

FR80 Salmon AI

Scanner da presentazione



Features

AI-Powered Barcode Detection

The FR80 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 FR80 Salmon AI performs exceptionally well in challenging conditions, providing a dependable scanning solution that operates flawlessly in any situation.

Advanced OCR Technology

The FR80 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 FR80 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 FR80 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 Multi-Core Processing Platform.

Equipped with a multi-core processing platform, the FR80 Salmon AI delivers powerful computing capabilities, ensuring faster and more stable decoding performance.

Large Scan Window

The FR80 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.

Setting the tone.

The FR80 Salmon allows users to select different audible feedback tones and volumes using two easily accessible buttons. These buttons can be disabled as part of a custom configuration via the user manual or EasySet configuration software.

TECHNICAL SPECIFICATIONS

FR80 Salmon AI

Capacità di decodifica

1D	All major 1D symbologies, including EAN-13, EAN-8, UPC-A, UPC-E, Code 128, Code39, 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.
Profondità di campo EAN 13 (13 mil)	0 mm - 140 mm
Campo di visuale orizzontale	42.4°
Campo di visuale verticale	36°
Compatibile con GS1	Si
Illuminazione	LED rosso (614 nm-624 nm)
Sensore immagine	1280 x 1088 CMOS
Contrasto di stampa minimo	15%
Motion Tolerance	3,5 m/s
Risoluzione	≥3mil (1D)
Angolo di scansione Pitch	±50°
Angolo di scansione Roll	360°
Angolo di scansione Skew	±50°
Velocità di scansione	Modalità di rilevamento avanzata

Caratteristiche fisiche

Corrente in esercizio @ 5VDC	280 mA (typical), 500 mA (max.)
Corrente in standby @ 5VDC	155 mA
Dimensioni (mm)	Without base: 151 (W) x141.5 (H) x97.5 (D) mm (max.); With base: 151 (W) x156.5 (H) x108.5 (D) mm (max.)
Tensione in ingresso	5 V CC ±5%
Interfacce	USB, RS-232
Notifiche	Segnale acustico, LED
Consumo energetico	2W (typical), 2.5W (max.)
Peso	549 g (without base), 681 g (with base)

Ambientale

Scarica elettrostatica (ESD)	±8 kV (scarica diretta), ±15 kV (scarica in aria)
Umidità	Da 5% a 95% (senza condensa)
Classificazione IP	IP52
Temperatura di esercizio	da -20 °C a 50 °C (da -4 °F a 122 °F)

Temperatura di stoccaggio	da -40 °C a 70 °C (da -40 °F a 158 °F)
Software	
Tools per la configurazione	EasySet
Certificazioni	
Certificazioni Hardware	FCC Part15 Class B, CE EMC Class B
Garanzia	
Garanzia standard	5 anni
Accessori	
Accessori opzionali	Cavo USB, Cavo RS-232
Accessori standard	Adattatore di alimentazione, Cavo USB, Piastra di montaggio
Cosa contiene la confezione?	
NLS-FR8080V2-E-U30	FR80 Salmon AI, 3 meter USB cable, EAS antenna, Multiplug adapter

Accessories

Ricarica/Alimentazione	ADP100 Power Supply for HR, FR, and FM Series (ADP100)
Cavi	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)
Periferiche	EX232 Remora (NLS-EX232-01)

Newland AIDC EMEA

Feel free to contact us or a partner near you.
info@newland-id.com - newland-id.com

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