



A-50M

Omnidirectional Laser Scan Module



The A-50M laser scan module delivers outstanding scanning performance in an easy-to-integrate unit for any equipment of a wide variety of applications. With its omnidirectional laser scan engine, the A-50M performs 5 directions of scan field with a total of 20 lines. Along with 650 nm visible laser diode and 20 cm long-range scan field, the A-50M drives up to 1,400 scans per second, making it one of the most powerful scanners in its class. The cubic yet small design saves space and reduces overall equipment size. This, along with its multiple interfaces, means hassle-free integration with new equipment.

- Superior scanning performance
- Intelligent and cubic design for easy integration
- Flexible communications
- Proprietary Z-SCAN⁺ technology

1. Intelligent and cubic design
2. Direction-rotatable cable & back mounting holes
3. Embedded in Z-7010 Series



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

Light Source	650 nm visible laser diode (VLD)	
Depth of Field	5 mil: 10 – 70 mm	7.5 mil: 0 – 140 mm
	10 mil: 0 – 180 mm	13 mil: 0 – 200 mm
	20 mil: 0 – 280 mm (Note: DOF may vary depending on environment condition and barcode quality.)	
Scan Line	20	
Scan Pattern	5 directions of scan field	
Scan Rate	1,400 scans per second	
Minimum Bar Width	5 mil @ PCS=90%	
Print Contrast	30% @ UPC/EAN 100%	
Indicator	Two-color LED (blue & red)	
Beeper Operation	Programmable tone & beep time	
System Interface	IBM 46xx, keyboard, OEM (IBM) USB, RS-232, HID USB, USB Virtual COM	

PHYSICAL

Dimension	72.0 × 64.0 × 68.0 mm
Weight	140 g (device only)
Cable	Standard 2M straight

POWER

Input Voltage	5 VDC ±10%
Power Consumption	1.0 watts
Operating Current	200 mA

REGULATORY

Laser Class	CDRH Class IIa; IEC 60825-1: Class 2
EMC	CE & FCC DOC compliant, VCCI, BSMI

ENVIRONMENTAL

Operating Temperature	0°C – 40°C (32°F – 104°F)
Storage Temperature	-20°C – 60°C (-4°F – 140°F)
Humidity	5% – 95% RH (non-condensing)
Light Level	Max. 4,500 Lux (fluorescence)
Drop Durability	Designed to withstand 1M drops

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
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