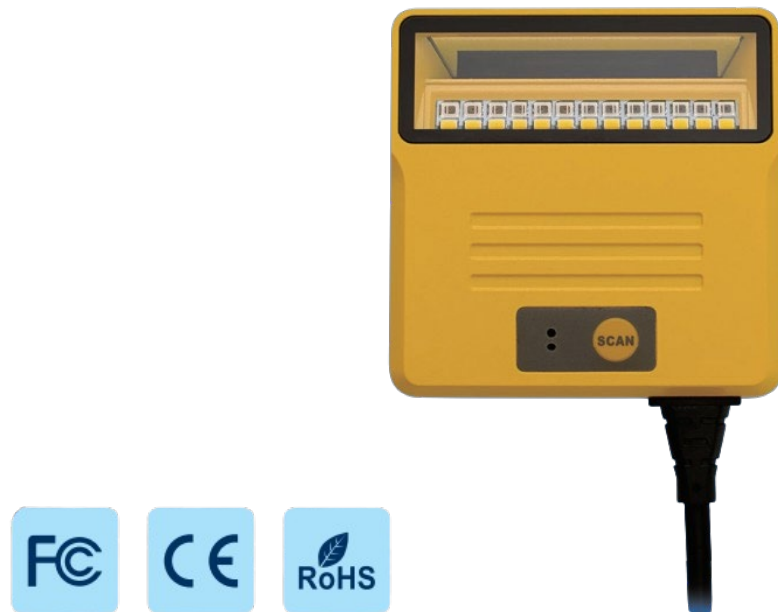


# ES4729i

## Embedded Image Scanner with Built-in AI Chip



### Features

- Designed for the IVD industry
- Use self-developed AI Engine, fully upgrade scanning performance
- Red and white auxiliary lighting easily cope with a variety of complex barcode reading scenes
- Compact design and plug-and-play interfaces allow easy integration into different host devices
- It also has visual functions such as the detection of whether the adapter cap is present, and the determination of the height and type of the test tube

## ES4729i Specifications

<b>Mechanical &amp; Electrical Characteristics</b>	
Dimensions (L × W × H)	78 mm × 77.5 mm 23.6 mm
Weight	221 g (Without Cable)
Case Material	Zinc Alloy
Scan Window Material	Tempered glass
Cable	Straight 2.0 m
Interfaces	RS-232 (3.3 V TTL-level), USB Keyboard, USB Virtual COM
Indicator	Beeper
Operating Mode	Handheld, Auto-detect, Command, Level
Programming Method	Manual (reading special barcode)
Firmware Upgrade	Online
<b>Electrical</b>	
Input Voltage	5.0 ± 0.25 VDC
Current	Scanning: 300 mA, Standby: 150 mA
<b>Performance Characteristics</b>	
Scan Pattern	Image
Image size	1408 × 1024 pixels
Light Source	White LED (5700 k), Red LED 525 nm peak wavelength, green LED
Field of View	Horizontal: 64°, Vertical: 7°
Print Contrast	20% minimum reflective difference
Decoding Capability	UPC-A, UPC-E, UPC-E1, EAN-13, EAN-8, ISBN(Bookland EAN), ISSN, Code 39, Code39 full ASCII, Code 32, Trioptic Code 39, Interleaved 2 of 5, Codabar (NW7), Code 128 ISBT 128, Code93, UCC/EAN 128 (GS1-128)
Minimum Resolution	1D: 3mill
Decoding depth	3mil Code 39 (3 Chars)      20 – 65 mm
	5mil Code 128 (12 Chars)      5– 70 mm
	10mil Code 39 (3 Chars)      0– 110 mm
	20mil Code (3 Chars)      0– 170 mm

Environmental Characteristics	
Temperature	Operating: -20°C to 50°C ( -4°F to 122° F); Storage: -40°C to 70°C ( -40°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, and Y axes for a period of one hour per axis, define as follows: 20 Hz to 80 Hz Ramp up to 0.04 G <sup>2</sup> /Hz at the rate of 3 dB/oct 80 Hz to 350 Hz 0.04 G <sup>2</sup> /Hz 350Hz to 2000Hz 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	Photobiological Safety: EN62471:2008 EMC: EN55032, EN55035 ESD Protection: contact discharge: ± 4 KV, air discharge: ± 8KV Sealing: IP52 RF Immunity: IEC61000-4-3,10 V/m Illumination: 0-100,000 lux Drop Resistance: Withstands multiple 1.0 m (3.2 ft) drop to concrete