                                                                                              |
| Contraste d'impression minimal      | 15%                                                                                                                                                                                                                                                                           |
| Résolution                          | ≥3mil (1D)                                                                                                                                                                                                                                                                    |
| Angle de basculement de la lecture  | ±50°                                                                                                                                                                                                                                                                          |
| Angle de rotation de la lecture     | 360°                                                                                                                                                                                                                                                                          |
| Angle d'inclinaison de la lecture   | ±50                                                                                                                                                                                                                                                                           |
| Modes de lecture                    | Mode de détection avancé                                                                                                                                                                                                                                                      |

## Caractéristiques physiques

|                                      |                                        |
|--------------------------------------|----------------------------------------|
| Courant de 5 V CC en fonctionnement  | 280mA (typical), 800 mA (Max)          |
| Courant de 5 V CC en veille profonde | 155 mA                                 |
| Dimensions (mm)                      | 149(W) x 78.5(H) x 166.5(D) mm         |
| Tension d'entrée                     | 5 VCC ±5 %                             |
| Interfaces                           | USB-HID, USB-CDC, RS-232, HID-POS, USB |
| Notifications                        | Bip, LED                               |
| Poids                                | 455g                                   |

## Environnement

|                                |                                                        |
|--------------------------------|--------------------------------------------------------|
| Décharge électrostatique (ESD) | ±15 kV (décharge dans l'air), ±8 kV (décharge directe) |
| Humidité                       | 5 % à 95 % (sans condensation)                         |
| Indice de protection           | IP52                                                   |
| Température de fonctionnement  | de -20 °C à 50 °C (de -4 °F à 122 °F)                  |
| Température de stockage        | de -40 °C à 70 °C (de -40 °F à 158 °F)                 |

## Logiciel

|                         |         |
|-------------------------|---------|
| Outils de configuration | EasySet |
|-------------------------|---------|

## Garantie

|                   |       |
|-------------------|-------|
| Garantie standard | 5 ans |
|-------------------|-------|

## Accessoires

|                       |                                                |
|-----------------------|------------------------------------------------|
| Accessoires en option | Adaptateur multiprise, Câble USB, Câble RS-232 |
| Accessoires standard  | Câble USB                                      |

## Qu'y a-t-il dans la boîte ?

|                    |                                                |
|--------------------|------------------------------------------------|
| NLS-FM8080V2-E-U30 | FM80 Salmon AI, 3 meter USB cable, EAS antenna |
|--------------------|------------------------------------------------|

# Accessories

## Charge/Alimentation

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

## Câbles

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)

## Périphériques

EX232 Remora (NLS-EX232-01)

## Newland AIDC EMEA

Feel free to contact us or a partner near you.  
[info@newland-id.com](mailto:info@newland-id.com) - [newland-id.com](https://newland-id.com)

Specifications are subject to change without notice  
© Newland AIDC EMEA 2026 - All rights reserved