

# LV3096R

## OEM Scan Engine



The LV3096R OEM scan engine, armed with the LongView patented **UIMG<sup>®</sup>**, a computerized image recognition system, brings about a new era of 2D barcode scan engines.

The LV3096R's 2D barcode decoder chip ingeniously blends **UIMG<sup>®</sup>** technology and advanced chip design & manufacturing, which significantly simplifies application design and delivers superior performance and solid reliability with low power consumption.

The LV3096R supports all mainstream 1D as well as PDF417, QR Code (M1/M2/Micro), Data Matrix and GS1-DataBar<sup>™</sup>(RSS) (Limited/ Stacked/ Expanded versions).

It can be both external scanner in assembly line, or as built-in scanner for various devices such as kiosk, ticket validators, etc.

### Features:

- **2D Barcode Decoder Chip:** The engine armed with the state-of-the-art 2D barcode decoder chip invented by LongView demonstrates unprecedented reading performance.
- **Two-In-One Design:** Seamless integration of CMOS image sensor and decoder board makes the engine small, lightweight and easy for integration.
- **High Performance & Ultra-Low Power Consumption:** The engine can read 1D and 2D barcodes with a power consumption only one third that of a traditional engine.
- **All-Round Scanning Capability:** It can read barcodes on virtually any medium - paper, plastic cards, mobile phones and LCD displays.

## LV3096 R Specifications

Performance		
<b>Image Sensor</b>		752×480 CMOS
<b>Processor</b>		IOTC 2D decoder chip 48MHz
<b>Illumination</b>		Red LED 625±10 nm
<b>Symbologies</b>	<b>2D</b>	PDF 417, Data Matrix (ECC200,ECC000,050,080,100,140) , QR Code
	<b>1D</b>	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, etc.
<b>Reading Precision</b>		≥ 5mil
<b>Depth of Field*</b>	<b>EAN13 (13mil)</b>	55mm - 185mm
	<b>Code 39 (5mil)</b>	55mm - 100mm
	<b>PDF 417 (6.67mil)</b>	40mm - 130mm
	<b>Data Matrix (10mil)</b>	40mm - 135mm
	<b>QR Code (15mil)</b>	40mm - 160mm
<b>Symbol Contrast</b>		≥ 30% reflectance difference
<b>Scan Angle**</b>		Roll: 360°, Pitch: ±55°, Skew: ±55°
<b>Field of View</b>		Horizontal 36°; Vertical 23°
Mechanical/Electrical		
<b>Interface</b>		RS-232, USB
<b>Rated Power Consumption</b>		0.79 W
<b>Operating Voltage</b>		5VDC
<b>Current @ 5 VDC</b>	<b>Operating Current</b>	240 mA
	<b>Sleep Current</b>	<5.15uA
<b>Dimensions</b>		65(L)×45(W)×20(H)mm
<b>Weight</b>		80g
Environmental		
<b>Operating Temperature</b>		-20°C ~ +60°C
<b>Storage Temperature</b>		-40°C ~ +80°C
<b>Humidity</b>		5% ~ 95% (non-condensing)
<b>Ambient Light</b>		0 ~ 100000 lux (natural light)
Certifications		
FCC Part15 Class B, CE EMC Class B		
Accessories		
<b>Cable</b>	<b>RS-232 Cable</b>	Used to connect the LV3096R to a host device; equipped with a power connector.
	<b>USB Cable</b>	Used to connect the LV3096R to a host device.
<b>Power Adaptor</b>		Used to provide power for the EVK3000. Output: DC5V, 2A; Input: AC100~240V, 50~60Hz

\* **Test conditions:** T=23°C, Illumination=300 LUX

\*\* **Test conditions:**

Code 39, 3 Bytes; Resolution=10mil; W:N=3:1; PCS=0.8; Barcode Height=11mm; Scan Distance=120mm, T=23°C, Illumination=300 LUX