



## Visionary-B Two

Rugged and smart – 3D snapshot solution for harsh outdoor conditions

**SICK**  
Sensor Intelligence.



## Technical data overview

<b>Technology</b>	3D snapshot stereoscopy
<b>Scan/frame rate</b>	≤ 30 fps
<b>Factory calibrated</b>	✓
<b>Enclosure rating</b>	IP67, IP69, IPX9K
<b>Configuration software</b>	SICK AppStudio, SICK AppManager, SOPASair
<b>Ethernet</b>	✓, TCP/IP, UDP/IP, Communication interface
<b>CAN</b>	✓, data interface, Communication interface

## Product description

The smart Visionary-B Two 3D camera solves assistance and automation tasks. It is especially rugged and therefore suitable for harsh environments, for example for use on mobile machines or in outdoor areas of industrial plants. Using the principle of stereoscopy, the Visionary-B Two calculates distances, e.g., to objects. The camera provides 3D and color data at up to 30 images per second. This device allows you to switch between two field of view sizes: 130° x 105° or 90° x 60° – with no change in resolution. Visionary-B Two offers spare computing capacities for installation, programming and running application-specific software. The GigE Vision interface standard allows flexible and easy integration of the sensor in machines.

## At a glance

- Resolution of the depth and color map: 1,024 px x 576 px; up to 30 images per second
- Switchable field of view sizes: 130° x 105°, 90° x 60°
- GigE Vision
- Meets EMC requirements for mobile machines
- Temperature range: -40 °C to +60 °C
- Enclosure ratings: IP67, IP69K
- Shock and vibration resistant
- Computing capacities for depth map calculation and software programs

## Your benefits

- Ideal for use even in demanding outdoor conditions
- Precise and detailed 3D environment perception
- Optimized measurement characteristics through adaptable field of view
- The standardized interface simplifies the integration of streaming data in automation processes
- Meets industry standards for mobile machines
- Especially reliable thanks to the rugged, vibration and shock resistant sensor design
- Versatile in use; various software solutions can be installed and programmed directly on the sensor
- Cost-effective due to spare computing capacities in the device, e.g., for running application-specific software

## Fields of application

- Object detection and localization
- Collision warning
- Automatic object detection
- Navigation support for mobile machines
- Level monitoring
- Volume measurement
- Detection and measurement of ground structures

## Ordering information

Other models and accessories → [www.sick.com/Visionary-B\\_Two](http://www.sick.com/Visionary-B_Two)

- **Working range:** 0.28 m ... 16 m (Valid for the 130° x 105° field of view.),, 0.65 m ... 37 m (Valid for the 90° x 60° field of view.)
- **Sensor resolution:** 1,024 px x 576 px
- **Scan/frame rate:** ≤ 30 fps
- **Detection angle:** 130° x 105°, 90° x 60°

Type	Part no.
V3S146-1AAAAAA	1133032
V3S146-1ABBAAA	1141229

## 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](http://www.sick.com)