

## NLS-FM420 Series

### Mobile Phone 1D/2D Barcode Scanner



Designed for OEM applications, this high performance fixed 1D/2D CMOS scan engine can easily be integrated into various solutions such as kiosks, ticketing machines, (Reverse) Vending Machines, mobile ticket validators and many more.

#### Product Features

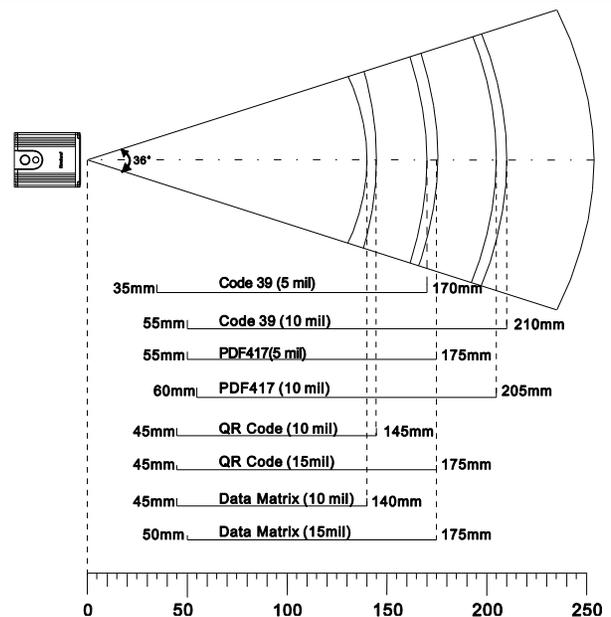
- **Ease of integration**

Compact and easy to integrate design. The small form factor enables easy integration into various solutions. This 1D/2D fixed barcode scanner has an IP54 rating making it dust & water-proof.

- **Advanced Technology**

Includes core-technology **UIMG<sup>®</sup>**, which is independently designed and manufactured by Newland Auto-ID. **UIMG<sup>®</sup>** technology includes the optical, CMOS, digitizer, decoder, image processing & embedded systems. The scanner supports all global standard 1D and 2D barcode symbologies. Its' reading performance reaches and exceeds global standards. By using the accessories provided, the user can ideally set up the scanner to its user environment.

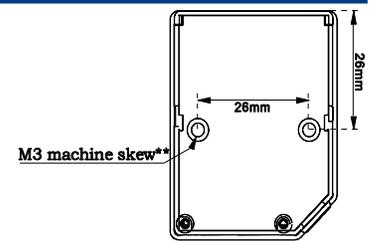
#### Decoding Zones



## Specifications

Performance		
<b>Image Sensor</b>		CMOS
<b>Resolution</b>		752 * 480
<b>Interface</b>		RS232 / USB 1.1
<b>Symbologies**</b>	<b>2D</b>	PDF417, QR Code(Model 1/2), DataMatrix (ECC200, ECC000, 050, 080,100,140), Aztec, Maxicode, etc.
	<b>1D</b>	Code128, EAN-13, EAN-8, Code39, UPC-A, UPC-E, Codabar, Interleaved 2 of 5, ISBN/ISSN, Code 93, etc
<b>Sensitivity</b>	<b>Pitch</b>	±60°@ 0°Roll and 0° Skew
	<b>Roll</b>	360°@ 0°Pitch and 0° Skew
	<b>Yaw</b>	±60°@ 0°Roll and 0° Pitch
<b>Precision</b>		≥ 5mil
<b>CMOS Acquisition</b>		60 fps
<b>Light Source</b>		LED(617.5 nm – 633.5 nm)
<b>Light Intensity</b>		320 LUX (130 mm )
<b>Depth of Scan Field</b>		35mm ~ 210 mm
<b>Print Contrast Signal</b>		≥ 30%
<b>Illumination</b>		0 ~ 100,000 LUX
Mechanical/ Electrical		
<b>Power Consumption</b>		1.75W
<b>Voltage</b>		DC 5 V
<b>Current</b>	<b>Max</b>	420 mA
	<b>Working</b>	260 mA
	<b>Idle</b>	1 mA
<b>Dimensions</b>		49.0(L)*37.0(W)*25.0(H) mm
<b>Weight</b>		70g
Environment		
<b>Operating Temperature</b>		-5°C - +45°C
<b>Storage Temperature</b>		-40°C - +60°C
<b>Humidity</b>		5% - 95%( non-condensing )
Certificates		
FCC Part15 Class B, CE EMC Class B		
Accessories		
<b>Flex Cable</b>	<b>RS232</b>	This cable connect to the RS232 port of FM420 with a RJ45 port. With a standard female RS232 port to connect to standard male RS232 port. With a power port to accept power adapter supply.
	<b>USB</b>	This cable connect to the USB Slave port of FM420 with a RJ45 port. With a standard USB Slave port to connect to standard USB Host port.
<b>Power Adapter</b>		The power adapter for FM420 by the CBL-FM420R. Output: DC 5V, 2A; Input: AC100~240V, 50~60HZ.

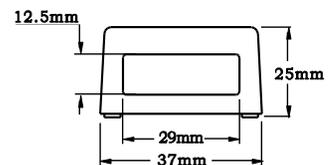
## Dimension (Unit: mm)



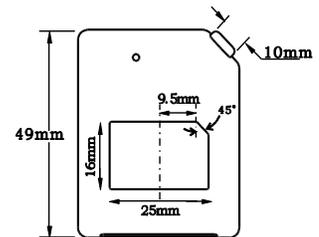
Bottom View



Right View



Front View



Top View

\*\*Note: The length of the screw into FM420 must be less than 5 mm.

## Contact Us

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