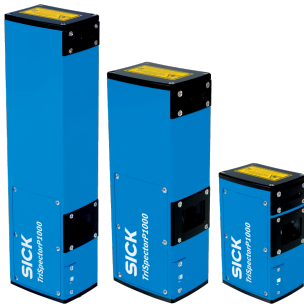# TriSpectorP1000

Tailor-made 3D solutions for flexible automation

SICK
Sensor Intelligence.

TriSpectorP1000

Technical data overview

Technology	3D triangulation
Scan/frame rate	5,000 3D profiles/s
Factory calibrated	✓
Enclosure rating	IP67
Configuration software	SICK AppStudio
Ethernet	✓, TCP/IP, FTP, HTTP
Serial	✓, RS-232, RS-422

Product description

The TriSpectorP1000 is a programmable 3D camera ready for Industry 4.0. Part of the SICK AppSpace eco-system, the 3D camera and the software tools that are included open up possibilities for tailor-made solutions – with easy commissioning and operation in areas such as quality control, robot handling, and profile verification. The TriSpectorP1000 operates stand-alone and contains imaging, lighting, and analysis in a single rugged housing. Laser triangulation technology provides color-independent, contrast-independent, and true object shape data in millimeters. The TriSpectorP1000 is the perfect choice for fully flexible, cost-efficient, in-line industry automation solutions.

At a glance

- 3D, 2D, and profile inspection of moving parts
- Imaging, lighting, and analysis in one housing
- SICK AppSpace, programmable 3D camera
- Full flexibility for tailored solutions
- SICK Algorithm API and HALCON
- Factory-calibrated 3D data
- Web user interface

Your benefits

- Fully flexible automation thanks to contrast-independent, true shape data in mm
- Tailor-made solutions with SICK AppSpace development framework
- Cost-efficient solutions with stand-alone 3D camera, ready for Industry 4.0
- Increased quality and less waste with in-line inspections of all parts in three dimensions
- Easy operation with customized web interface
- Commissioning and device replacement made easy with guaranteed field of view
- Operation in harsh environments with IP67 housing

Fields of application

- 3D robot guidance
- Part quality check
- Assembly check
- Bead inspection
- Profile verification
- Edge and surface defect detection
- OCR of embossed or engraved text

TriSpectorP1000

Ordering information

Other models and accessories ➜ www.sick.com/TriSpectorP1000

- **Sub product family:** TriSpectorP1008
- **Working distance:** 56 mm ... 116 mm
- **Example field of view:** 65 mm x 15 mm
- **Width at maximum operating distance:** ≤ 75 mm
- **Scan/frame rate:** 5,000 3D profiles/s
- **Data points/profile:** 1,536

Window material	Type	Part no.
Glass	V3T11P-MR12A7	1091322
PMMA	V3T11P-MR12A8	1091318

- **Sub product family:** TriSpectorP1030
- **Working distance:** 141 mm ... 541 mm
- **Example field of view:** 270 mm x 100 mm
- **Width at maximum operating distance:** ≤ 330 mm
- **Scan/frame rate:** 5,000 3D profiles/s
- **Data points/profile:** 1,536

Window material	Type	Part no.
Glass	V3T12P-MR32A7	1091321
PMMA	V3T12P-MR32A8	1091319

- **Sub product family:** TriSpectorP1060
- **Working distance:** 291 mm ... 1,091 mm
- **Example field of view:** 540 mm x 200 mm
- **Width at maximum operating distance:** ≤ 660 mm
- **Scan/frame rate:** 5,000 3D profiles/s
- **Data points/profile:** 1,536

Window material	Type	Part no.
Glass	V3T13P-MR62A7	1091323
PMMA	V3T13P-MR62A8	1091320

- **Sub product family:** TriSpectorP 3D Belt Pick
- **Scan/frame rate:** 5,000 3D profiles/s
- **Data points/profile:** 1,536

Working distance	Example field of view	Width at maximum operating distance	Window material	Type	Part no.
141 mm ... 541 mm	270 mm x 100 mm	≤ 330 mm	Glass	V3T12P-MR32A7S50	1106177
			PMMA	V3T12P-MR32A8S50	1106180
291 mm ... 1,091 mm	540 mm x 200 mm	≤ 660 mm	Glass	V3T13P-MR62A7S50	1106181
			PMMA	V3T13P-MR62A8S50	1106182

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

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