



NLS-CM30 V2 OEM SCAN ENGINE

FEATURES

○ **UIMG®** Technology

Armed with Newland's seven-generation of technology, the scan engine can swiftly and effortlessly decode even poor quality barcodes (e.g., low contrast, laminated, damaged, torn, warped or wrinkled).

O Compact & Lightweight Design

Seamless integration of imager sensor and aimer makes the scan engine extremely small and lightweight and easy to fit into miniature equipment.

O Support IIC and MIPI Interfaces

Keeping up with emerging technologies, the NLS-CM30 V2 provides IIC and MIPI interfaces to enable easy integration with the latest processors.

Outstanding Power Efficiency

The advanced technology incorporated in the scan engine helps reduce its power consumption and prolong its service life.







NLS-CM30 V2

Performance

Image Sensor640 * 480 CMOSIllumination5000K White LED

625nm Red LED

Symbologies 2D PDF417, QR Code, Data Matrix

1D Code 128, EAN-13, EAN-8, Code 39, UPC-A, UPC-E, Codabar, Interleaved 2 of 5, ITF-6, ITF-14,

ISBN, Code 93,UCC/EAN-128, GS1 Databar, Matrix 2 of 5, Code 11, Industrial 2 of 5, Standard 2

of 5, Plessey, MSI-Plessey

Resolution 1D ≥3mi

Typical Depth of Field ¹ EAN-13 60mm-330mm (13mil)

Code 39 65mm-150mm (5mil)

PDF417 60mm-120mm (6.7mil)
Data Matrix 50mm-120mm (10mil)
QR Code 35mm-180mm (15mil)

25%

Scan Angle ² Roll: 360°, Pitch: ±60°, Skew: ±60°
Field of View Horizontal 42°, Vertical 31.5°

Physical

Min. Symbol Contrast

Interface IIC, MIPI
Operating Voltage 3.3VDC±5%

Current@3.3VDC Operating ³ 80mA (typical), 85mA (max.)

Idle 11mA Sleep 2.1mA

Dimensions $21.5(W) \times 8.8(D) \times 7.0(H)$ mm (max)

Weight 1.

Environmental

Operating Temperature -20°C to 55°C (-4°F to 131°F)

Storage Temperature -40°C to 70°C (-40°F to 158°F)

Humidity 5% to 95% (non-condensing)

Ambient Light 0~100,000lux (natural light)

Certificates

Certificates & Protection FCC Part 15 Class B, CE EMC Class B, RoHS, IEC62471

Accessories

Cable Optional 13-PIN FPC cable used to connect the NLS-EVK to a host device.

1 Test conditions: T=23°C; Illumination=300lux using incandescent lamp; sample printed barcodes made by Newland.

2 Test conditions: Scan Distance= (min. DOF + max. DOF)/2; T=23°C; Illumination=300lux using incandescent lamp;

2D: QR Code; 10 Bytes; Resolution=30mil; PCS=0.8.

3 Operating Current: Scan Distance=(min. DOF + max. DOF)/2; test in the normal mode.

Specifications are subject to change without notice.

Version: V2.0

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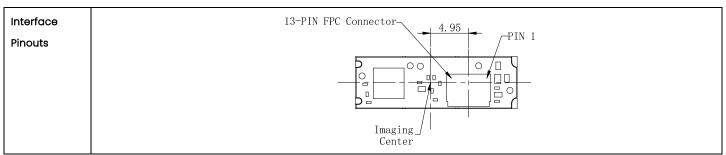
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NLS-CM30 V2

The following table lists the pin functions of the 13-pin FPC connector.

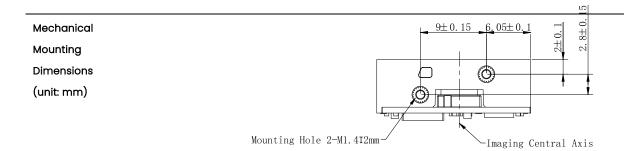
PIN#	Signal	1/0	Function
1	GND	-	Power-supply ground
2	VCC	-	3.3V power input
3	VCC	-	3.3V power input
4	MIPI_MCP	0	MIPI clock signal
5	MIPI_MCn	0	MIPI clock signal
6	MIPI_MD1p	0	MIPI data lane 1
7	MIPI_MD1n	0	MIPI data lane 1
8	MIPI_MD0p	0	MIPI data lane 0
9	MIPI_MD0n	0	MIPI data lane 0
10	EXT_LEDOUT	0	Illumination control signal
11	I2C_SDA	1/0	I2C data signal
12	I2C_SCL	1/0	I2C clock signal
13	GND	-	Power-supply ground

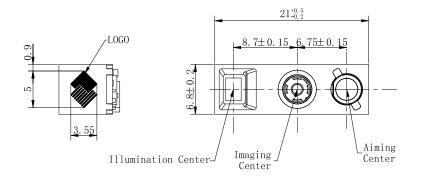


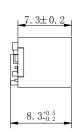
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