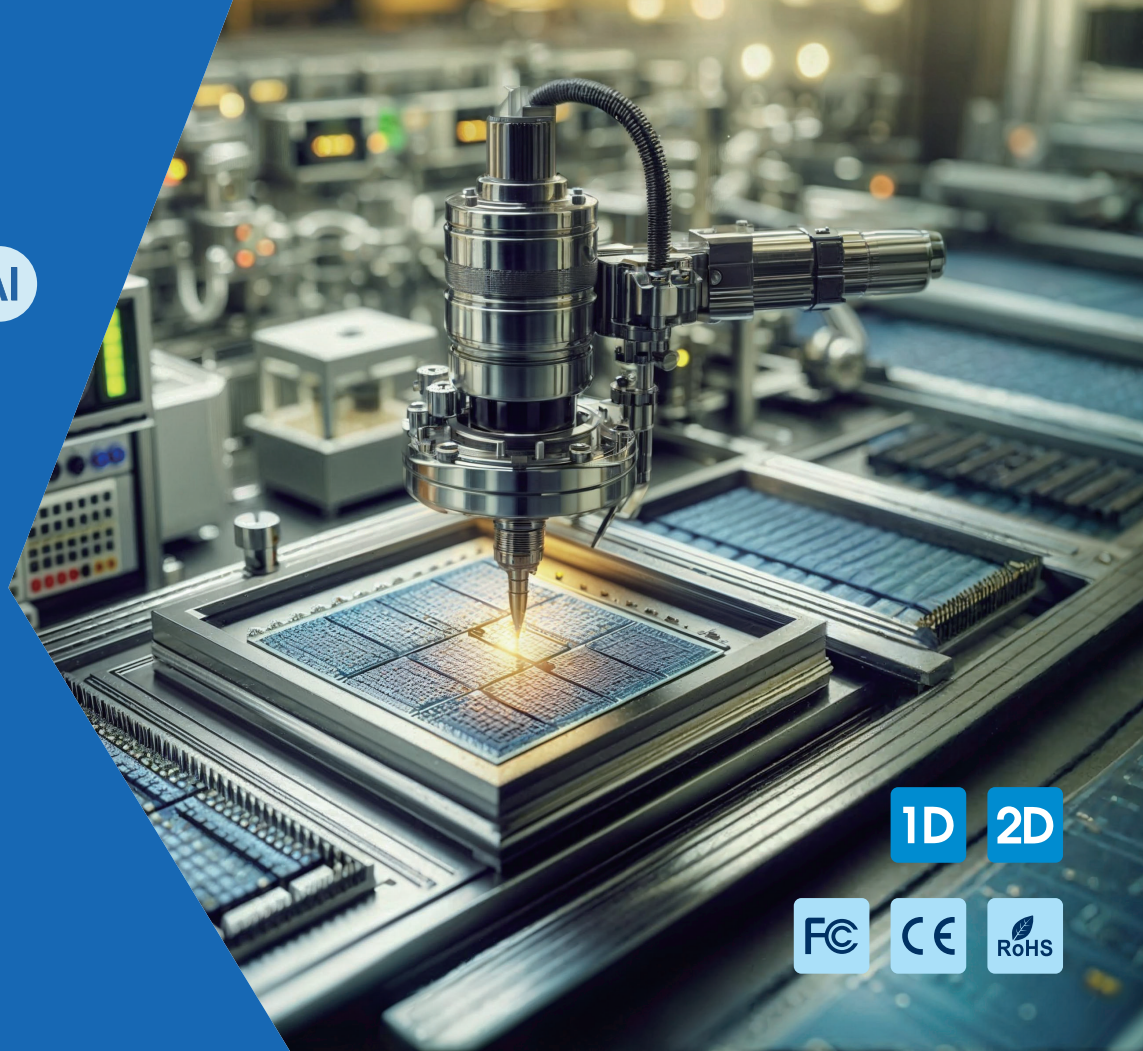


MINDEO

AI



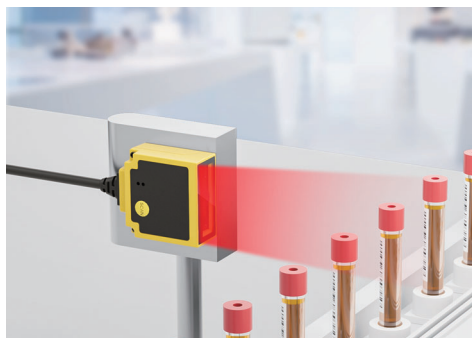
1D

2D

FC

CE

RoHS

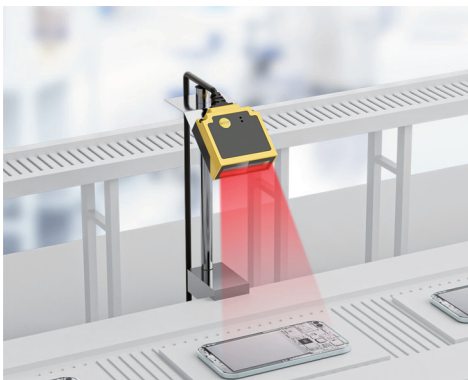


ES4690i

Embedded Image Scanner with Built-in AI Chip

Features

- 1 Use self-developed AI Engine, fully upgrade scanning performance
- 2 Best in motion tolerance up to 5 m/s
- 3 Red and white auxiliary lighting easily cope with a variety of complex barcode reading scenes
- 4 Compact design and plug-and-play interfaces allow easy integration into different host devices
- 5 Support external and serial trigger modes



ES4690i Specifications

Mechanical & Electrical Characteristics			
Dimensions (L×W×H)	43.5 mm × 41.0 mm × 19.0 mm		
Weight	89 g (without cable)		
Case Material	Zinc Alloy		
Cable	Straight 2.0 m		
Interface	RS-232 (3.3 V TTL-level), USB Keyboard, USB Virtual COM, Level		
Interfaces	Beeper		
Scan Window Material	Tempered glass		
Operating Mode	Handheld, Auto-detect, Command		
Programming Method	Manual (reading special barcode)		
Firmware Upgrade	Online		
Electrical			
Input Voltage	5.0 ± 0.25 VDC		
Current	Scanning: 400 mA, Standby: 160 mA		
Performance Characteristics			
Scan Pattern	Image		
Image Size	1280 × 1024 pixels		
Light Source	Illumination: 5700 K, white LED		
	Aiming: 525 nm peak wavelength, green LED		
Scanner Field of View	Horizontal: 40°, Vertical: 34°		
Motion Tolerance	5 m/s (197 in/s)		
Scanning Angles	± 70°, ± 72°, 360° (skew, pitch, roll)		
Print Contrast	20% minimum reflective difference		
Decoding Capability	All common 1D/2D barcodes		
Minimum Resolution	1D: 3 mil		
Decoding Depth		Standard range series (SR)	High desity series (HD)
	3 mil Code 39 (3 chars)	80 mm – 110 mm	45 mm - 110 mm
	5 mil Code 128 (12 chars)	60 mm – 220 mm	30 mm – 150 mm
	10 mil Code 39 (3 chars)	30 mm - 370 mm	20 mm - 250 mm
	13 mil UPC (6 chars)	30 mm - 520 mm	30 mm - 320 mm
	20 mil Code 39 (1 char)	60 mm - 630 mm	60 mm - 410 mm
	20 mil QR (20 chars)	25 mm - 430 mm	25 mm - 300 mm
Environmental Characteristics			
Temperature	Operating: -20°C to 50°C (-4°F to 122°F); Storage: -20°C to 70°C (-4°F to 158°F)		
Humidity	5% to 95% (non-condensing)		
Mechanical Vibration	IEC60068-2-6: Un-powered scanner withstands a random vibration along each of the X, Y and Z axes for a period of one hour per axis, define as follows:		
	20 Hz to 80 Hz	Ramp up to 0.04 G2/Hz at the rate of 3 dB/oct	
	80 Hz to 350 Hz	0.04 G2/Hz	
	350 Hz to 2000 Hz	Ramp down at the rate of 3 dB/oct	
Mechanical Shock	IEC60068-2-27: Shock pulse: 0.5 ms, Maximal acceleration: 1500 G, Shock direction & time: ± X-axis, ± Y-axis, ± Z-axis, 3 times for each direction, total of 18 times.		
Safety	EMC: EN55032, EN55035 Photobiological Safety: EN62471:2008		
	ESD Protection: Contact discharge: ± 4 KV, air discharge: ± 8 KV		
	Sealing: IP52 Illumination: 0~100,000 lux RF Immunity: IEC61000-4-3, 10 V/m		
	Drop Resistance: Withstands multiple 1.5 m (5 ft.) drops to concrete		

[Notice]: Specifications are subject to change without notice.

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ES4690i V1.4
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