

ES4790i

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
- Support external and serial trigger modes

ES4790i Specifications

Mechanical & Electrical Characteristics

Dimensions (L x W x H)	78 mm x 77.5 mm 19.6 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

Electrical

Input Voltage	5.0 ± 0.25 VDC
Current	Scanning: 250 mA, Standby: 130 mA

Performance Characteristics

Scan Pattern	Image															
Image size	1280 x 1024 pixels															
Light Source	White LED (5700 K), Red LED 525 nm peak wavelength, green LED															
Scanner Field of view	WA: Horizontal:64°, Vertical: 7° SR: Horizontal: 40°, 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, Code 39 full ASCII, Code32, Trioptic Code 39, Interleaved 2 of 5, Codaber (NW7), Code 128, ISBT 128, Code 93, UCC/EAN 128(GSI-128)															
Minimum Resolution	1D: 3mill															
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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	IEC600682-6: Un-powered scanner withstands a random vibration along each of the X, 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 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 1.5m (5ft) drop to concrete