

# ES4200

## Embedded Laser Scanner



- ✓ Small size, fits in the small spaces, flexible and easy to integrate in kiosk or machine
- ✓ Support RS232, USB, USB virtual COM interface
- ✓ Decode all major 1D barcode symbologies including GS1 DataBar
- ✓ Infra-red auto-induction sensor
- ✓ Easy firmware upgrade



# ES4200

Dimensions	45.66mm × 40.80mm × 20.55mm (H x W x D)
Weight	29g (without cable)
Indicator	Beeper
Interface	USB, USB Virtual COM, RS232 (3.3V TTL-level)
Case material	ABS
Trigger mode	Hand-held, Auto-detection, Command
Firmware upgrade	Online
Programming method	Manual

Laser	650nm laser diode
Decode rate	200times/second
Decode capability	1D: UPC-A / E, UPC-E1, EAN-13, EAN-8, ISBN/ISSN, Code 39, Code 39 full ASCII, Code 32, Trioptic Code 39, Interleaved 2 of 5, Industrial 2 of 5, Matrix 2 of 5, Code 128, UCC/EAN 128, ISBT 128, Code 93, Code 11 (USD-8), MSI/Plessey, UK/Plessey, Codabar (NW7), China Post, China Finance, GS1 DataBar (formerly RSS) variants

Input Voltage	5 ± 0.25 VDC
Current	Typical: 90.04 mA, Maximum: 148mA

## Environmental & Safety

Operating Temperature	0°C to 55°C / 32°F to 120°F (operating); -40°C to 60°C / -40°F to 140°F (storage)
Humidity	5% to 95% (non-condensing)
Safety	Laser: EN60825-1, Class 1   EMC: EN55022, EN55024 Electrical safety: EN60950-1, Protection class: IP50

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

Decoding Depth*	(High Density-HD)		(Long Range-LR)	
	3 mil	5 - 50mm	5 mil	40 - 110mm
10 mil	10 - 85mm	10 mil	10 - 280mm	
13 mil	10 - 150mm	13 mil	15 - 315mm	
16 mil	25 - 165mm	16 mil	25 - 385mm	
35 mil	145 - 295mm	35 mil	145 - 630mm	

\* Performance vary by bar code printing quality and environmental conditions.

