

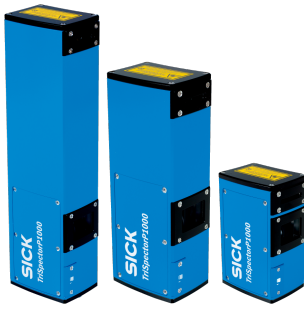


TriSpectorP1000

Tailor-made 3D solutions for flexible automation

3D MACHINE VISION

SICK
Sensor Intelligence.



Technical data overview

| | |
|-------------------------------|--|
| Technology | 3D line scanning |
| Scan/frame rate | 5,000 3D profiles/s |
| Light source | Internal lighting Laser, Visible, Red, 660 nm, ± 7 nm |
| 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

Ordering information

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

- **Laser class:** 2
- **Scan/frame rate:** 5,000 3D profiles/s

| Sub product family | Working distance | Window material | 3D profile resolution | Type | Part no. |
|--------------------------|---------------------|-----------------|-----------------------|------------------|----------|
| TriSpectorP 3D Belt Pick | 141 mm ... 541 mm | Glass | 0.215 mm/px | V3T12P-MR32A7S50 | 1106177 |
| | | PMMA | 0.215 mm/px | V3T12P-MR32A8S50 | 1106180 |
| | 291 mm ... 1,091 mm | Glass | 0.43 mm/px | V3T13P-MR62A7S50 | 1106181 |
| | | PMMA | 0.43 mm/px | V3T13P-MR62A8S50 | 1106182 |
| TriSpectorP1008 | 56 mm ... 116 mm | Glass | 0.049 mm/px | V3T11P-MR12A7 | 1091322 |
| | | PMMA | 0.049 mm/px | V3T11P-MR12A8 | 1091318 |
| TriSpectorP1030 | 141 mm ... 541 mm | Glass | 0.215 mm/px | V3T12P-MR32A7 | 1091321 |
| | | PMMA | 0.215 mm/px | V3T12P-MR32A8 | 1091319 |
| TriSpectorP1060 | 291 mm ... 1,091 mm | Glass | 0.43 mm/px | V3T13P-MR62A7 | 1091323 |
| | | PMMA | 0.43 mm/px | V3T13P-MR62A8 | 1091320 |

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