

# INDUSTRIAL IMAGE PROCESSING



## BECAUSE SEEING IS SOMETIMES BETTER

In our automated industrial landscape, the use of industrial image processing will increasingly become standard. Even today, modern devices allow camera systems to be used in many standard applications, thereby significantly increasing the reliability and availability of your plant systems.

To this end, our smart cameras offer, for example, ...

- A convenient webConfig software tool for browser-based, computer-independent sensor configuration via Ethernet.
- An integrated illumination for the homogeneous illumination of the field of vision.
- Automated, motor-driven focus and illumination adjustment which makes manual alignment unnecessary in the case of batch changes.



*“Always knowing which product is the right one for the task in question requires a great deal of experience as well as a good portion of creativity. Experience because this prevents mistakes in positioning or designing a system being made twice. Creativity because the specific circumstances on site sometimes do not permit a standard installation, making skill and the right ideas necessary to solve the tasks in hand. And knowing this enables us to be extremely helpful to our customers.”*

Sven-Philipp Abraham,  
Product Management —  
Product Center Ident + Vision



THE **MEASUREMENT FUNCTION** IN THE **LSIS 462i** MAKES POSSIBLE MINIMAL TOLERANCES AND THEREBY REDUCES, E.G., THE SCRAPPING OF GOOD PARTS!

The further development of our LSIS 462i smart camera brings a long-desired addition to the already extensive range of functions. The new version of our top product can now also

measure and is, thus, the best and—thanks to its attractive price—the most efficient solution for many applications.

**You would also like to use your smart camera for measurement applications?**

*The integrated measurement through edge scanning facilitates efficient use in entirely new applications.*

**You're looking for a device that doesn't need additional illumination?**

*The lighting integrated in the device usually makes additional light sources unnecessary and provides extremely homogeneous and flexible illumination over the entire field of view.*



**A smart camera should be as flexible and versatile as possible?**

*The LSIS 400i provides three functions in one device (Blob analysis, code reading, measurement through edge scanning), allowing flexible use in many different applications.*

**Connection, commissioning and operation need to be extremely easy?**

*Thanks to its user-friendly M12 connection technology, eight inputs and outputs also allowing control without a PC, and the webConfig software for fast and uncomplicated commissioning and fault diagnosis, the smart camera can be set up and used quickly at any location.*



# Smart Cameras





**LSIS 412i**  
Smart Camera



**LSIS 462i**  
Smart Camera



**Typical applications**

Presence/completeness monitoring

Dimension / position monitoring

Position and type detection

Code reading

Measurement

Sensor / cameras

Resolution (pixel)

Focal point

**Interface**

**Connectivity**

**Digital inputs/outputs**

**Fast EtherNet**

**Optional**

**Number of test routines**

**Configuration / Operating system**

**Options**

**Dimensions, W x H x D**

**Certifications**

**Features**

X

X

X

CMOS (Global Shutter)

752 x 480

50 mm ... ∞ (focal length 8 mm)  
75 mm ... ∞ (focal length 16 mm)  
Depends on lens with C-mount models

**Integrated:**

EtherNet, RS 232

**With MA 200i connector unit**

PROFINET IO/RT  
PROFIBUS  
EtherCAT  
DeviceNet  
CANopen

8, configurable

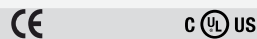
Yes

Cables, mounting devices, external illumination

Typically 10 to 60, depending on scope of test

Configuration via PC using standard Web browser (webConfig tool)

75 x 113 x 55 mm



Very well suited for industrial use through glass or plastic window, metal housing and homogeneous integrated illumination (depends on type: white, IR or RGBW). Degree of protection IP 65 / 67. Flexible use through motor-driven focus adjustment.

X

X

X

Data Matrix, bar code, Pharmacode

X

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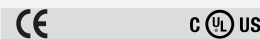
Cables, mounting devices, external illumination

Typically 10 to 60, depending on scope of test

Configuration via PC using standard Web browser (webConfig tool)

such as LSIS 422i (s. p. 70)

75 x 113 x 55 mm



Very well suited for industrial use through glass or plastic window, metal housing and homogeneous integrated illumination (depends on type: white, IR or RGBW). Degree of protection IP 65 / 67. Flexible use through motor-driven focus adjustment.