Newland
SCANNING MADE SIMPLE

1d 2d megapixel ir easyset usb

warranty 5 years



FR50 Pearl

stationary scanners

Features

Megapixel Barcode Scanner

Armed with Newlands cutting-edge 2D megapixel barcode technology, the FR50 Pearl has an excellent scanning performance on 1D and 2D barcodes. Its higher resolution means even small barcodes can be read from a longer distance. Inverse and rectangular 2D codes, even if printed with challenges, are no issue.

Sophisticated design.

Designed to be the jewel in the crown, the FR50 Pearl is made with high-quality materials and presented to be the next generation scanner. As a stunner in both in black or white (project only), it blends into its environment perfectly, or can function as a true eyecatcher. The stationary scanner is particularly suited to non-food retail or boutique point-of-sale countertops.

IR & light sensors.

The FR50 Pearl has an excellent combination of both an IR sensor and a light sensor. The light sensor works best in well-lit conditions, sensing the changes in light as a barcode is presented to it. The IR sensor has a shorter range but activates the scanner even in a poorly lit environment.

Automatic Exposure Control (AEC)

The sensor in the FR50 Pearl automatically adjusts the duration of the light it projects, adapting to the glare reflected back off the barcode. Switching from scanning a code printed low-contrast on paper to scanning codes presented on highly reflective phone screens, is no issue. This makes the Pearl a great solution for customer-facing applications.

Mount anywhere.

The FR50 Pearl's magnetic socket clamps easily and firmly to a variety of mounting options. Offering not only versatility in mounting style and function, the simple design of the scanner's connection point also makes for effortless cleaning with our recommended cleaning solutions.

Safe aiming.

Whether staff-attended or self-service, the FR50 Pearl uses safe LED aiming to help position the presented barcodes without any of the health risks associated with laser-class aiming solutions.



Available in white on request



Application Scenarios

healthcare hospitality mobile payment retail

self service ticketing

FR50 Pearl technical specifications

Performance	Image Sensor	1280 x 800 CMOS
	Illumination	Red LED
	Aiming	Green LED
	Depth of Field EAN13 (13mil)	55-360mm
	Depth of Field CODE 39 (5mil)	80-170mm
	Depth of Field PDF417 (6.67mil)	55-160mm
	Depth of Field Data Matrix (10mil)	50-170mm
	Depth of Field QR (15mil)	40-210mm
	Minimal Print Contrast	30%
	Scan Angle Roll	360°
	Scan Angle Pitch	±55°
	Scan Angle Skew	±55°
	Field of View Horizontal	51°
	Field of View Vertical	32°
	Scan Modes	sense mode and continuous mode
Data capture	1D	EAN-13, EAN-8, UPC-A, UPC-E, Code 128, Code 39, Codabar, UCC/EAN 128, RSS, ITF, ITF-14, ITF6, Standard 25, Matrix 25, COOP 25, Industrial 25, Plessey, MSI Plessey, Code 11, Code 93, Code 49, Code 16K, etc.
	2D	PDF417, QR Code, Data Matrix, AZTEC, CSC, Maxicode, Micro QR, Micro PDF417, GM, Code One, etc.
Physical	Dimensions (mm)	scanner: 68(W) x 61.8(D) x 68.2(H) mm; cradle: 75(W) x 75(D) x 153.5(H) mm
	Weight	Scanner: 202g; Cradle: 324g
	Interfaces	RS-232, USB
	Notifications	Beep, LED indicator
	Input Voltage	5VDC±5%
	Current @ 5VDC Operating	306mA (typical), 311.5mA (max.)
	Current @ 5VDC Standby	173.9mA
	Power Consumption	1530mW (typical)
Environmental	Operating Temperature	-20°C to 60°C (-4°F to 140°F)
	Storage Temperature	-40°C to 70°C (-40°F to 158°F)
	Humidity	5% to 95% (non-condensing)
	Electro Static Discharge (ESD)	±14 kV (air discharge), ±8 kV (direct discharge)
	Sealing	IP42
Accessories	Standard	USB cable used to connect the FR50 Pearl to a host device
Device Management	Software	EasySet (configuration)
Certifications	Certifications	FCC Part 15 Class B, CE EMC Class B, RoHS, IEC62471
Warranty	Warranty	5 years

Newland EMEA HQ
+31 (0) 345 87 00 33
info@newland-id.com
newland-id.com

Feel free to contact us or a partner near you
visit newland-id.com/partners

© Newland EMEA 2020, all rights reserved

Newland
SCANNING MADE SIMPLE