

LV3000 1D/2D CMOS Scan Engine

2D Barcode Scanning Engine



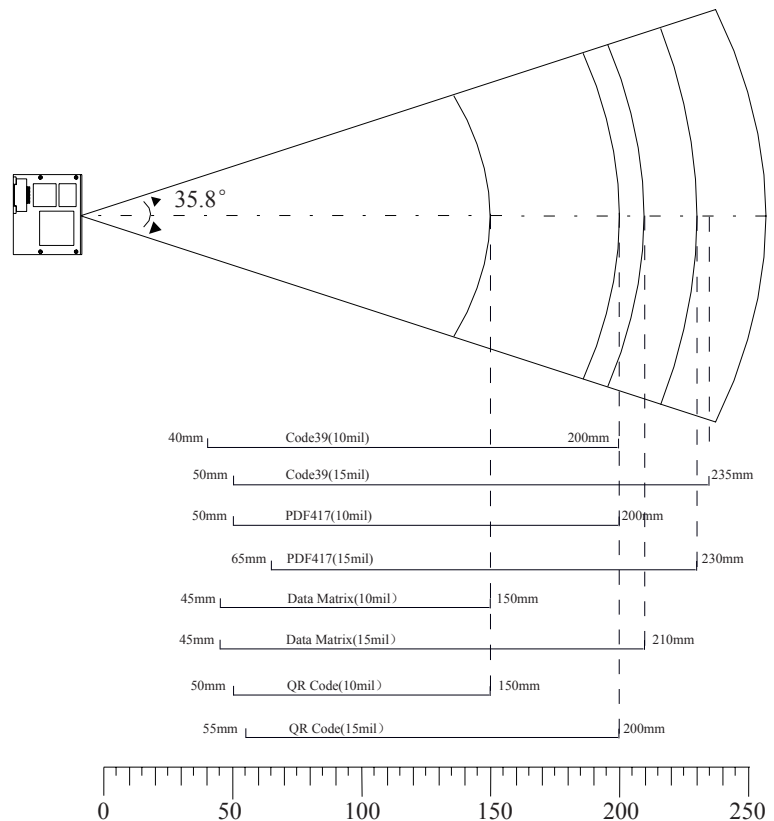
Designed for OEM applications, this high performance CMOS engine can easily be integrated into various solutions such as kiosks, ticketing machines, PDA's and many more.

Product Features

- **Ease of integration**

Compact (smaller than a paperclip) and easy to integrate design, image capture device with decoder on one board. The small form factor enables easy integration into various solutions.

Decode Zones



Dimensions (mm)

Image Capture Specifications

Image Sensor	CMOS
Resolution	752 * 480
Interface	TTL232

Barcode Scan Specifications

Symbols	2D	PDF417, QR Code (Model 1/2), DataMatrix (ECC200, ECC000, 050, 080, 100, 140), Aztec, Maxicode, etc
	1D	Code128, EAN-13, EAN-8, Code39, UPC-A, UPC-E, Codabar, Interleaved 2 of 5, ISBN/ISSN, Code 93, etc.
Precision		≥ 5mil
Depth of Scan Field		40 mm ~ 235mm
PCS		≥ 30%
Sensitivity**	Roll	360° @ 0° Pitch and 0° Skew
	Skew	±60° @ 0° Roll and 0° Pitch
	Pitch	±60° @ 0° Roll and 0° Skew

Illumination Specifications

Light Source	LED (618nm - 633nm)
Light Intensity	350 LUX (130 mm)

Electrical and Mechanical Specifications

Power Consumption(Max)	1.5W	
Voltage	DC 3.3 ±0.3V	
Current	Max	450 mA
	Working	300 mA
	Idle	60 mA
Dimensions	24.0*28.0*13.9 mm	
Weight	10g	

Environment Specifications

Operating Temperature	-5°C - +45°C
Storage Temperature	-40°C - +60°C
Humidity	5% - 95% (non-condensing)
Ambient Illumination	0 ~ 100,000 LUX

Certificates

FCC Part15 Class B, CE EMC Class B

**Test Condition:

Code39: 4 Bytes ; Resolution = 10mil; W:N = 3:1 ; PCS = 1.0 ;

Barcode Height = 12mm; Distance = 100mm; T=23°C; Illumination= 200 LUX

Accessories

Evaluation Kit

EVK3000	The Evaluation Kit for LV3000, with trigger, beep functions and USB, RS232 Interfaces.
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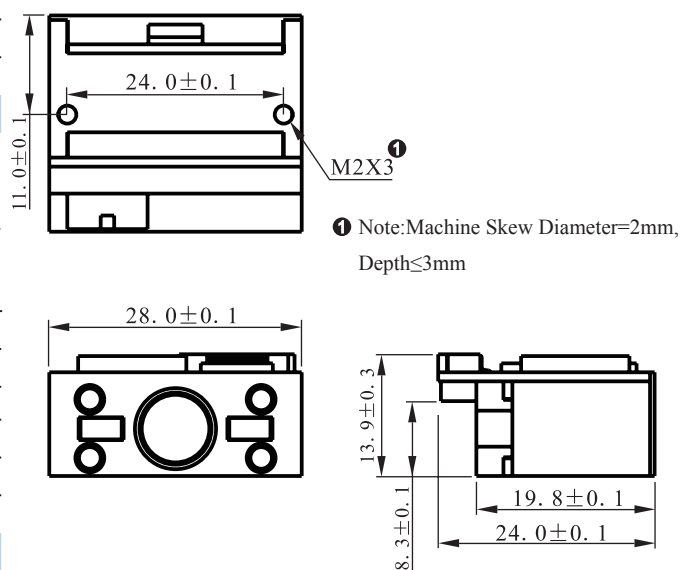
Flex Cable

RS232 Cable	This cable connect to the RS232 port of LV3000V2. With a standard female RS232 port to connect to standard male RS232 port. With a power port to accept power adapter supply.
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USB Cable	This cable connect to the USB Slave port of EVK3000 with a USB-B male port. With a standard USB Slave port to connect to standard USB Host port.
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Power

Power Adapter	The power adapter for EVK3000 by RS232 Cable. Output: DC5V, 2A; Input: AC100~240V, 50~60HZ.
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Applicable Accessories

Integration Manual / Programming Guide

A manual to explain the user the basics of the scanner, how to integrate it and how to configure it. Furthermore, it enables the user to set the scanner to the specific wishes regarding scanning modes, readable barcodes and barcode formats.

Revisions

Version	Description	Date
Pre-release version	Initial version	20100716
Version 1.0.0	Support as from LV 3000 hardware version 3.02.001 and higher.	20100903
Version 1.0.1	Change voltage form “DC3.3V” to “DC 3.3±0.3V” , Correct the interface form “RS232、USB” to “TTL232”	20110701

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