

# Inspector

An intelligent vision solution in an easy-to-use sensor package







#### Technical data overview

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Sensor	CMOS matrix sensor, grayscale values
Sensor resolution	384 px x 384 px 640 px x 480 px 800 px x 600 px
Optical focus	Adjustable focus (manually)
Lens	S-mount
Optical format	1/3"
Operator interfaces	Inspector Viewer Web server Inspector Viewer software (depending on type)
Ethernet	√ / TCP/IP / ✓ (depending on type)
EtherNet∕IP™	✓
EtherCAT	✓, DC (Distributed Clocks), EoE (Ethernet over Ether-CAT®), FoE (Files Access over EtherCAT®), CoE (CAN over EtherCAT®)
Configuration software	SOPAS ET / Inspector Viewer software (depending on type)
Dimensions	100 mm x 53 mm x 38 mm 263.2 mm x 221.2 mm x 54.4 mm

## **Product description**

The Inspector is an intelligent vision solution in an easy-to-use sensor package. No matter if the task is to verify completeness and quality, find a part's position or measure its dimensions, the Inspector is up to the challenge. The sensors' rugged design and IP 67 metal housing makes them ideal for tough environments and intelligent processing technology makes the Inspector perfect for high-speed applications. The flexible housing is designed to easily optimize the optical needs of your application. This ensures excellent inspection even with tough targets, such as highly reflective metal parts and multicolored labels. The Inspector family provides broad support for control, monitoring and data collection through a variety of interfaces. This vision sensor provides everything to meet your integration needs and facilitate daily work.

#### At a glance

- · High-speed positioning, inspection and measuring
- · Powerful "object locator" tool, independent of position, rotation and scale
- · Unique, interchangeable housing design supporting dome and various optical accessories
- Simple step-by-step configuration in PC including emulator
- Easy-to-use operator interfaces
- · Flexible machine and HMI design interfaces

### Your benefits

- The multi-functional vision toolbox offers smart camera-level performance but with sensor ease-of-use
- · Unique, interchangeable housing design provides the easiest way to improve image quality
- The simple configuration in SOPAS, including emulator for offline configuration and testing, will reduce downtimes in production to a minimum
- The easy-to-use operator interfaces are optimized to make it easier for the operator to oversee daily work more efficiently
- Ethernet communication and web API gives excellent connectivity and freedom to customize user's HMI

## **Ordering information**

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

• Product name: Inspector P30

• Products by tasks: presence inspection, Quality check, measuring, 2D, Position determination

Illumination: integratedIllumination color: White

Lens	Working distance	Sensor resolution	Sensor	Optical focus	Туре	Part no.
6 mm, S- mount	≥ 50 mm	384 px x 384 px	CMOS ma- trix sensor, grayscale values	Adjustable focus (manually)	VSPP-3F1122	1051982

• Product name: Inspector I10 Standard

• Products by tasks: presence inspection, Quality check, measuring, 2D, Position determination

Illumination: integratedIllumination color: White

Lens	Working distance	Sensor resolution	Sensor	Optical focus	Туре	Part no.
6 mm	≥ 50 mm	384 px x 384 px	CMOS ma- trix sensor, grayscale values	Adjustable focus (manually)	VSPI-1R111	1042779

• Product name: Inspector i10 diffuser

• Products by tasks: presence inspection, Quality check, measuring, 2D, Position determination

• Illumination: integrated

• Illumination color: White (dome light)

Lens	Working distance	Sensor resolution	Sensor	Optical focus	Туре	Part no.
6 mm	≥ 50 mm	384 px x 384 px	CMOS matrix sensor, grayscale values	Adjustable focus (manually)	VSPI-1D111	1044038

• Product name: Inspector I20-IR

• Products by tasks: presence inspection, Quality check, measuring, 2D, Position determination

Illumination: integratedIllumination color: infrared

Lens	Working distance	Sensor resolution	Sensor	Optical focus	Туре	Part no.
6 mm, S- mount	≥ 50 mm	384 px x 384 px	CMOS matrix sensor, grayscale values	Adjustable focus (manually)	VSPI-2F141	1054704

## **Inspector**

• Product name: Inspector I20 diffuser

• Products by tasks: presence inspection, Quality check, measuring, 2D, Position determination

• Illumination: integrated

• Illumination color: White (dome light)

Lens	Working distance	Sensor resolution	Sensor	Optical focus	Туре	Part no.
6 mm	≥ 50 mm	384 px x 384 px	CMOS ma- trix sensor, grayscale values	Adjustable focus (manually)	VSPI-2D111	1046733

• Product name: Inspector I20

• Products by tasks: presence inspection, Quality check, measuring, 2D, Position determination

Illumination: integratedIllumination color: White

Lens	Working distance	Sensor resolution	Sensor	Optical focus	Туре	Part no.
6 mm, S- mount	≥ 50 mm	384 px x 384 px	CMOS ma- trix sensor, grayscale values	Adjustable focus (manually)	VSPI-2F111	1046732

• Product name: Inspector I20-UV

· Products by tasks: presence inspection, Quality check, measuring, 2D, Position determination

Illumination: integratedIllumination color: UV

Lens	Working distance	Sensor resolution	Sensor	Optical focus	Туре	Part no.
6 mm, S- mount	≥ 50 mm	384 px x 384 px	CMOS ma- trix sensor, grayscale values	Adjustable focus (manually)	VSPI-2F121	1048353

• Product name: Inspector I40

• Products by tasks: presence inspection, Quality check

Illumination: integratedIllumination color: White

Lens	Working distance	Sensor resolution	Sensor	Optical focus	Туре	Part no.
10 mm, S-mount	≥ 50 mm	640 px x 480 px	CMOS ma- trix sensor, grayscale values	Adjustable focus (manually)	VSPI-4F2111	1047913

• Product name: Inspector I40-LUT

• Products by tasks: presence inspection, Quality check

Illumination: integratedIllumination color: UV

Lens	Working distance	Sensor resolution	Sensor	Optical focus	Туре	Part no.
10 mm, S-mount	≥ 50 mm	640 px x 480 px	CMOS ma- trix sensor,	Adjustable fo- cus (manually)	VSPI-4F2311	1050694

Lens	Working distance	Sensor resolution	Sensor	Optical focus	Туре	Part no.
			grayscale values			

• Product name: Inspector I40-IR

• Products by tasks: presence inspection, Quality check

Illumination: integratedIllumination color: infrared

Lens	Working distance	Sensor resolution	Sensor	Optical focus	Туре	Part no.
10 mm, S-mount	≥ 50 mm	640 px x 480 px	CMOS ma- trix sensor, grayscale values	Adjustable focus (manually)	VSPI-4F2411	1054705

• Product name: Inspector PI50

• Products by tasks: presence inspection, Quality check, measuring, 2D, Position determination

Illumination: integratedIllumination color: White

Lens	Working distance	Sensor resolution	Sensor	Optical focus	Туре	Part no.
10 mm, S-mount	≥ 50 mm	640 px x 480 px	CMOS ma- trix sensor, grayscale values	Adjustable focus (manually)	VSPP-5F2113	1056082

• Product name: Inspector PI50-IR

• Products by tasks: presence inspection, Quality check, measuring, 2D, Position determination

• Illumination: integrated

• Illumination color: Infrared LED

Lens	Working distance	Sensor resolution	Sensor	Optical focus	Туре	Part no.
10 mm, S-mount	≥ 50 mm	640 px x 480 px	CMOS ma- trix sensor, grayscale values	Adjustable focus (manually)	VSPP-5F2413	1057303

• Product name: Inspector PI50 EtherCAT

• Products by tasks: presence inspection, Quality check, measuring, 2D, Position determination

Illumination: integratedIllumination color: White

Lens	Working distance	Sensor resolution	Sensor	Optical focus	Туре	Part no.
10 mm, S-mount	≥ 50 mm	640 px x 480 px	CMOS ma- trix sensor, grayscale values	Adjustable focus (manually)	VSPP-5F2134	1056394

## **Inspector**

• Product name: Inspector PIM60 Base

• Products by tasks: presence inspection, Quality check, measuring, 2D, Position determination

Illumination: integratedIllumination color: White

Lens	Working distance	Sensor resolution	Sensor	Optical focus	Туре	Part no.
To be ordered separately as accessories, S-mount	≥ 50 mm	640 px x 480 px	CMOS ma- trix sensor, grayscale values	Adjustable focus (manually)	VSPM-6B2113	1064565

• Product name: Inspector PIM60-IR Base

• Products by tasks: presence inspection, Quality check, measuring, 2D, Position determination

Illumination: integratedIllumination color: infrared

Lens	Working distance	Sensor resolution	Sensor	Optical focus	Туре	Part no.
To be ordered separately as accessories, S-mount	≥ 50 mm	640 px x 480 px	CMOS ma- trix sensor, grayscale values	Adjustable focus (manually)	VSPM-6B2413	1064566

• Product name: Inspector PIM60 Universal Robots Kit

• Products by tasks: presence inspection, Quality check, measuring, 2D, Position determination

Lens	Working distance	Sensor resolution	Sensor	Optical focus	Туре	Part no.
S-mount	≥ 50 mm	640 px x 480 px	CMOS ma- trix sensor, grayscale values	Adjustable focus (manually)	VSPM-6B2413 Universal Robots Kit	1097255

• Product name: Inspector PIM60

• Products by tasks: presence inspection, Quality check, measuring, 2D, Position determination

Illumination: integratedIllumination color: White

Lens	Working distance	Sensor resolution	Sensor	Optical focus	Туре	Part no.
10 mm, S-mount	≥ 50 mm	640 px x 480 px	CMOS ma- trix sensor, grayscale values	Adjustable focus (manually)	VSPM-6F2113	1062407

• Product name: Inspector PIM60 Bead

· Products by tasks: presence inspection, Quality check, measuring, 2D, Position determination

Illumination: integratedIllumination color: White

Lens	Working distance	Sensor resolution	Sensor	Optical focus	Туре	Part no.
10 mm, S-mount	≥ 50 mm	640 px x 480 px	CMOS ma- trix sensor, grayscale values	Adjustable focus (manually)	VSPM-6F2113S19	1079321

• Product name: Inspector PIM60-LUT

• Products by tasks: presence inspection, Quality check, measuring, 2D, Position determination

Illumination: integratedIllumination color: UV

Lens	Working distance	Sensor resolution	Sensor	Optical focus	Туре	Part no.
10 mm, S-mount	≥ 50 mm	640 px x 480 px	CMOS ma- trix sensor, grayscale values	Adjustable focus (manually)	VSPM-6F2313	1062409

• Product name: Inspector PIM60-LUT Bead

• Products by tasks: presence inspection, Quality check, measuring, 2D, Position determination

Illumination: integratedIllumination color: UV

Lens	Working distance	Sensor resolution	Sensor	Optical focus	Туре	Part no.
10 mm, S-mount	≥ 50 mm	640 px x 480 px	CMOS matrix sensor, grayscale values	Adjustable focus (manually)	VSPM-6F2313S20	1079322

• Product name: Inspector PIM60-IR

· Products by tasks: presence inspection, Quality check, measuring, 2D, Position determination

Illumination: integratedIllumination color: infrared

Lens	Working distance	Sensor resolution	Sensor	Optical focus	Туре	Part no.
10 mm, S-mount	≥ 50 mm	640 px x 480 px	CMOS ma- trix sensor, grayscale values	Adjustable focus (manually)	VSPM-6F2413	1062408

• Product name: Inspector PIM60-IR Bead

• Products by tasks: presence inspection, Quality check, measuring, 2D, Position determination

Illumination: integratedIllumination color: infrared

Lens	Working distance	Sensor resolution	Sensor	Optical focus	Туре	Part no.
10 mm, S-mount	≥ 50 mm	640 px x 480 px	CMOS ma- trix sensor, grayscale values	Adjustable focus (manually)	VSPM-6F2413S18	1076617

• Product name: Inspector Viewer

• **Products by tasks:** presence inspection, Quality check, measuring, 2D, Position determination

Sensor res- olution	Sensor	Optical focus	Processor	Туре	Part no.
800 px x 600 px	CMOS ma- trix sensor, grayscale values	Adjustable focus (manually)	1.6 GHz	VSPV-22222	2057556

# 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

