LSR110
2D Barcode Reader

Rugged, high-performance desktop 2D barcode reader for smartphones, tablets and paper

Description

The compact LSR110 is designed to read 2D barcode images, including QR codes, from smartphones and tablets, and works equally well with printed paper documents. It can read all popular linear, PDF417 and 2D symbologies.

The advanced recognition barcode imager is omnidirectional and has near-zero latency. It captures barcodes in less than one second of presentation in any orientation. Furthermore, the device is programmable with 2-way communication to intelligently interact with data capture and processing software and provide operator feedback.

The responsive easy-to-use desktop device is intuitive and designed to be used by the untrained general public. Additional user-friendly features include bright green LED visual indicators and a user-programmable audio beep to confirm successful data capture.

Its rugged construction with no moving parts, enable it to withstand years of public access use.

The LSR110 can be configured to connect directly to a workstation. It can also be configured with data format settings. Serial RS232 and USB (serial or keyboard) interface versions are available.

LSR110 fixed position omnidirectional barcode reader

Features

- Fast, intuitive, imager with fixed focal distance
- Reads on face-down presentation of a mobile device
- Reads 2D, PDF417 and linear symbologies
- Can operate as conventional scanner of printed barcodes
- Single detachable cable connection to host PC
- RS232 and USB (serial or keyboard) interface options
- FLASH upgradeable software
- Visible green light & audible good read confirmation
- Options for rugged fixed position kiosk installation
- Rugged, durable UK design and manufacture
- Protective top rubber support casing

Applications

- Ticketing & retail vouchers
- Automatic gate & turnstile entry
- Boarding passes
- Loyalty programmes
- Pre-ordered and repeat orders at quick-service restaurants
- Self-service kiosk interactions, such as hotel check in
- Payment via virtual storecard and storage of eReceipts
- Real-time customised marketnig promotions

The LSR110 reading a 2D barcode from a smartphone

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Barcode Symbologies

2D barcodes, such as QR codes, offer the opportunity to incorporate significantly more information than a single line 1D barcode.

2D barcodes also offer Error Correction options that allow the barcode to be read even if part of it has been destroyed or marked. Pixel based 2D barcodes, such as QR or Aztec codes, are ideal for downloading to a mobile phone display.

QR Code

The QR code can contain up to 4,296 alphanumeric characters, (0–9, A–Z [uppercase only], space, $, %, *, +, -, ., /, :)

PDF417
2D stacked barcode

The PDF417 stacked 2D barcode can contain up to 1800 alphanumeric characters.

Common Linear barcodes

EAN / UPC

Interleaved 2 of 5

Industrial 2 of 5

IATA 2 of 5

Code 39

Code 128

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Specifications

Reads following symbologies

Linear: EAN. UPC, Code 2 of 5, Interleaved 2 of 5, IATA 2 of 5, Code 39, Code 128

2D: IATA resolution 792, PDF417, Aztec, DataMatrix and QR codes

Interface options: RS232 and USB (serial and keyboard)

Performance: Will read in full sunlight, and also read 2D barcodes from cell phone displays

MTBF: 85,000 hours

Mechanical/Electrical

Dimensions: Length: 12 cm

Height: 7 cm

Width: 9 cm

Weight: 120g

Power: 4.5 to 5.0 VDC

Current (Typical): 310mA

Colour: Dark grey

Environmental

Temperature: Operating 0°C to +50°C

Storage: 0°C to +60°C

Humidity: 0 to 95%, non-condensing

Approvals: FCC Class B, CE EMC Class B, CE Low Voltage Directive, IEC60825-1 LED Safety: Class 1

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