

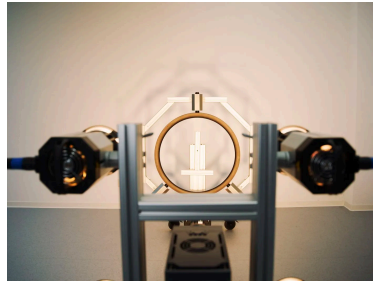
OTVIS NT

Scalable lock-in thermography for large-area inspection tasks



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Scalable lock-in thermography for large-area inspection tasks



More excitation power for demanding large-area inspections. The OTvis NT systems use optically excited lock-in thermography for non-contact inspection of fiber-reinforced composites and other materials. With system power levels of 4, 6 or 8 kW and up to four halogen lamps, the excitation can be adapted to the component size and inspection task.

The robust 19" systems are suitable for reproducible inspections in laboratory and production environments as well as for integration into automated inspection processes. Typical applications range from the detection of delaminations and inclusions to the inspection of adhesive bonds, corrosion and wall thickness.

YOUR ADVANTAGES AT A GLANCE

Scalable excitation power: 4, 6 or 8 kW variants for different component sizes and inspection tasks

Large-area inspection: Up to four halogen lamps provide homogeneous thermal excitation across large inspection areas

Depth-resolved defect detection: Hidden defects become visible through their influence on heat flow

Modular system design: Lamps, camera and signal generator can be configured to suit the individual inspection application

Suitable for automated inspection: 19" system design enables integration into industrial inspection setups

Reproducible evaluation: DisplayImg supports phase image analysis, evaluation and documentation of inspection results

ACCESSORIES



EDECAM

High-speed LWIR infrared camera for active thermography



DISPLAYING SOFTWARE

Modular software platform for thermography and automated inspection

TECHNICAL INFORMATION

INSPECTION METHOD:	Optically excited lock-in thermography
POWER:	— 4 kW / 2 × 2 kW (OTvis 4000) — 6 kW / 3 × 2 kW (OTvis 6000) — 8 kW / 4 × 2 kW (OTvis 8000)
HALOGEN LAMPS:	— 2 × EHL (OTvis 4000) — 3 × EHL (OTvis 6000) — 4 × EHL (OTvis 8000)
CONTROLLER HOUSING:	— 19", 3 U, half installation depth (OTvis 4000) — 19", 3 U (OTvis 6000 / 8000)
LAMP HOUSING / REFLECTOR:	Anodized aluminum, coated reflector
POWER CONNECTION:	— 400 V AC, 16 A, 50/60 Hz (OTvis 4000 / 6000) — 400 V AC, 32 A, 50/60 Hz (OTvis 8000)
SIGNAL CABLE:	ESG3 OTvis Extension Cable, 1 m
LAMP CABLE:	Robust lamp connection cable with screw locking, 5 m
POWER CABLE:	— CEE 400 V / 16 A, 5 m (OTvis 4000 / 6000) — CEE 400 V / 32 A, 5 m (OTvis 8000)
TRIPOD:	— 1 × Manfrotto with T-Bar for 2–3 lamps (OTvis 4000 / 6000) — 2 × Manfrotto with T-Bar for 4–6 lamps (OTvis 8000)
INTEGRATED CONTROL:	No
SOFTWARE:	DisplayImg Professional, OTvis module
ADDITIONAL SCOPE OF SUPPLY:	— Filter packages — Transport and storage bag — ESG OTvis Extension



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