



Z-5160

Advanced Middle-Range CCD Scan Module



The middle-range scan module is highly customizable and simple to use. With an easy-to-integrate design and an outstanding scanning performance, this middle-range CCD scan module is especially made for embedded scanning solution. Its powerful linear CCD array enables 330 scans per second with a minimum resolution of 4 mil for fast scans. The module has a specially designed CCD scan engine with light beam bright and clear as laser beam that gives user best visual indication and its powerful high resolution CCD acts in remarkable performance.

- Proprietary **Ultrascan** decoding technology
- Compact industrial housing design
- Flexible communications
- Analog image capture technology
- Captures barcodes on mobile phone, tablet, or computer screens

1. Cubic design with aluminum die-casting housing
2. Back mounting holes



- Product availability and specifications depend on territory market strategy; all are subjects to change without prior notice.
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OPERATIONAL

Light Source	617 nm visible LED	
Optical System	Linear CCD array	
Microprocessor	32-bit	
Depth of Field	4 mil: 20 – 80 mm	5 mil: 15 – 115 mm
	7.5 mil: 10 – 160 mm	10 mil: 10 – 220 mm
	13 mil: 5 – 280 mm	20 mil: 20 – 360 mm
<i>(Note: DOF may vary depending on environment condition and barcode quality.)</i>		
Scan Rate	330 scans per second	
Minimum Bar Width	0.1 mm (0.07 mm actually); (Code 39, PCS=90%)	
Print Contrast	30% @ UPC/EAN 100%	
Indicator	Two-color LED (green & red)	
Beeper Operation	Programmable tone & beep time	
System Interface	Keyboard, RS-232, HID USB, USB Virtual COM, OPOS, JPOS	

PHYSICAL

Dimension	80.0 × 65.0 × 30.3 mm
Weight	121.5 g (device only)
Cable	Standard 2M straight

POWER

Input Voltage	5 VDC ±10%
Operating Current	120 mA

REGULATORY

EMC	CE & FCC DOC compliant, VCCI, BSMI
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ENVIRONMENTAL

Operating Temperature	0°C – 50°C (32°F – 122°F)
Storage Temperature	-20°C – 60°C (-4°F – 140°F)
Humidity	20% – 95% RH (non-condensing)
Light Level	0 – 100,000 Lux

DECODING CAPABILITY

1D Barcode	UPC/EAN/JAN, UPC-A & UPC-E, EAN-8 & EAN-13, JAN-8 & JAN-13, ISBN/ISSN, Code 39, Codabar, Code 128 & EAN 128, Code 93, ITF 2 of 5, IATA Code, MSI, China Postal Code, Code 32, Industrial 2 of 5, Standard 2 of 5, JAP, Code 11, GS1 DataBar, GS1 DataBar Limited, GS1 DataBar Expanded, Telepen
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