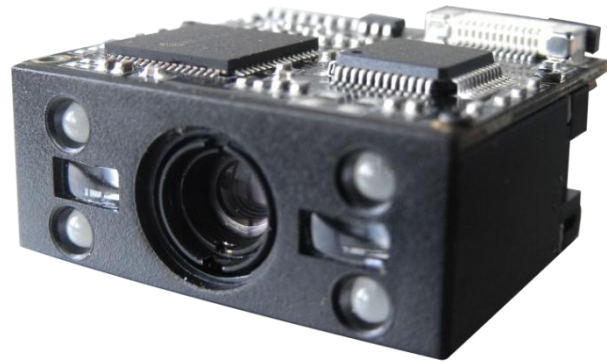


3070 Series

Embedded 2D Barcode Scan Engine



LV3070 series embedded 2D barcode scan engines, armed with the **UIMG**, a computerized image recognition system, bring about a new era of 2D barcode scan engines.

The LV3070 2D barcode decoder chip ingeniously blends **UIMG** technology and advanced chip design & manufacturing, which significantly simplifies application design and delivers superior performance and solid reliability with low power consumption.

The LV3070s support all mainstream 1D and standard 2D barcode symbologies (e.g., PDF417, QR Code M1/M2/Micro and Data Matrix) as well as GS1-DataBar™(RSS) (Limited/Stacked/Expanded versions).

This compact, lightweight engine 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 unique 2D barcode decoder chip invented 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 & Low Power Consumption:** The LV3070s can read most 1D and 2D barcodes with a power consumption only one third that of a traditional engine.
- **Compatibility:** The LV3070s are compatible with the LV3000s in interface and installation.

Specifications

| Performance | | |
|------------------------------------|--------------------------|---|
| Image Sensor | | 752x480 CMOS |
| Processor | | 2D Barcode Decoder Chip 72MHz |
| Illumination | | Red LED 625±10 nm |
| Symbologies | 2D | PDF417, Data Matrix (ECC200, ECC000, 050, 080, 100, 140), QR Code |
| | 1D | 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 |
| Reading Precision | | ≥ 5mil |
| Depth of Field | Code 39 | 35mm -205mm (10mil); |
| | EAN-13 | 50mm -260mm (13mil); |
| | PDF417 | 50mm -215mm (10mil); 60mm~285mm (15mil) |
| | Data Matrix | 50mm -160mm (10mil); 50mm~225mm (15mil) |
| | QR | 55mm -140mm (10mil); 50mm~210mm (15mil) |
| Symbol Contrast | | ≥ 25% |
| Scan Angle** | | Roll: 360°; Pitch: ±55°; Skew: ±55° |
| Field of View | | Horizontal 36°; Vertical 23° |
| Mechanical/Electrical | | |
| Interface | | TTL-232, USB (USB HID-KBW, USB COM Port Emulation) |
| Power Consumption | | < 0.9 W |
| Operating Voltage | | 3.3±10% VDC |
| Current @ 3.3 VDC | Operating Current | 270 mA |
| | Standby Current | 7 mA |
| | Low Power | 3 uA |
| Dimensions | | 28.0(W)x24.5(D)x13.9(H) mm |
| Weight | | 9.5g |
| Environmental | | |
| Operating Temperature | | -20℃ to +55℃ |
| Storage Temperature | | -40℃ to +80℃ |
| Humidity | | 5% to 95% (non-condensing) |
| Ambient Light | | 0 ~ 100000 lux (natural light) |
| Certifications | | |
| FCC Part15 Class B, CE EMC Class B | | |
| Accessories | | |
| EVK3000 | | Software development board for the LV3070 , equipped with a trigger button, beeper and RS-232 & USB interfaces. |
| Cables | 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. |

**Test conditions:

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

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Specifications are subject to change without notice. V1.0.0