



LZR®-VISIOSCAN AC

2D object detection laser scanner



APPLICATIONS



TECHNOLOGY

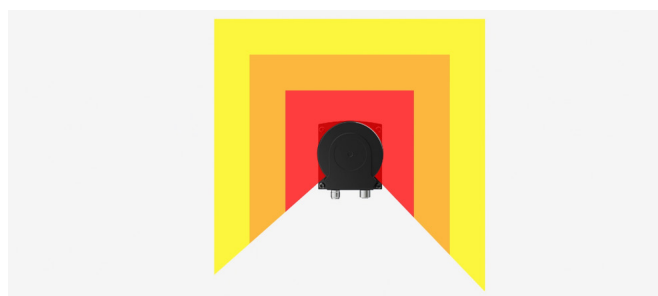
Laser

The **LZR®-VISIOSCAN AC** is a compact and rugged 2D laser scanner engineered for reliable object detection, area monitoring, and anti-collision of AGV/AMRs and automatic forklifts. Built to perform in challenging industrial settings, it uses the LASER time-of-flight technology to identify the presence of objects or people within the user defined field and triggers instant responses through its configurable I/O outputs.



Outstanding Detection Capability

LZR®-VISIOSCAN AC delivers **reliable low-reflectivity detection** (1.8% @ 7m, 10% @ 15m), while its intelligent object filter **minimizes false triggers** by ignoring irrelevant targets, ensuring consistent performance in complex industrial environments.



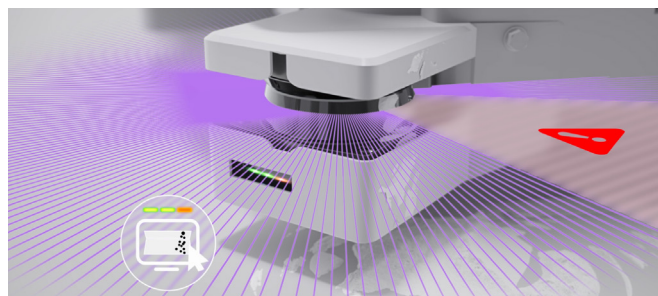
16 x 3 Flexible Fields

LZR®-VISIOSCAN AC features **16 configurable field triplets** with outputs that can be assigned to **configurable I/O interfaces**, enabling flexible detection setups.



Rugged Industrial Design

The LZR®-VISIOSCAN AC features a robust design with an operating temperature range of **-30 °C to +60 °C**, shock resistance up to **15g**, and an **IP67** protection rating, ensuring stable operation under extreme temperature variations and strong vibration.

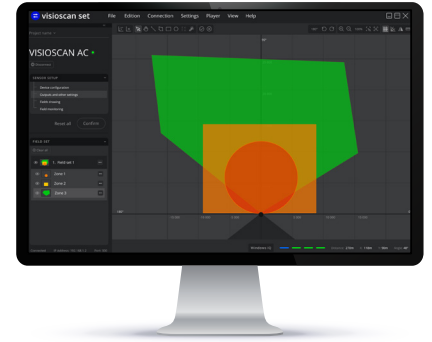


Intelligent Window Monitoring System

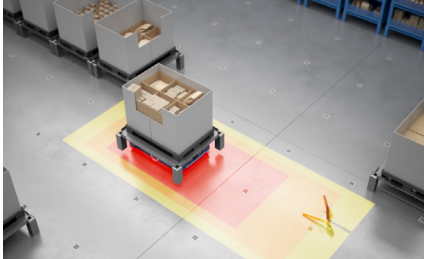
The Intelligent Window Monitoring System detects optical window contamination in real-time, enabling **predictive maintenance** through customizable alerts to prevent performance issues and unplanned downtime.

VISIOSCAN SET

Visioscan Set is a Windows software that enables intuitive configuration and troubleshooting of the scanner. Its user-friendly interface simplifies setting sensor parameters and designing detection fields. Configurations can be saved to files and loaded onto other units, streamlining commissioning. The software also provides direct access to diagnostic data, such as error logs and window contamination status, for efficient maintenance. Visioscan Set can be downloaded from BEAsensors' website.



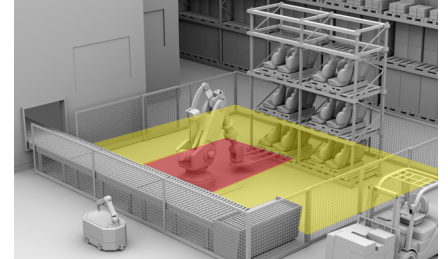
APPLICATIONS



AGV/AMR anti-collision

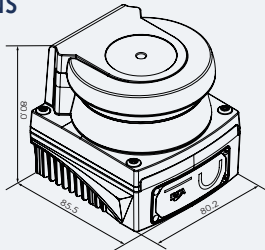


Automatic forklift anti-collision



Area monitoring

DIMENSIONS



All dimensions are in mm. (All dimensions to be held to $\pm 0.3\text{mm}$)

ACCESSORIES



POWER CABLE

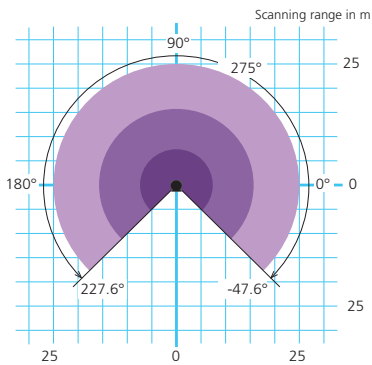


ETHERNET CABLE



MOUNTING BRACKET

TECHNICAL SPECIFICATIONS



- Scanning range for objects up to 1.8% reflectivity, typ. 7 m.
- Scanning range for objects up to 10% reflectivity, typ. 15 m.
- Max. scanning range 25 m.

Technology

Laser scanner, time-of-flight measurement;
Output power < 0.1 mW; Class 1 (IEC/EN 60825-1)

Scanning range

0.08 – 25 m; 7 m @ 1.8% reflectivity; 15 m @ 10% reflectivity;

Curtain

1

Scanning angle

275°

Angular resolution

0.2° @ 80 Hz

Measurement accuracy

Systematic error

+/- 10mm*

Statistical error (1σ)

≤ 6 mm (0.08 – 7 m); ≤ 10 mm (7 – 15 m)*;
≤ 6 mm (0.08 – 25 m) for reflectors

Detection fields

Number of field sets: 16

Number of fields per field set: 3

Supply voltage**

12 – 24 V DC, - 10% / + 30%

Interface

PNP inputs/outputs; Ethernet, TCP/IP; USB: 2.0, Type-C

Digital inputs/outputs

Inputs: 4 x PNP; Outputs: 5 x PNP (Max. 30 V DC, 80 mA)

On/Off delay time

0 - 10 000 ms, configurable

Degree of protection

IP67 (only with the USB port cover in place, IEC/EN 60529)

Ambient conditions

Ambient light immunity

100,000 lux ambient light; 3,000 lux (IEC 61496-3)

Operating temperature

- 30°C to + 60°C

Conformity

This product conforms to all applicable European Union legislation, please refer to the Declaration of Conformity for further information.

* Typical value at 10% reflectivity up to 7 m scanning range or as specified; real values depends on ambient conditions and the target object.

** External electrical sources must be within specified voltages and ensure double insulation from primary voltages. For UL compliance, the device shall be supplied exclusively by class 2 power supplies.

Specifications are subject to changes without prior notice. All values measured in specific conditions.

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