LV 3296
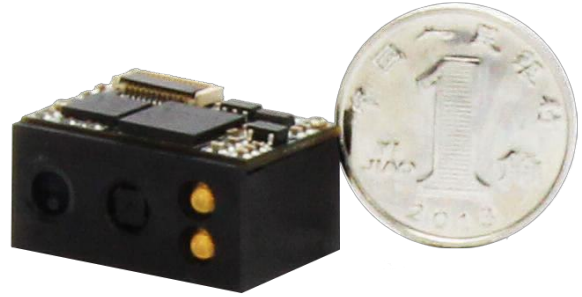
OEM Scan Engine

◆ **UIMG Technology**   ◆ **Two-In-One Design**

◆ **Miniature and Ultralight Form Factor**

◆ **Outstanding Power Efficiency**

Features

◨ **UIMG Technology**

Built with Rakinda's fifth-generation of UIMG® technology, the scan engine can decode even poor quality barcodes with ease.

◨ **Miniature and Ultralight Form Factor**

Ultra-compact, light and integrator-friendly, the LV3296 caters for miniaturization needs of OEM applications.

◨ **Multi-Interface**

The LV3296 supports USB and TTL-232 interfaces to meet diverse customer needs.

◨ **Two-In-One Design**

Seamless integration of image sensor and decoder board makes the scan engine small, lightweight and easy to fit into even the most space-constrained equipment.

◨ **Outstanding Power Efficiency**

The advanced NLDC technology incorporated in the scan engine helps reduce the power consumption and prolong the service life of the device.

Application Scenarios (as an accessory)

Self-service cabinets used in e-commerce, express delivery services and smart homes; ATMs; kiosks; queue machines; lottery machines; certificate makers.

LV3296

OEM Scan Engine

Performance	Image Sensor		640×480 CMOS
	Light Source		Red LED 625±10 nm
	Symbologies	2D	PDF417, QR Code (QR1/2, Micro), Data Matrix (ECC200, ECC000, 050, 080, 100, 140), Chinese Sensible Code
		1D	Code128, UCC/EAN-128, AIM128, EAN-8, EAN-13, ISBN/ISSN, UPC-E, UPC-A, Interleaved 2 of 5, ITF-6, ITF-4, Matrix 2 of 5, Industrial 25, Standard 25, Code 39, Codabar, Code 93, Code 11, Plessey, MSI-Plessey, GS1-DataBar™(RSS), (RSS-14, RSS-Limited, RSS-Expand)
	Resolution		≥5mil
	Typical Depth of Field	EAN-13	45mm-380mm (13mil)
		Code 39	30mm-180mm (5mil)
		Data Matrix	20mm-115mm (10mil)
		QR Code	25mm-165mm (15mil)
		PDF 417	30mm-125mm (6.67mil)
	Symbol Contrast		≥30% reflectance difference
	Scan Angle**		Roll: 360°, Pitch: ±50°, Skew: ±50°
	Field of View		Horizontal 44°, Vertical 33.2 °
Mechanical/ Electrical	Interface		TTL-232, USB (HID-KBW, COM Port Emulation)
	Operating Voltage		3.0~3.6VDC
	Current@3.3VDC	Operating	210mA
		Standby	7mA
	Dimensions		21.2(W)×14(D)×11.1(H)mm
	Weight		4g
Environmental	Operating Temperature		-20℃~+50℃ （-4°F~122°F）
	Storage Temperature		-40℃~+70℃ （-4°F~158°F）
	Humidity		5%~95% (non-condensing)
	Ambient Light		0~100000lux (natural light)
Accessories	EVK3000		Software development board for the LV3296, equipped with a trigger button, beeper and RS-232 & USB interfaces.
	Cable	USB	Used to connect the EVK3000. to a host device.
		RS-232	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

**Test conditions: Code 39; 3 Bytes; Resolution=10mil; W:N=3:1; PCS=0.8; Barcode Height=11mm; Scan Distance=120mm; T=23℃; Illumination=200lux.

Specifications are subject to change without notice.   Version: V1.0