



FR40 Koi

Presentation Scanners

 1.2m drop	 1D & 2D	 Dual Interface	 EasySet	 Fast Motions	 GS1 Ready
 Infrared	 IP52	 Megapixel	 Warranty 5 Years		



Features

First megapixel presentation scanner.
At the top of the line, the FR40 Koi reads 1D and 2D barcodes, including Aztec, with speed and accuracy. It is the first presentation scanner on the market that includes a megapixel camera and is capable of reading even the most complex codes. This makes it the perfect solution for applications like POS systems in retail and pharmacy, ticket verification and more.

Unmatched flexibility.
With a switch to toggle between paper and screen mode, the FR40 Koi is ready for any barcode that it is presented with. This added flexibility, leaves this hardware unaffected.

Comfortable Illumination.
With a 10° angle and soft illumination, the FR40 Koi guarantees comfort to both customers and employees. When facing outwards, the illumination will not draw unnecessary attention.

IP52 rated sealing.
With an IP52 rated seal, the FR40 Koi is protected against dust, water and other contaminants.

1.2m drop resistance.
The FR40 Koi withstands multiple 1.2m drops to concrete (six sides, one drop per side).

IR trigger.
The IR sensor in the FR40 Koi enables the speedy capture of any barcode presented to it, markedly increasing output and productivity.

5 Years Full Warranty



TECHNICAL SPECIFICATIONS

FR40 Koi

Data Capture

1D	All major 1D symbologies, including EAN-13, EAN-8, UPC-A, UPC-E, ISSN, ISBN, Codabar, Code 128, Code 93, ITF-6, ITF-14, Interleaved 2 of 5, Industrial 2 of 5, Standard 2 of 5, Matrix 2 of 5, GS1 Databar, Code 39, Code 11, MSI-Plessey, Plessey.
2D	All major 2D symbologies, including PDF417, Data Matrix, QR Code, Micro QR Code, Aztec.
Depth of Field EAN 13 (13mil)	10 mm - 210 mm

Depth of Field QR (15mil)	10 mm - 180 mm
Field of View Horizontal	51°
Field of View Vertical	32°
Illumination	White LED
Image Sensor	1280 x 800 CMOS
Minimal Print Contrast	25%
Motion Tolerance	2.5 m/s
Scan Angle Pitch	±50°
Scan Angle Roll	360°
Scan Angle Skew	±45°

Physical

Current @ 5VDC Operating	219 mA (typical)
Dimensions	83(W) x 81(D) x 148(H) mm
Input Voltage	5 VDC ±5%
Interfaces	USB, RS-232
Notifications	Beep, LED
Power Consumption	1041 mW (typical)
Weight	293 g

Environmental

Drop	1.2 m
Electro Static Discharge (ESD)	±14 kV (air discharge), ±8 kV (direct discharge)
Humidity	5% to 95% (non-condensing)
IP Rating	IP52
Operating Temperature	-20°C to 60°C (-4°F to 140°F)
Storage Temperature	-40°C to 70°C (-40°F to 158°F)

Software

Configuration Tools	EasySet
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Certifications

Certifications Hardware	CE EMC Class B, FCC Part15 Class B, RoHS
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Warranty

Warranty Standard	5 Years
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Accessories

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

What's in the box?

NLS-FR4080-20	FR40 Koi, 2 meter USB cable
NLS-FR4080-27	FR40 Koi, 2 meter RS-232 cable
NLS-FR4080-28	FR40 Koi, 2 meter RS-232 cable, Multiplug adapter

Accessories

Charging/Power

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

Cables

CBL017U RJ to USB-C Cable for HR, FR and FM Series (CBL017U)
CBL025R RS232 Cable for FR and FM Series (CBL025R)
CBL026U USB Cable for FR and FM series (CBL026U)
CBL030UA USB Cable for HR12, HR32 and HR52 Series (CBL030UA)
CBL036UA USB Cable for HR, FM, and FR Series (CBL036UA)
CBL037R RS232 Cable for HR, FR, and FM Series (CBL037R)
CBL042UA USB Cable for HR, FM, and FR Series (CBL042UA)

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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