



OEM SCAN ENGINE

FEATURES

○ **WIMG®** Technology

Armed with Newland's six-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 User-friendly Illumination & Aiming

Designed with the end user in mind, the NLS-CM60 employs highly visible laser aimer to achieve crisp and accurate targeting while using flicker-free white soft illumination to reduce eye strain and fatigue from long-time operation.

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 Highly Visible Laser Aimer

The NLS-CM60 provides a laser-generated crosshair aiming pattern that is clear and bright even in bright sunlight, ensuring first time accurate aim.









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Image Sensor1280 * 800 CMOSIllumination3000K white LEDAiming650nm red laser

Symbologies 2D PDF417, Micro PDF417, QR Code, Micro QR, Data Matrix, Aztec, Chinese Sensible Code,

Maxicode, etc.

ID EAN-13, EAN-8, UPC-A, UPC-E, Code 128, Code 39, Codabar, UCC/EAN-128, RSS, ITF, ITF14, ITF6,

ISSN, ISBN, Standard 25, Matrix 25, Industrial 25, Plessey, MSI Plessey, Code 11, Code 93, GS1

Composite, etc.

Resolution 1D ≥3mil

 Typical Depth of Field ¹
 EAN-13
 70mm-600mm (13mil)

 PDF 417
 110mm-230mm (6.7mil)

 Code 39
 120mm-280mm (5mil)

Data Matrix 110mm-260mm (10mil) QR Code 55mm-400mm (15mil)

Min. Symbol Contrast 25%

Scan Angle ² Roll: 360°, Pitch: ±50°, Skew: ±50°
Field of View Horizontal 42°, Vertical 28°

Physical

Weight

Interface IIC, MIPI

Operating Voltage VIMG:3.3VDC \pm 5% VLED: 3.3VDC \pm 5% Current Operating 3 115mA (typical) 285mA (max.)

Idle 4.6mA

Dimensions $23.8(W)\times16.7(D)\times7.0(H)$ mm (max.)

2.4g

Environmental

Operating Temperature $-20^{\circ}\text{C to }55^{\circ}\text{C }\left(-4^{\circ}\text{F to }131^{\circ}\text{F}\right)$ Storage Temperature $-40^{\circ}\text{C to }70^{\circ}\text{C }\left(-40^{\circ}\text{F to }158^{\circ}\text{F}\right)$ Humidity 5% to 95% (non-condensing) Ambient Light 0~100,0001ux (natural light)

Certificates

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

Accessories

Cable Optional 34-PIN board to board cable used to connect the EVK-CM60 to a host device

1 Test conditions: T=23 $^{\circ}\!\text{C}$; Illumination=300lux; sample printed barcodes made by Newland.

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

2D: QR Code; 10 Bytes; Resolution=15mil; PCS=0.8

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

Specifications are subject to change without notice.

Version: V3.0

Newland AIDC

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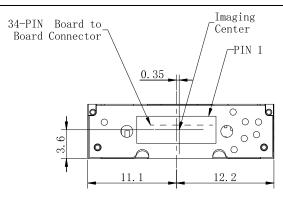


The following table lists the pin functions of the 34-pin board-to-board connector.

The follow	wing table lists the pin	functions	of the 34-pin board-to-board connector.
PIN#	Signal	1/0	Function
1	GND	-	Power-supply ground
2	GND	-	Power-supply ground
3	VIN_3V3_LED_LASER	-	3.3VDC±5% power supply for illumination/aimer
4	MD0n	0	MIPI data lane 0
5	VIN_3V3_LED_LASER	-	3.3VDC±5% power supply for illumination/aimer
6	MD0p	0	MIPI data lane 0
7	NC	-	No connection
8	GND	-	Power-supply ground
9	I2C_SCL	1/0	I2C clock signal
10	MDln	0	MIPI data lane 1
11	GND	-	Power-supply ground
12	MD1p	0	MIPI data lane 1
13	I2C_SDA	1/0	I2C data signal
14	GND	-	Power-supply ground
15	NC	-	No connection
16	MCn	0	MIPI clock signal
17	NC	-	No connection
18	NC	-	No connection
19	NC	-	No connection
20	МСр	0	MIPI clock signal
21	NC	-	No connection
22	GND	-	Power-supply ground
23	NC	-	No connection
24	NC	-	No connection
25	NC	-	No connection
26	NC	-	No connection
27	NC	-	No connection
28	GND	-	Power-supply ground
29	VIN_3V3_IMGR	-	3.3VDC±5% power supply for the engine
30	NC	-	No connection
31	VIN_3V3_IMGR	-	3.3VDC±5% power supply for the engine
32	NC	-	No connection
33	GND	-	Power-supply ground
34	GND	-	Power-supply ground

Interface

Pinouts

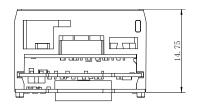


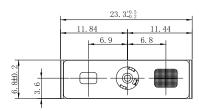
Mechanical

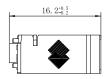
Mounting

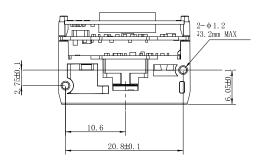
Dimensions

(unit: mm)









Dimensions: 23.8 (W)×16.7 (D)×7.0 (H)mm (max)

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