



## PLOC2D

Easy to use and flexible part localization sensor system

ROBOT GUIDANCE SYSTEMS

**SICK**  
Sensor Intelligence.



### Technical data overview

<b>System features</b>	Stand-alone sensor with easy teach, for localization of parts using 2D measurements
<b>Example field of view</b>	2000 mm x 2000 mm For details see field of view diagram (depending on type)
<b>Working range</b>	≤ 3 m 70 mm ... 1,500 mm 300 mm ... 1,500 mm
<b>Part localization time</b>	< 0.5 seconds for the first part in the image and then < 100 ms for additional parts in the image
<b>Localization accuracy</b>	+/-1 mm, +/-0.1° / ± 0.5 px, ± 0.1° (depending on type)
<b>Enclosure rating</b>	IP65

### Product description

The PLOC2D is a vision system for 2D parts localization. The easy-to-operate sensor system is fitted with a high-quality image processing hardware which is used in combination with a powerful localization algorithm. It can therefore localize parts quickly and reliably. The housing of the sensor system has an enclosure rating of IP65. The PLOC2D is connected directly to the robot control or the PLC and is ready to use immediately. The intuitive human machine interface is designed to ensure that the PLOC2D is easy to set up and maintain in production environments.

### At a glance

- 2D position determination of parts
- Comparison of coordinate systems of robots and sensor systems
- Tools and functions for easy calibration of the FLEX variants
- Intuitive human machine interface for set-up and maintenance of system components
- Stand-alone sensor system – no external PC required

### Your benefits

- The sensor system is ready for measurement when unpacked
- Easy setup and operation does not require the expertise of a machine vision specialist
- Fast and simple calibration of the FLEX versions, alongside a wide range of lens and illumination accessories, ensures easy adaptation to specific requirements
- Powerful teach-in and high accuracy ensures reliable operation
- Simple integration with most robot brands and PLCs

### Fields of application

- Robot picking of parts from conveyors
- Robot picking from anyfeeders
- Robot packing
- Robot machine maintenance
- Robot picking of kitted parts

## Ordering information

Other models and accessories → [www.sick.com/PLOC2D](http://www.sick.com/PLOC2D)

Integrated applications	Items supplied	Type	Part no.
2D location of parts at standard resolution with a small field of view and short reading distances	Camera with S-mount PLOC2D software Not included with delivery: Optics and illumination	PLOC2D-631S	1089627
Basic resolution 2D localization of parts in medium fields of view at medium reading distances	Camera with C-mount PLOC2D software Not included with delivery: Optics and illumination	PLOC2D-631C	1089629
	Camera, complete with integrated optics and illumination PLOC2D software	PLOC2D-621-10RB	1118608
		PLOC2D-621-17NIR	1118607
		PLOC2D-621-17RB	1118606
High resolution 2D localization of parts in large fields of view	Camera with C-mount PLOC2D software Not included with delivery: Optics and illumination	PLOC2D-654C	1087255
High resolution 2D localization of parts, with device factory calibrated for field of view 2000 x 2000 mm at approximately 3 m reading distance	Camera Optics and illumination PLOC2D software	PLOC2D-2000	1086007
Medium resolution 2D localization of parts in medium/large fields of view at medium/long reading distances	Camera with C-mount PLOC2D software Not included with delivery: Optics and illumination	PLOC2D-632C	1089628
	Camera with S-mount PLOC2D software Not included with delivery: Optics and illumination	PLOC2D-632S	1089643

## 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)