Visionary-T

3D snapshot – for versatile use indoors

3D MACHINE VISION

SICK
Sensor Intelligence.

Visionary-T

3D MACHINE VISION

Technical data overview

Technology	3D snapshot, image analysis
Grayscale measurements	✓
Light source	
Internal lighting	LED, invisible, infrared, 850 nm
Factory calibrated	✓
Enclosure rating	IP67
Configuration software	SOPAS ET / Telegram interface / API (Java) / Web-Interface / SICK AppManager / SICK AppStudio / Web-Interface (depending on type)
Ethernet	✓, Complete data stream combining distance, intensity, and confidence values in one snapshot plus device control / ✓, With the option of polar or Cartesian data reduction / ✓, device control, position and detection status of each cuboid and group / ✓, Data is application-specific or can be defined in independently-developed applications. (depending on type)

Product description

Visionary-T 3D vision sensors from SICK offer maximum flexibility for indoor use due to their innovative 3D-snapshot technology. The Visionary-T provides real-time depth information for each pixel – even for stationary applications – based on time-of-flight measurement. The sensors transmit the complete raw data and data that has been specifically pre-processed for the application in question. In addition, however, it is also possible to transfer measured values that have already been evaluated, resulting in simple sensor responses. In this way, the right information is always transmitted – customized to suit the respective application. High-performance visualization tools and reliable 3D information make the Visionary-T the ideal solution in applications including intralogistics, robotics, or industrial vehicles.

At a glance

- Record up to 50 3D images per second
- Distance values: 144 x 176 pixels per recording
- Output of 3D data via a Gigabit Ethernet interface and simple digital outputs
- Provision of application-specific data
- Temperature range: 0 °C ... 50 °C or 0 °C ... 45 °C (depending on the housing), enclosure rating: IP67

Your benefits

- More than 25,000 distance and intensity values in a single shot
- 3D information is also available for stationary applications
- Easy mounting and rapid sensor replacement
- Programming interface for the use of 3D data for additional evaluation on an external host
- The Visionary-T CX provides 3D data via Ethernet
- The Visionary-T AG offers intelligent data reduction
- The Visionary-T DT is a configurable plug and play 3D detection sensor
- The Visionary-T AP is based on the SICK AppSpace and makes it possible to create applications with SICK AppStudio as well as load application-specific Key Apps to the sensor using SICK AppManager

Fields of application

- Collision warning and navigation
- Object detection
- Palletizing and depalletizing
- Intralogistics
- Factory automation
- Automotive industry

Ordering information

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

- **Working distance:** 0.5 m ... 60 m (Radial distance for targets having 100% remission.)
- **Pixel count:** 176 px x 144 px
- **Detection angle:** 69° x 56°

Sub product family	Integrated application	Type	Part no.
Visionary-T AG	Data stream with the option of filtering, reducing, and manipulating data inside the device	V3S110-2AAAAAA	1091418
		V3S110-2AABAAB	1091420
Visionary-T AP	Data stream with the option of accessing data within the device. Already-finished Key Apps can be loaded onto the device and independent applications can be created.	V3S140-2AAAAAA	1102953
		V3S140-2AABAAB	1102954
Visionary-T CX	Data stream with the option of filtering the data	V3S100-2AAAAAA	1086942
		V3S100-2AABAAB	1086943
Visionary-T DT	3D detection e. g., collision warning, emptiness check, layer check, Intrusion controll, object security	V3S130-2AAAAAA	1088889
		V3S130-2AABAAB	1088890

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