



SK receipt

Defective goods are no longer delivered to your company

The Smart Klaus for the goods receipt

Automatic identification

Sample inspection according to ISO 2859

Counting

Registering

Easy teach-in

Smart Klaus automatically identifies, checks, counts and registers, even without barcodes, QR codes or RFID.

Your advantages at a glance

- Direct and reliable detection of articles and errors
- Process deliveries quickly -> save time
- Reduce error rate
- increase productivity

stop allowing errors

With the Smart Klaus, workers inspect hundreds of products one after the other quickly and without errors, by recognizing individual products through the camera. The focus here is on optical recognition and subsequent quality inspection of your articles. The assistance system detects errors in the millimeter range.

Articles are individually identified by the camera and image recognition software and checked for dimensional accuracy and visual characteristics. After each inspection, your employee receives audio-visual feedback.

This ensures that only the correct, defect-free goods arrive at your premises and you produce top quality products for your customers.

Functions

- Easy learning of new articles
- Identification of articles based on optical characteristics, barcode, DataMatrix code or text recognition (OCR)
- Optical examination for the presence of visual features
- Optical check for the absence of visual features (e.g. known defect images)
- Optical check for dimensional accuracy
- counting of articles and comparison with predefined lists
- Recording the identified articles
- Instruction of employees in complex incoming goods inspections

Extensions

- Connection of digital measuring tools
- Automatic documentation of the incoming goods inspection (time stamp, serial number, inspection and measurement results, images)
- Interface to corporate IT for seamless integration into your flow of goods



Technical data

Dimensions

Lighting	1.200 x 800 mm
Working distance	1.200 mm

Camera

Resolution	4912 x 3684 pixels, 18,1 megapixels
Framerate	21 fps

Field of view and detection accuracy

The field of view of the camera and the detection accuracy depend on the focal length of the used lens. Experience values are given for the detection accuracy at which Schlaue Klaus functions reliably in typical industrial environments. Under optimum ambient conditions, the process-safe detection accuracy improves by a factor of about 7.

focal length	16 mm	12 mm	8,5 mm	3,5 mm
Field of view	340 x 250 mm	700 x 500 mm	1.000 x 750 mm	2.200 x 1.600 mm
Recognition accuracy	approx. 0,5 mm	approx. 1,0 mm	approx. 2,0 mm	approx. 4,5 mm

Lighting

Power consumption	70 W
Luminous flux	approx. 7.000 Lumen
Illuminance on the work surface	approx. 2.500 Lux
Light colour	6.000 K (cold white)

Image processing computer

Powder-coated industrial computer	
Processor	Intel i7-8700, 3,7 GHz, 6 cores, 12 threads
RAM	8 GB
Hard disk	2 x 240 GB, configured as RAID 1
Operating system	Windows 10 IoT Enterprise
2 integrated Gigabit network adapters	
4 switched cold appliance outputs (total max. 1,000 W)	

Touch Monitor

Screen diagonal	21.5 inch
Resolution	1.920 x 1.080 pixels
Touch technology	Projected capacitive, 10-point Multi-Touch

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