



**FM415**  
stationary scanners

## Features

### UIMG Technology

Armed with Newland's UIMG technology, the FM415 quickly and effortlessly decodes both 1D and 2D barcodes.

### IR & Light Triggers

Achieving higher output and productivity is easy for the FM415. With the combination of both an IR and light sensor, the FM415 has excellent sensitivity when it comes to activating the scanner as barcodes are presented.

### Automatic Exposure Control

The sensor in the FM415 automatically adjusts to supplementary lighting duration based on the light reflected off the barcode presented.

### Sealed for Protection

The FM415 is ready for the elements with an IP54 rating to prevent dust, moisture and other contaminants.

### Drop Ready

The FM415 withstands multiple 1.5m drops to concrete.



## Application Scenarios



# FM415 technical specifications

<b>Performance</b>	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
	<b>Data capture</b>	1D
2D		PDF417, Micro PDF417 QR, Micro QR, DataMatrix, AZTEC, Maxicode
<b>Physical</b>	Dimensions (mm)	49(W)x69(D)x20(H)mm
	Weight	64.6g
	Interfaces	RS-232, USB
	Notifications	Beep
	Input Voltage	5VDC±5%
	Current @ 5VDC	228mA (typical), 264mA (max)
	Operating Current @ 5VDC Standby	50.0mA
<b>Environmental</b>	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
<b>Accessories</b>	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
<b>Certifications</b>	Certifications	FCC Part 15 Class B, CE EMC Class B