ES910 - ES920 - ES922

Designed for Embedded Automatic Barcode Reading





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Designed for Embedded Automatic Barcode Reading

The ES series are metal alloy cased barcode readers to be embedded in Kiosk, installed at production line or to be used as a loosen device at different applications. The ES series is available from Linear laser based, 2D imager and 2D imager higher performance version to meet different requirements.



ES910

Input voltage Working power Standby power

Laser

Image size Image field of view Scanning angles Decoding rate

Print contrast

Decode capability

Indicator

Supporting interface
Operating mode
Dimensions H x W x D
Weight

Case material
Working temperature
Storing temperature

Humidity
Programming method
Program upgrade
Minimum resolution

Depth of field

5 VDC +/- 0.25V

90.04mA (operating); 148mA (Peak)

650nm laser diode

N/A N/A

± 60°, ± 65°, 42° (Skew, Pitch, Roll)

200 scans/sec

20% minimum reflective difference

All major 1D symbologies including GS1 Databar

Beeper

RS232 (3.3V TTL-level), USB, USB virtual COM port

Manual trigger or Auto-detection 45.66mm x 40.80mm x 20.55mm

29am

Zinc alloy; ABS (optional)

-20°C to 55°C -40°C to 70°C

5% to 95% (non-condensing)

Manual (with setup barcode sheet)

Online firmware update

Long-range series
5 mil: 40 - 110mm
10 mil: 10 - 280mm
13 mil: 15 to 315mm
16 mil: 25 - 385mm
35 mil: 145 - 630mm

High-Density series
3 mil: 10 - 85mm
13 mil: 10 - 150mm
16 mil: 25 - 165mm
35 mil: 145 - 295mm

IP sealing

IP51

SafetyLaser safety: EN60825-1, Class 1
EMC: EN55022, EN55024

Electrical safety: EN60950-1

Mechnical vibration

N/A

Mechanical shock

N/A

5 VDC +/- 0.25V

White LED: 345mA; Red LED: 202mA White LED: 905mA; Red LED: 92mA

N/A

ES920

640 x 480 pixels

Horizontal: 48°, Vertical: 38°,

+/- 58°, +/- 65°, 360° (Skew, Pitch, Roll)

30 frames/Sec

20% minimum reflective difference All major 1D and 2D symbologies

Beeper

RS232 (3.3V TTL-level), USB, USB virtual COM port

Manual trigger, Auto-detection, Command

45.5mm x 41.0mm x 19.0mm

70gm (without cable)

Zinc alloy

-10°C to 45°C

-35°C to 70°C

5% to 95% (non-condensing)

Manual (with setup barcode sheet)

Online firmware update

1D

4 mil at Code 128, 1mil=0.0254mm 4 mil Code 128 (9 chars): 15 - 40mm 10 mil Code 128 (9 chars): 10 - 150mm 13 mil Code 39 (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

IP52

Photobiological Safety: EN62471:2008 EMC: EN55022

ESD Protection: EN55024 (IEC61000-4-2, contact discharge: ±2 KV, 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

IEC60064-2-6 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

IEC60064-2-27 Shock pulse: 0.5 ms, Maximal acceleration: 1500 G, Shock direction & time: $\pm X$ -axis, $\pm Y$ axis, $\pm Z$ -axis, 3 times for each direction, total of 18 times.



Specifications

3.4 - 5.5 VDC White LED: 435mA White LED: 105mA N/A

1280 x 800 pixels

Horizontal: 45°, Vertical: 28°

± 70°, ± 72°, 360° (Skew, Pitch, Roll)

60 frames/sec

20% minimum reflective difference

All major 1D and 2D symbologies

Beeper

RS232 (3.3V TTL-level), USB, USB virtual COM port

Manual trigger, Auto-detection, Command

43.5mm x 41.0mm x 19.0mm

68gm (without cable)

Zinc alloy

-20°C to 50°C

-20°C to 70°C

5% to 95% (non-condensing)

Manual (with setup barcode sheet)

Online firmware update

High density (HD) - Standard range (SR)

3 mil Code 39 (3 chars): 55 - 83mm (HD)

4 mil Code 128 (9 chars): 45 - 142 mm (HD) 90 - 160mm (SR) 13 mil UPC (6 chars): 40 - 380mm (HD), 40 - 550mm (SR)

5 mil QR (40 chars): 48 - 100mm (HD)

6.7 mil PDF417 (20 chars): 30 - 160mm (HD), 70 - 160mm (SR) 10 mil QR (20 chars): 17 - 200mm (HD), 25 - 190mm (SR) 20 mil QR (20 chars): 20 - 320mm (HD), 20 - 380mm (SR)

IP52

Photobiological Safety: EN62471:2008 EMC: EN55022 ESD Protection: EN55024 (IEC61000-4-2, contact discharge: ±2 KV, 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

IEC60064-2-6: 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

IEC60064-2-27: Shock pulse: 0.5 ms, Maximal acceleration: 1500 G, Shock direction & time: \pm X-axis, \pm Yaxis, \pm Z-axis, 3 times for each direction, total of 18 times.



Embedded scanners





- 1D
- · Compact design.
- Easy integration with different host devices.
- IP51





- 1D/2D
- Compact design and easy integration.
- Two options for auxiliary light: white and red.
- IP52





- 1D/2D
- With high image size (1280*800)
- Industry level, IP52
- It has four versions: SR (standard range), HD (high density), WA (wide angle), ER (enhanced range).

ES910 - ES920 - ES922

These three embedded scanners are designed for different application/usage/ reason to make the best choice:



Scanning barcodes only



Customers card for binding benefits



To check payment & exchange a product



For medical purposes scan patient records



To aquire the pattern & print it in the clothes





Scanning Bar and QR codes



At the parking garage



Reading admission cards to give access



To controll admission armwristbands



Self-service terminals





Scanning all types of codes



Scan packages on the assembly line



To scan coupons on mobile devices



Personal registration & allowes access



Security key card & unlock the door

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^{*} Warranty: Unitech reserves the right to call back the defect units at her discrete sole decision if Unitech may find it necessarily. Upon the calling, the returning shipping cost will be borne by Unitech except tax and duty if any. Unitech has full decision to stop the warranty coverage before expiration if the defect is found due to abused, sabotage, and/or caused by the acts of God Specifications subject to change without notice.