

PTVIS 6000

Pulse thermography for fast layer and material inspection



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Characterize material properties and near-surface defects without contact. PTvis 6000 uses active pulse thermography for fast non-destructive inspection of layers, coatings and composite materials. A short, intense light pulse with up to 6 kJ heats the component surface while a fast infrared camera captures the subsequent heat flow.

Delaminations, porosity, corrosion beneath coatings and variations in layer thickness influence the thermal response and can be visualized through software-based evaluation. Pulse phase analysis also enables quantitative characterization of material properties such as layer thickness or thermal diffusivity. The compact system is suited for flexible inspection tasks in quality assurance, laboratory and industrial environments.

For more information about PTvis, visit the [edevis website](http://www.edevis.com).

YOUR ADVANTAGES AT A GLANCE

Short inspection times: A high-energy flash pulse enables rapid thermographic acquisition of an entire inspection area

High defect contrast: Near-surface delaminations, porosity and material inhomogeneities become visible through disturbances in heat flow

Quantitative material analysis: Layer thickness, porosity and thermal diffusivity can be determined from the thermal response

Non-contact inspection: Thermal excitation and infrared detection are performed without direct contact with the component

Robust evaluation: Pulse phase analysis reduces the influence of varying surface properties and non-uniform heating

Flexible applications: Suitable for coatings, paints, fiber-reinforced composites and adhesive bonds

TECHNICAL INFORMATION

INSPECTION METHOD:	Active pulse thermography
ENERGY OUTPUT:	6 kJ
OUTPUTS:	— 2 × 3 kJ — 1 × 6 kJ total output
FLASH LAMP:	Linear high-power flash lamp with reflector
LAMP HOUSING:	Aluminum
POWER SUPPLY:	230 V AC, 50 Hz, 16 A
DIGITAL INTERFACE:	Potential-free contact
HOUSING:	Compact housing
FUSE PROTECTION:	1 × 16 A
TEMPERATURE PROTECTION:	Yes
COOLING:	Integrated fan
SAFETY:	Integrated safety switch
OPERATING TEMPERATURE:	-10 °C to +50 °C
CONNECTION CABLES:	— Flash lamp cable: 5 m — ESG connection cable: 0.5 m
DETECTION:	Infrared camera with MWIR or LWIR detector
SOFTWARE:	DisplayImg Professional, PTvis module

ACCESSORIES



EDECAM

High-speed LWIR infrared camera for active thermography



DISPLAYIMG SOFTWARE

Modular software platform for thermography and automated inspection



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