Newland
SCANNING MADE SIMPLE

1d	2d	ir	ip54	1.5m drop	usb

rs232

FM415 Bass
stationary scanners

Features

Snappy, even in less than perfect conditions

A combination of the IR sensor and the light sensor helps keep workers moving, even in low light conditions. Its strong, white light ensures barcodes are always well lit.

Handsfree or manual scanning

Companies looking for automatic scanning to relieve manual labor can set up the FM415 Bass for hands free scanning. Alternatively, a manual trigger button can be used if preferred.

Intelligent programming

The sensors of the FM415 Bass automatically adjust the brightness of supplementary lighting based on the light that reflects off the barcode. This also makes it an optimal solution for scanning from mobile phone screens. Depending on the application, the scanner can be set to optimally read from close and long distance.

Reliable outdoor use

With an IP rating of 54, this fixed mount scanner can be placed in a housing and used outdoors without worrying about dust or moisture.

Application Scenarios

access control   self service   ticketing

Performance	Image Sensor	640x480 CMOS
	Illumination	White LED
	Aiming	Red LED
	Depth of Field EAN13 (13mil)	55-250mm
	Depth of Field CODE 39 (5mil)	70-120mm
	Depth of Field PDF417 (6.67mil)	50-120mm
	Depth of Field Data Matrix (10mil)	50-120mm
	Depth of Field QR (15mil)	25-190mm
	Minimal Print Contrast	25%
	Scan Angle Roll	360°
	Scan Angle Pitch	±60°
	Scan Angle Skew	±60°
	Field of View Horizontal	42°
	Field of View Vertical	31.5°
	Scan Modes	sense mode, continuous mode, level mode
Data capture	1D	Code128, UCC/EAN-128, AIM128, EAN-8, EAN-13, ISBN/ISSN, UPC-E, UPC-A, Interleaved 2 of 5, ITF-6, ITF-14, Standard 25, Codabar, Industrial 25, Code39, Code 93, Code 11, Plessey, MSI-Plessey, GS1-128 (UCC/EAN-128), GS1-DataBarTM(RSS) (RSS-14, RSS-Limited, RSS-Expand), Matrix 2 of 5, Standard 25, Plessey
	2D	PDF417, Micro PDF417 QR, Micro QR, DataMatrix, AZTEC, Maxicode
Physical	Dimensions (mm)	49(W)x69(D)x20(H)mm
	Weight	64.6g
	Interfaces	RS-232, USB
	Notifications	Beep
	Input Voltage	5VDC±5%
	Current @ 5VDC Operating	228mA (typical), 264mA (max)
	Current @ 5VDC Standby	50.0mA
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)
	Drop	1.5m
	Sealing	IP54
Accessories	Standard	USB cable: used to connect the FM415 to a host device; RS-232 cable: used to connect the FM415 to a host device; DC5V power adapter to power the FM415 with the RS-232 cable
Certifications	Certifications	FCC Part 15 Class B, CE EMC Class B
Waranty	Warranty	2 years

Newland
SCANNING MADE SIMPLE