











FR27 Urchin

Presentation Scanners

 1.5m drop	 1D & 2D	 EasySet	 IP42	 Mobile Reading	 USB
 Visual Feedback	 Warranty 5 Years				



Features

Superior self-service scanning from screen

The FR27 Urchin is primarily designed to be easy to use for self-service scanning from customers' phone screens. A remarkably wide field of view means even the largest codes presented on the largest phone screens are scanned easily.

Snappy scanning from paper, metal and plastic

Printed barcodes are still used in many applications, so the FR27 Urchin makes sure it can cope with them. It maintains top performance with all types of 1D and 2D codes presented to it on paper, metal and plastic surfaces. Even curved and creased codes pose no challenge.

Small and stylish

The FR27 Urchin packs all its scanning power into a small, sleek design. Making not only a great space saver but looking good while doing so. The scanner has a smooth and simple finish that blends well with any countertops design from boutique to café.

Fast scanning with outstanding motion tolerance

The FR27 Urchin has an outstanding 2.7m per second motion tolerance for applications where fast scanning on moving codes is vital. Clearing lines of customers self-scanning or clearing baskets of items at the point of sale, the FR27 gives you more speed than ever before.

Clear visual feedback

Using soft white illumination to scan barcodes, the FR27 Urchin also utilises its white background to project a green led, indicating a good read. Visual feed-back in a self-service application makes all the difference in giving customers confidence in achieving a successful scan.

Flexible mounting options

Mindful that the FR27 Urchin can suit access control and kiosk applications, its case has a design that allows you to manipulate the cable for mounting portrait or landscape. It also has threaded fixing points for vertical mounting.

5 Years Full Warranty

 EasySet

TECHNICAL SPECIFICATIONS

FR27 Urchin

Data Capture

1D	All major 1D symbologies.
2D	All major 2D symbologies, including QR Code, Data Matrix, Aztec, Micro PDF, Micro QR, PDF417.
Depth of Field DataMatrix (10mil)	30 mm - 45 mm
Depth of Field EAN 13 (13mil)	20 mm - 105 mm

Depth of Field PDF417 (6.67mil)	30 mm - 40 mm
Depth of Field QR (15mil)	0 mm - 85 mm
Field of View Diagonal	84.8°
Field of View Horizontal	68°
Field of View Vertical	51°
Illumination	White LED
Image Sensor	640 x 480 CMOS
Minimal Print Contrast	20%
Motion Tolerance	2.7 m/s
Scan Angle Pitch	±75°
Scan Angle Roll	360°
Scan Angle Skew	±75°
Scan Modes	Sense Mode, Continuous Mode

Physical

Current @ 5VDC Operating	140 mA (typical)
Current @ 5VDC Standby	100 mA (typical)
Dimensions	66.3(W) x 76.3(D) x 38(H) mm
Input Voltage	5 VDC ±5%
Interfaces	USB
Power Consumption	698 mW
Weight	120 g

Environmental

Ambient Light	0 to 100,000 lux (natural light)
Drop	1.5 m
Electro Static Discharge (ESD)	±8 kV (direct discharge), ±12 kV (air discharge)
Humidity	5% to 95% (non-condensing)
IP Rating	IP42
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, RoHS, VCCI, CE
-------------------------	---------------------

Warranty

Warranty Standard	5 Years
Accessories Standard	USB cable



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

What's in the box?