



## Midi test equipment with mechanical device for final assembly and separate darkroom

### Product description

A mechanical device with two workstations.

The first represents process-monitored final assembly of industrial cameras in camera housings, which are assembled with a contour-milled mount including a suitable lock and torque-monitored screwdriver.

On the second level, it is accommodated in a drawer including several contacting adapters in order to be able to ensure the coupling of different camera variants. By introducing it into a darkroom, the camera can be checked for position, alignment and function in a light-tight chamber.

At the same time, the installation features of the camera are checked using two separate industrial cameras. These include sealing strips and plugs, which are not only tested for installation but also for correct assembly and alignment.

### Field of application

Final assembly, quality control, end-of-line testing in production/manufacturing



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### Technical data

<b>Test bench/device</b>	
<p><b>Modular test table with assembly and test object holder</b></p> <ul style="list-style-type: none"> <li>• Electrical height adjustment</li> <li>• Combination recording designed for up to 3 camera variants</li> <li>• Pneumatics including air gun for easy cleaning</li> <li>• Measuring, testing, control and supply technology in "Midi" design (under the test bench)</li> </ul>	
<b>Software</b>	
<p>TST-WIN test system</p> <ul style="list-style-type: none"> <li>• All settings and processes are menu-driven and freely programmable</li> <li>• Extensive options for controlling the process and measurements</li> <li>• Visualization of the test results using a table of measured values and an additional graphic display</li> <li>• Additional 5 modules can be added:                     <ul style="list-style-type: none"> <li>➢ „Assembly“ allows for the integration of operator prompts and monitored tools</li> <li>➢ „Remote maintenance“ enables remote access by ITronic service staff in the event of a fault</li> <li>➢ „MES“ enables variant-dependent testing by a higher-level system</li> <li>➢ "ITDB" incl. ViTronic enables the evaluation and statistical processing of measurement data</li> <li>➢ "Image processing and photo documentation" enables the use of a camera</li> </ul> </li> </ul>	
<b>Scope of testing</b>	
<ul style="list-style-type: none"> <li>• <b>User-guided assembly instructions via the "Assembly" software module</b> <ul style="list-style-type: none"> <li>- Correct assembly and torque of the screw connection using a monitored screwdriver</li> <li>- Step-by-step instructions including visualization and operator confirmation of assembly steps</li> </ul> </li> <li>• <b>Electronic exam</b> <ul style="list-style-type: none"> <li>- Position, orientation and function of the respective camera in connection with a reference image comparison</li> <li>- Reading camera-specific options (hardware part number, software version, serial number...)</li> </ul> </li> <li>• <b>Optical test</b> <ul style="list-style-type: none"> <li>- Presence, correct orientation and variant of sealing strips and plugs</li> </ul> </li> </ul>	
<b>Input-/visualisation units</b>	<b>Dimensions/Transport</b>
<ul style="list-style-type: none"> <li>• Keyboard</li> <li>• Monitor</li> <li>• Control box</li> </ul>	<ul style="list-style-type: none"> <li>• 2000x2270 – 2600 x1200 mm (WxHxD) Weight approx. 330 kg</li> </ul>
<b>Test time</b>	<b>Exemplary device type</b>
<ul style="list-style-type: none"> <li>• Individual, depending on test scope</li> </ul>	<ul style="list-style-type: none"> <li>• 1056982</li> </ul>