



OEM SOFTWARE DECODING SCAN ENGINE

FEATURES

O **WIMG®** Technology

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

O Clear Laser Aimer for Acuscan

The NLS-CM60E provides a laser-generated crosshair aiming pattern that is clear and bright even in bright sunlight, ensuring first time accurate aim.

O Compact & Lightweight Design

Seamlessly combining the imager sensor and aimer, the scan engine achieves a compact and lightweight form factor, perfectly suited for miniature equipment. Empower next-generation slim designs with exceptional imaging performance.

O User-friendly Illumination

Soft lighting system without flicker, no glare, no visual fatigue even under continuous high intensity working conditions.















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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.

1D 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 ≥3mi

 Typical Depth of Field ¹
 EAN-13
 55mm-610mm (13mil)

 PDF 417
 110mm-230mm (6.7mil)

 Code 39
 80mm-300mm (5mil)

Data Matrix 90mm-280mm (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

Dimensions

Weight

Interface IIC, MIPI

Operating Voltage VIMG:3.3VDC±5% VLED: 3.3VDC±5% Current Operating ³ 292mA (typical) 706mA (max.)

Idle 2.5mA

 $23.2(W) \times 10.1(D) \times 7.0(H)$ mm (max.)

17a

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 25-PIN FPC cable used to connect the NLS-EVK 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: V1.2

Newland AIDC

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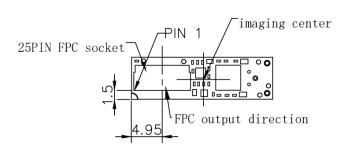


The following table lists the pin functions of the 25-pin FPC connector.

PIN#	Signal	1/0	Function
1	VIMG	-	3.3VDC±5% power supply for the engine
2	VIMG	-	3.3VDC±5% power supply for the engine
3	VIMG	-	3.3VDC±5% power supply for the engine
4	VLED	-	3.3VDC±5% power supply for illumination
5	VLED	-	3.3VDC±5% power supply for illumination
6	VLED	-	3.3VDC±5% power supply for illumination
7	EXT_IO	1/0	Reserved
8	GND	-	Power-supply ground
9	EXT_IO	1/0	Reserved
10	NC	-	
11	GND	-	Power-supply ground
12	I2C_SDA	1/0	I2C data signal
13	I2C_SCL	1/0	I2C clock signal
14	GND	-	Power-supply ground
15	GND	ı	Power-supply ground
16	GND	-	Power-supply ground
17	MIPI_MCN	0	MIPI clock signal
18	MIPI_MCP	0	MIPI clock signal
19	GND	-	Power-supply ground
20	MIPI_MD1N	0	MIPI data lane 1
21	MIPI_MD1P	0	MIPI data lane 1
22	GND	-	Power-supply ground
23	MIPI_MD0N	0	MIPI data lane 0
24	MIPI_MD0P	0	MIPI data lane 0
25	GND	1	Power-supply ground

Interface

Pinouts



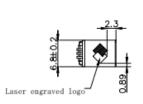
Mechanical

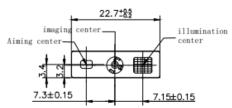
Mounting

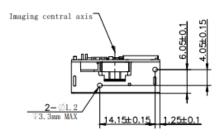
Dimensions

(unit: mm)









Dimensions: 23.2(W)×10.1(D)×7.0(H)mm (max.)

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