Visionary-B

3D snapshot – two-eye principle for effective use in outdoor environments

3D MACHINE VISION

SICK
Sensor Intelligence.

Visionary-B
3D MACHINE VISION

Technical data overview

Technology	3D snapshot, image analysis
Factory calibrated	✓
Enclosure rating	IP69K, IP67
Configuration software	Via provided monitor / API (C++) (depending on type)

Product description

Thanks to the innovative 3D snapshot technology and its rugged mechanical design, the Visionary-B 3D vision sensor from SICK is ideally suited for harsh outdoor environments, e.g., ports, construction sites, or in agriculture. The Visionary-B uses the stereoscopic principle to deliver both 2D images and 3D data with every snapshot. Depending on the application, all the raw data and the intelligent image processing results can be transferred in the form of object classifications and position determinations. As a driver assistance system with a monitor and live image, Visionary-B provides a rugged, easily configurable 3D collision warning system that is quickly operational and actively warns the driver, acoustically and visually, in critical situations.

At a glance

- Distance values: 250 × 496 pixels and 2D image: 544 × 828 pixels
- High temperature range from −40 °C to +75 °C
- Rugged housing: IP69K for the sensor head
- 2-in-1 solution: eight 3D and eight 2D images per second
- Intelligent image processing: classification and position determination of objects
- Activity recording for the most recent hours possible

Your benefits

- More than 120,000 distance and intensity values in just a single recording
- Designed for harsh outdoor conditions, e.g., strong sunlight, rain
- Intelligent data processing with object detection and classification allows, for example, object tracking and collision warning
- Visionary-B PS provides 3D data, 2D video images and object data via Gigabit Ethernet as well as a programming interface
- Visionary-B CV is an intelligent, easily configurable 3D driver assistance system with a monitor for the driver's cab that outputs active optical and acoustic warnings

Fields of application

- Construction machinery
- Ports
- Cranes
- Mining
- Agriculture
- Wood/forestry

Ordering information

Other models and accessories ➜ www.sick.com/Visionary-B

- **Integrated application:** 3D driver assistance system for collision warning outdoors, image capturing option integrated
- **Detection angle:** 120° x 75°

Sub product family	Description	Working distance	Type	Part no.
Visionary-B CV	1 x color sensor head, 1 x evaluation unit, 1 x 7" monitor, assembly accessories	0.5 m … 7 m	V3S153-2BAAAAAP01	1091806
	1 x color sensor head, 1 x evaluation unit, 1 x IP67, 8" monitor, assembly accessories	0.5 m … 7 m	V3S153-2BAAAABP01	1091807
	1 x sensor head, 1 x evaluation unit, 1 x 7" monitor, assembly accessories	0.5 m … 7 m	V3S153-2AAAAAAP01	1091804
	1 x sensor head, 1 x evaluation unit, 1 x IP67, 8" monitor, assembly accessories	0.5 m … 7 m	V3S153-2AAAAABP01	1091805
	2 x color sensor head, 1 x evaluation unit, 1 x 7" monitor, assembly accessories	0.5 m … 7 m	V3S153-2BAAAAAP02	1091810
	2 x color sensor head, 1 x evaluation unit, 1 x IP67, 8" monitor, assembly accessories	0.5 m … 7 m	V3S153-2BAAAABP02	1091811
	2 x color sensor head, 2 x evaluation unit, 2 x 7" monitor, assembly accessories	0.5 m … 7 m	V3S153-2BAAAAAP03	1091814
	2 x color sensor head, 2 x evaluation unit, 2 x IP67, 8" monitor, assembly accessories	0.5 m … 7 m	V3S153-2BAAAABP03	1091815
	2 x sensor head, 1 x evaluation unit, 1 x 7" monitor, assembly accessories	0.5 m … 7 m	V3S153-2AAAAAAP02	1091808
	2 x sensor head, 1 x evaluation unit, 1 x IP67, 8" monitor, assembly accessories	0.5 m … 7 m	V3S153-2AAAAABP02	1091809
	2 x sensor head, 2 x evaluation unit, 2 x 7" monitor, assembly accessories	0.5 m … 7 m	V3S153-2AAAAAAP03	1091812
	2 x sensor head, 2 x evaluation unit, 2 x IP67, 8" monitor, assembly accessories	0.5 m … 7 m	V3S153-2AAAAABP03	1091813
Visionary-B PS	1 x sensor head, 1 x evaluation unit, 1 x Ethernet cable, assembly accessories	0.5 m … 72 m	V3S173-2AAAAAAP01	1096019

SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is "Sensor Intelligence."

WORLDWIDE PRESENCE:

Contacts and other locations –**www.sick.com**

SICK AG | Waldkirch | Germany | www.sick.com

SICK
Sensor Intelligence.