

LSR120 Compact 2-D Bar Code Imager

ACCESS
KEYBOARDS

Access' LSR120 is a high performance, fixed position bar code capture device designed for check-in and gate applications. It can be configured to connect directly to a workstation or through an Access Keyboards ATB42X integrated keyboard. Serial RS232, PS/2 keyboard and USB interface versions are available.

The LSR120 has been optimised for airport bar code document scanning applications. A high performance 2D omni-directional bar code imager captures bar codes within a second of presentation. A bright green indicator and sounder confirm a good read. The LSR120 may also be configured with data format settings and to also respond to host messages.

Features

- *Fast, omni-directional imager with fixed focal distance*
- *Reads on presentation of a document face up*
- *Reads IATA recommended 2D PDF417 and linear symbologies*
- *Large document throat allows home printed A4 documents to be readily scanned*
- *Single cable connection to ATB42x series keyboard or host PC*
- *RS232, USB and PS/2 interface options*
- *FLASH upgradeable software*
- *Visible green light & audible good read indication*
- *Various cable routing options*
- *Fixed position installation, offering greater security against theft*



**LSR120 Fixed position omni-directional
bar code reader**

Bar Code Symbologies

For many years, the Airport industry has standardized on several linear bar codes. It is now becoming increasingly common for PDF417 2D stacked and 2D symbology codes to be used where more information is required to be read from a bar code. PDF417 has Error Correction options that allow the bar code to be read even if part of it has been destroyed or marked. 2D Aztec bar codes can be read from cell phone displays.

Linear bar codes used in airports

Interleaved 2 of 5
Industrial 2 of 5
IATA 2 of 5
Code 39
Code 128



PDF417 - 2D stacked bar code

The sample PDF417 bar code below contains our address



Access Keyboards Address

Aztec - 2D bar code

The Aztec bar code below contains sample boarding pass details



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LSR120 Connection Options

- Can be pre-configured to connect to Access ATB42x series keyboards and OCR32x/34x standalone readers. No need to add extra serial ports to PC system units
- Access ATB422/423 series USB keyboards can power the imager directly, without the need for an external power supply
- Also available with configurations for direct connection to Common Use and dedicated airline workstations



ATB42x series keyboard



OCR 32x series
standalone OCR reader

LSR120 Description

Access Keyboards LSR120 configured bar code imager is designed to operate in demanding environments like those found in airports. Ruggedly constructed with no moving parts the devices are built to withstand years of use.

Purpose designed to scan documents on the table top, the LSR120 imager reads all popular linear, PDF417 and 2D symbologies currently in use in airports. The wide depth of field and bright aiming line allows the operator to read the bar code intuitively and without hesitation. All the operator has to do is present the document under the imager's wide field of view and the bar code is captured. The omni-directional imaging decoder within the imager can read bar codes presented in any orientation. Very fast and consistent read performance is possible.

Capture and decode time is extremely fast. When connected to the high-speed decoded imager port of the ATB42x series keyboard or OCR standalone readers, there is almost no latency before the data reaches the workstation.

Reading Document Types



ATB boarding pass



'Home' printed A4 boarding pass



2D Aztec bar code on PDA and cell
phone displays

Specifications

Configured to read the following Symbologies

Linear: Code 2 of 5, Interleaved 2 of 5, IATA 2 of 5, Code 39, Code 128

2 Dimensional: PDF417, Aztec, DataMatrix and QR

Interface options: RS232, PS/2 keyboard wedge and USB

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

MTBF: 85,000 hours

Mechanical/Electrical

Dimensions

Length: 18 cm

Height: 10 cm

Width: 10 cm

Weight: 174g

Power Requirements: 4.5 to 5 VDC

Current Draw (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

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



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