

ES4610+

Embedded Imager Scanner



- ✓ Compact design and plug-and-play interfaces allow easy integration into different host devices
- ✓ Read all common 1D/2D barcodes from paper labels and electronic screens
- ✓ Megapixel image delivers better performance in decoding hard-to-read barcodes
- ✓ Advanced image induction technology ensures rapid induction of barcodes, even through a transparent lens in front of the scanning window
- ✓ Support external and serial trigger modes
- ✓ Soft white auxiliary lighting and green aiming cursor deliver comfortable and convenient scanning experience



ES4610+**Mechanical**

Dimensions	43.5mm × 41.0mm × 19.0mm (H x W x D)
Weight	70g (without cable)
Indicator	Beeper
Interface	USB, USB Virtual COM, RS232
Trigger mode	Hand-held, Auto-detection, Command

Performance

Image size	640 x 480 pixels
Scanning angles	±58°, ±65°, 360° (Skew, Pitch, Roll)
Imager field of view	Horizontal: 48°, Vertical: 38°
Print contrast	20% minimum reflective difference
Minimum element width	1D (Code 128): 4 mil
Decode capability	All common 1D/2D paper barcodes and mobile barcodes

Electrical

Input Voltage	5.0 ± 0.25 VDC
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Mechanical Vibration & Shock

Vibration	IEC60067-2-6: 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 G ² /Hz at the rate of 3 dB/oct 80 Hz to 350 Hz 0.04 G ² /Hz 350 Hz to 2000 Hz Ramp down at the rate of 3 dB/oct
Shock	IEC60067-2-27; Shock pulse: 0.5ms, Maximal acceleration: 1500G, Shock direction & time: ±X-axis, ±Y-axis, ±Z-axis, 3 times for each direction, total of 18 times

Environmental & Safety

Temperature	-10°C to 45°C (operating); -35°C to 70°C (storage)
Humidity	5% to 95% (non-condensing)
Safety	Photo-biological Safety: EN62471:2008 EMC: EN55022 ESD Protection: EN55024 (IEC61000-4-2, contact discharge: ± 2KV, air discharge: ± 8 KV IEC61000-4-4, IEC61000-4-5, IEC61000-4-6, IEC61000-4-11) RF Immunity: IEC61000-4-3, 10 V/m Artificial Light Immunity: 100,000 Lux

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

Decoding Depth*	Resolution	Distance (mm)
	4 mil Code 128 (9 chars)	15 - 40mm
	10 mil Code 39 (3 chars)	10 - 150mm
	13 mil UPC (6 chars)	5 - 160mm
	20 mil Code 39 (1 char)	25 - 340mm
	6.7 mil PDF417 (20 chars)	12 - 70mm
	10 mil QR (20 chars)	5 - 85mm
	20 mil QR (20 chars)	10 - 200mm
* Performance vary by bar code printing quality and environmental conditions.		