

## HeiDetect Live View



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### Testing earlier produces quality faster!

More control offers more safety. Our HeiDetect Live View offers you this added value. Whether as a 2D version (DR) or a 3D version (CT), it is an investment that pays off for you. Because the Live View inspects at an early stage of the production process – even before your components are cast in series. This enables you to set the optimum casting parameters with minimal scrap. The result: you produce perfect parts faster – and only the highest quality goes into further processing.



The HeiDetect Live View impresses with its flexible machine concept. In its basic version, it represents a portfolio extension to our highly automated inline machines as a manual testing machine. Thanks to its compact dimensions, it can be easily integrated into the production environment and placed directly on the casting platform, for example. The random inspection directly after casting can reduce scrap production in the long term, as defects are detected as early as possible. The ramp-up of new products can also be optimized efficiently in this way.

The workpiece manipulator is designed as an innovative SCARA kinematic system, which means that the machine can be loaded ergonomically from the outside and also offers significantly more space in the interior because it remains free and unobstructed.

Often, however, the requirements for a machine change: For example, the concept provides for later retrofitting for automated loading and unloading. For example, manual loading can be retained on the operating side, while a gate for automated loading and unloading can be integrated on the rear side or in the roof. In this way, the basic structure of the plant is retained and yet offers maximum flexibility for every requirement and increasing quantities.

In addition, automatic defect detection can also be retrofitted.

In addition, the machine can also be upgraded with CT functionality at a later date if testing requirements change or become more stringent accordingly.

### Your advantages at a glance

- › Suitable for different components, because source and detector are height adjustable
- › CT capability, automatic defect detection and automated loading and unloading easily retrofittable
- › Durability due to high-quality and dirt-resistant SCARA kinematics
- › Precise test results thanks to smallest detectable defect sizes and expansions
- › Flexible archiving: image data can be stored in the form of a ring buffer or indefinitely, sorted according to various criteria
- › Secure transmission of test results
- › Future-proof through alternative interface concepts such as e-mail dispatch or cloud connections (optional)
- › Operator-friendly due to ergonomic loading and unloading
- › Individual customization options depending on requirements
- › Suitable for testing in production as well as in incoming goods or in the laboratory

### Technical data

X-ray tube *			
Type	Std. Focus	Std. Focus	Meso Focus
max. Voltage	160 kV	225 kV	225 kV
max. Power	800 W	1800 W	200 W
Focal spot	0,8 mm (IEC60336)	0,4 / 1,0 mm (EN 12543)	50 - 200 µm (ASTM E1165-12)
Detector **			
Type	XRD0822	1012M	1717M
Active area	200 x 200 mm <sup>2</sup>	250 x 300 mm <sup>2</sup>	427 x 427 mm <sup>2</sup>
Pixel pitch	200 / 400 µm	100 / 200 µm	139 - 417 µm
Pixels	1024 x 1024 / 512 x 1248	3008 x 2496 / 1504 x 1248	3072 x 3072 - 1024 x 1024
Dynamic range	14 bit / 16 bit	16 bit	16 bit
Part specification ***			
max. Part size DR	385 x 700 mm		160 x 460 mm
max. Part size CT	385 x 700 mm		160 x 160 mm
Weight	25 kg		25 kg
Inspection system			
Type	2D-Version (DR)	3D Version (CT)	
Length / Width / Height	2.000 / 1.400 / 2.000 mm	2.300 / 1.400 / 2.000 mm	
Weight	5 t	6 t	
Floor space required	ca. 3 m <sup>2</sup>	ca. 3 m <sup>2</sup>	
Ambient temperature	up to 50 °C	up to 50 °C	
Software			
Volle Unterstützung für Volume Graphics, VGSTUDIO MAX, Thermo Scientific Avizo u.a.			

\* optionally other tubes available

\*\* optionally further detectors (also different sizes) possible

\*\*\* scannable component dimensions depending on detector and feature selection