

NON-DESTRUCTIVE TESTING TECHNOLOGY

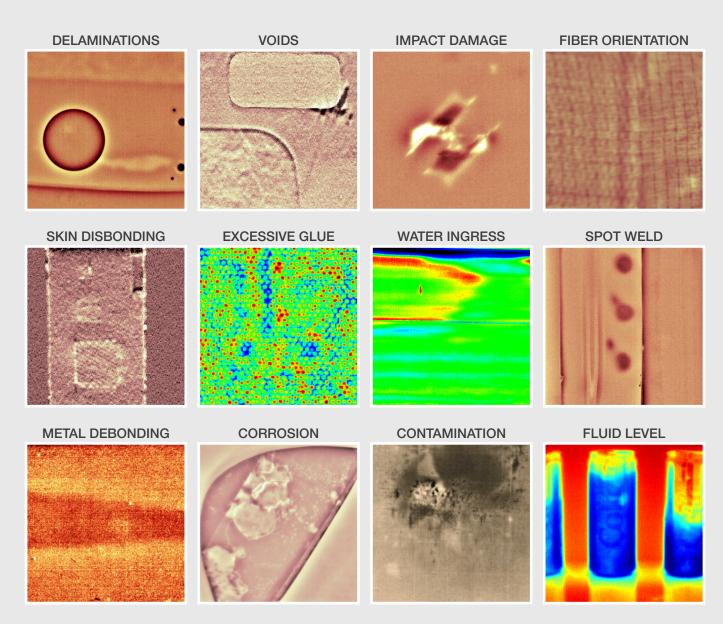


ACTIVE THERMOGRAPHY

NON-CONTACT, SAFE & FAST IDENTIFICATION OF DEFECTS

Opgal's® NDTherm®, an active thermography technology, is an innovative, non-destructive solution for various applications. Combined with state of the art proprietary image processing algorithms, Opgal® offers the NDT marketplace a breakthrough in flaw detection capabilities. Opgal's® NDTherm® detects defects in various materials and shapes such as CFRP, GFRP, sandwich and hybrid structures porous materials, and metal structures. It is capable of inspecting materials at various stages of the manufacturing process. NDTherm® thermography is fast, safe and easy to use technology, suitable for large surfaces and complex shapes inspection, including applications where access is only available from one side of the structure. Opgal's® NDTherm® can be utilized in manufacturing processes, and service and maintenance for damage assessment and repair.

NDTHERM® CAN DETECT: |



NDTherm[®] can also detect: Paint Adhesion and Thickness, Thermal Diffusivity, Porosity, Wall Thickness and Thinning and more...



NDTherm® AU

Fully automated large scale complex shape and parts inspection system. Integrates seamlessly into production lines.

Sub-system	Description	Value
Measuring unit	Inspection area	400x500mm max.
	Operating distance	500mm max
	Min flaw size	2mm min
	Thermal camera	640x480 17µm
	Frame rate	8.3/30 Hz
	Thermal sensitivity	< 30 mk
Manipulator	Maximum reach	1,610mm
	Number of axes	6
	Position repeatability	0.1mm
General	Test mode	Reflection
	Size	2.5x2.5x3.5m
	Operating SW	Windows 7



NDTherm® FX

Fixed configuration for production line or laboratory application. Various detection algorithms, enhanced reporting tools. Offers reflection and transmission configurations.

Sub-system	Description	Value
Measuring unit	Inspection area	400x500mm max
	Operating distance	500mm max
	Min flaw size	2mm min
	Thermal camera	640x480 17µm
	Frame rate	8.3/30 Hz
	Thermal sensitivity	< 30 mK
General	Test modes	Reflection & Transmission
	Size	0.7x1.2x2.0m
	Power	220VAC / 16A
	Operating SW	Windows 7
	Computer	Desktop



NDTherm® NT/LF

Portable system for fast and easy inspection. Simple setup and usage. "Single button" operation. Enhanced reporting tools.

Sub-system	Description	Value
Measuring unit	Inspection area	400x500mm
	Operating distance	300-500mm
	Min flaw size	2mm min
	Thermal camera	5m
	Frame rate	8.3/30 Hz
	Thermal camera	640x480 17μm
	Frame rate	NT: 30 Hz LF: 8.3 Hz
	Thermal sensitivity	< 30 mk
General	Test modes	Reflection
	Size	450x450x250mm
	Weight	8 Kg
	Computer	Laptop
	Operating SW	Windows 7

APPLICATIONS

AVIATION & AEROSPACE



MARITIME







ASSEMBLY LINES

INDUSTRIAL

WIND TURBINES







ABOUT OPGAL

Opgal® is a leading global provider of innovative infrared thermal imaging systems and advanced vision and surveillance solutions. Using state-of-the-art thermal and active-imaging technologies, Opgal® leverages advanced electro-optics and image processing expertise to create high performance, versatile visualization hardware and software products for a variety of markets. Founded more than 30 years ago, Opgal® is a major supplier to leading industry players, as well as corporate and professional customers in over 60 countries.



