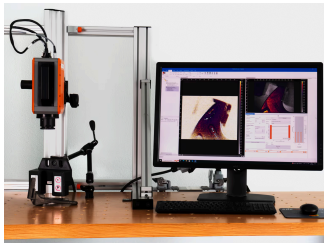


# ITVIS 5000

High-performance induction thermography for fast industrial inspection tasks



## More power for demanding crack and surface inspection.

ITvis 5000 MHF uses induction thermography for non-contact, non-destructive inspection of metallic and hybrid components. With 5 kW of power and a frequency range from 15 to 60 kHz, the system generates targeted heat within the inspection area and is particularly suited for fast, reproducible inspections in production, quality assurance and maintenance.

Cracks, laps and defects in welds, solder joints and other joints influence the local current density and therefore the heat flow within the component. These thermal anomalies are captured by an infrared camera and evaluated using dedicated software.

By selecting the appropriate inductor, the excitation can be adapted to the component geometry and inspection task – from localized joints to linear welds or adhesive bonds.

The robust, air-cooled 19" design is intended for industrial use and can be integrated into automated inspection processes. This makes the ITvis 5000 MHF especially suitable for applications requiring high inspection speed, reproducible results and flexible adaptation to different components.

## YOUR ADVANTAGES AT A GLANCE

**High system power:** 5 kW support fast and demanding inspection tasks in industrial applications

**High inspection sensitivity:** Cracks, laps and defects in welds, solder joints and other joints become visible through thermal anomalies

**Non-contact heating:** Inductive energy input enables inspection without direct contact with the component surface

**Flexible excitation:** Application-specific inductors adapt the heating pattern to different geometries and joints

**Robust system design:** Air-cooled 19" technology for use in production and quality assurance

**Easy integration:** DisplayImg supports system control, evaluation and integration into automated inspection processes

# TECHNICAL INFORMATION

|                             |                                               |
|-----------------------------|-----------------------------------------------|
| <b>INSPECTION METHOD:</b>   | Induction thermography                        |
| <b>SYSTEM:</b>              | ITvis 5000 MHF                                |
| <b>POWER:</b>               | 5 kW                                          |
| <b>FREQUENCY RANGE:</b>     | 15–60 kHz                                     |
| <b>COOLING:</b>             | Air-cooled                                    |
| <b>POWER SUPPLY:</b>        | 400 V AC, 16 A                                |
| <b>HOUSING:</b>             | 19", 4 U                                      |
| <b>OVERLOAD PROTECTION:</b> | Yes                                           |
| <b>INDUCTOR:</b>            | Application-specific                          |
| <b>SIGNAL GENERATOR:</b>    | External ESG                                  |
| <b>DETECTION:</b>           | Infrared camera                               |
| <b>SOFTWARE:</b>            | DisplayImg Professional, ITvis module         |
| <b>FIELDS OF USE:</b>       | Production, quality assurance and maintenance |

## ACCESSORIES



### EDECAM

High-speed LWIR infrared camera for active thermography



### DISPLAYIMG SOFTWARE

Modular software platform for thermography and automated inspection

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