

## LV 3096

## **OEM Scan Engine**



The LV3096 OEM scan engine, armed with the LongView patented with the LongView patented image recognition system, brings about a new era of 2D barcode scan engines.

The LV3096's 2D barcode decoder chip ingeniously blends **LIMG** technology and advanced chip design & manufacturing, which significantly simplifies application design and delivers superior performance and solid reliability with low power consumption.

The LV3096 supports all mainstream 1D as well as PDF417, QR Code (M1/M2/Micro), Data Matrix and GS1-DataBar $^{TM}$ (RSS) (Limited/Stacked/Expanded versions).

This compact engine weighs only 5 grams and fits easily into even the most space-constrained equipments such as data collectors, meter readers, ticket validators and PDAs.

## 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 Specifications

LV3090 Specific		
Performance		
Image Sensor		752×480 CMOS
Processor		IOTC 2D decoder chip 48MHz
Illumination		Red LED 625±10 nm
Symbologies	2D	PDF 417, Data Matrix (ECC200,ECC000,050,080,100,140), QR Code Code 128, EAN-13, EAN-8, Code 39, UPC-A, UPC-E, Codabar, Interleaved 2 of 5,
	1D	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.
Reading Precision		≥ 5mil
Depth of Field*	EAN13 (13mil)	55mm - 185mm
	Code 39 (5mil)	55mm - 100mm
	PDF 417 (6.67mil)	40mm - 130mm
	Data Matrix (10mil)	40mm - 135mm
	QR Code (15mil)	40mm - 160mm
Symbol Contrast	a oouo ()	≥ 30% reflectance difference
Scan Angle**		Roll: 360°, Pitch: ±55°, Skew: ±55°
Field of View		Horizontal 36°; Vertical 23°
Mechanical/Electric	al	
Interface		TTL-232, USB (optional)
Rated Power Consumption		0.76 W
Operating Voltage		3.3±10% VDC
	Operating Current	230 mA
Current @ 3.3 VDC	Standby Current	4mA (USB communication not supported); 7mA (USB communication supported)
	Sleep Current	<5 uA
Dimensions		21.17(W)×14.6(D)×11.52(H)mm
Weight		5.0g
Environmental		
Operating Temperature		-20℃~ +60℃
Storage Temperature		-40℃~ +80℃
Humidity		5% ~ 95% (non-condensing)
Ambient Light		0 ~ 100000 lux (natural light)
Certifications		
FCC Part15 Class B,	CE EMC Class B	
Accessories		
EVK3000		Software development board, equipped with a trigger button, beeper and RS-232 & USB interfaces.
Cable	RS-232 Cable	Used to connect the EVK3000 to a host device; equipped with a power connector.
	USB Cable	Used to connect the EVK3000 to a host device.
Power Adaptor		Used to provide power for the EVK3000.  Output: DC5V, 2A; Input: AC100~240V, 50~60Hz

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

<sup>\*\*</sup> Test conditions:

<sup>\*</sup>Specifications are subject to change without notice.\*