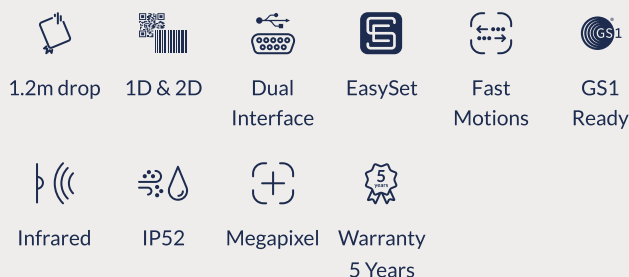


# FR40 Koi

Presentation Scanners



## 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

**EasySet**

# 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°                                                                                                                                                                                                                                                 |
| GS1 Ready                     | Yes                                                                                                                                                                                                                                                 |
| 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               | RS-232, USB               |
| 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 |
|---------------------|---------|

## Certifications

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

## Warranty

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

Accessories

|                      |                                                         |
|----------------------|---------------------------------------------------------|
| Accessories Optional | USB cable, USB-C cable, RS-232 cable, Multiplug adapter |
| 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)  
CBL026U USB Cable for FR and FM series (CBL026U)  
CBL030UA USB Cable for HR, FM, and FR (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)