SK inspect

Automatically all good

Smart Klaus for end-of-line inspection

Checking | Graphical defect display | Easy teach-in

Smart Klaus checks the quality of your products and points out errors.

Your advantages at a glance

- Reduction of your complaint rate through 100% control of the products
- Any number of features of your products are inspected by one camera
- One-time commissioning. Subsequent, expensive programming for new Products or features not applicable
- Your reclamation costs drop to zero
- You save up to two thirds of the previous testing time

Final inspection in just a few seconds

During the visual final inspection, Clever Klaus checks the quality of your products in a single step within seconds.

Your products are either fed automatically and pass under the camera or an employee places each product manually under the camera - depending on your process. Faulty products can be automatically rejected.

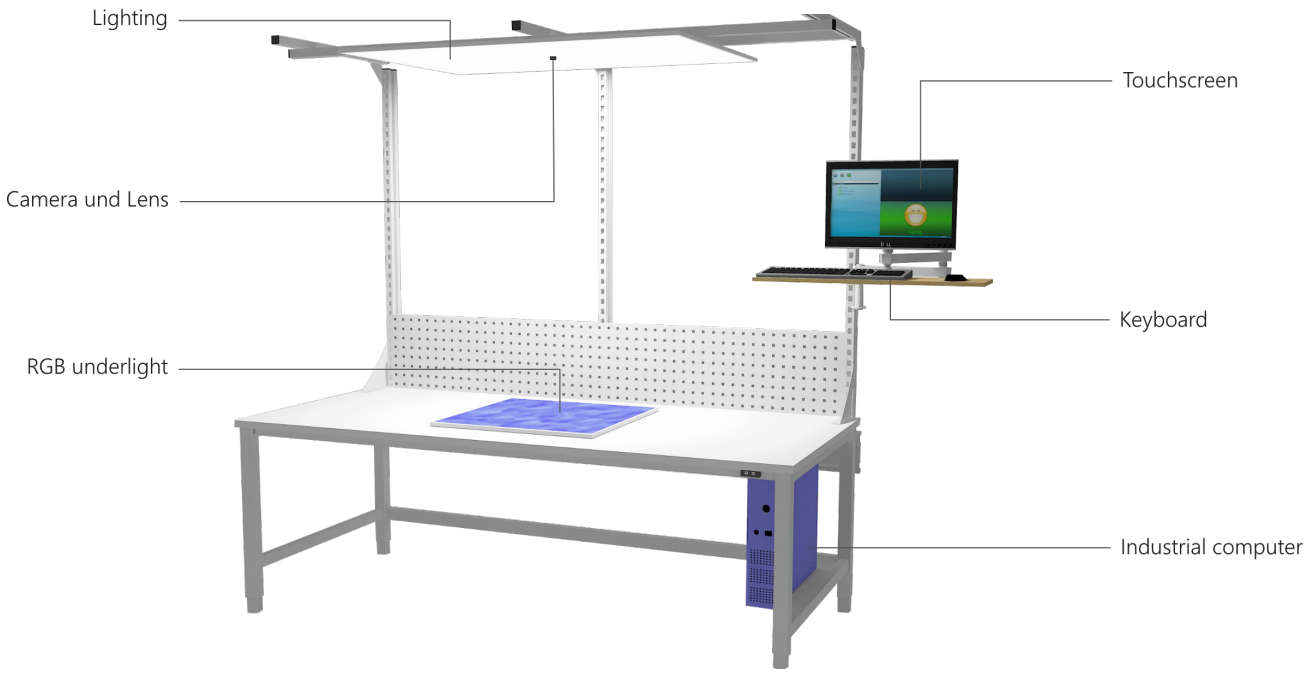
Each inspection result can be documented on request. In case of complaints, you can easily prove that the rejected product was produced without defects.

Functions

- Simple teaching of new or modified test instructions
- Inspection of the test specimen on the basis of visual characteristics
- Reporting of detected errors
- Marking of the faulty areas on the screen

Extensions

- Instruction of the operator for complex testing processes
- Integration of digital measuring tools
- Marking of the defective spots by laser directly on the test specimen



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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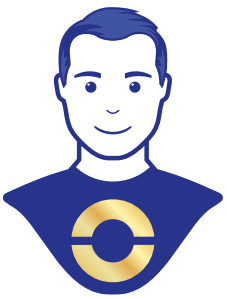

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