

# MULTIDES SYSTEM

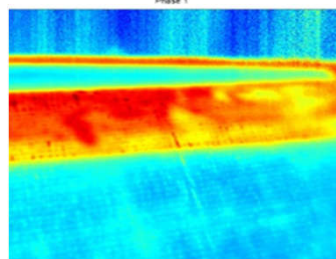
Modular thermographic system for CND



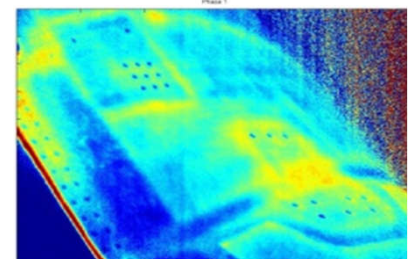
The MultiDES System (MDS) is a modular system for performing NDT (Non-Destructive Examinations) with active thermographic techniques on different types of materials, using the most appropriate excitation source. An electronic control unit makes possible to generate different independent waveforms and effectively manage the most common sources of thermal excitation for rapid and effective execution of the diagnostic test.

## Industrial applications

An instrument designed for structural integrity analysis and non-destructive testing of components and structures. Designed as a modular device, MDS allows the identification of a wide variety of defects for different types of materials. In the industrial field, MDS is used in various production sectors, from aeronautics to automotive, from wind power to manufacturing, with a widespread use in the diagnostics of components, even large ones, in the analysis of thin welds and welded joints, in investigating the integrity of coatings and measuring thickness, etc.






Wind blade tip phase map



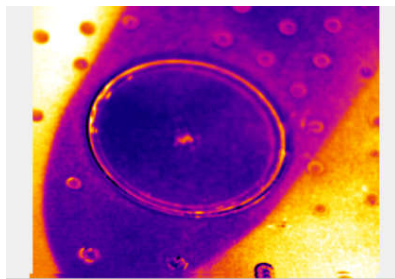
Thermographic analysis of aircraft structural detail

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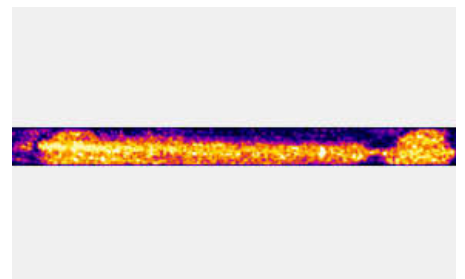
Thermal excitation sources	Configurations	Features	Benefits
	<b>MultiDES Halogen</b>	This configuration finds its main application in the inspection of components with low thermal diffusivity. It proves thus ideal in the structural analysis of composite materials and in the detection of the characteristic defects of these materials such as gas cavities, delaminations and cracks.	<ul style="list-style-type: none"> <li>➤ Cheap.</li> <li>➤ Easy to use.</li> <li>➤ Precise.</li> <li>➤ Usable with various inspection methods.</li> </ul>
	<b>MultiDES Flash</b>	This configuration finds its main application in the inspection of composite materials or welded joints and for the detection of surface cracks. It proves thus ideal in the structural analysis of metallic materials such as thin sheets and welded seams.	<ul style="list-style-type: none"> <li>➤ Rapid testing.</li> <li>➤ Usable with various inspection methods.</li> </ul>
	<b>MultiDES Laser</b>	This configuration ensures greater ductility, thanks to the possibility of modulating power and dimension of the beam, guaranteeing a better geometric resolution. Ideal on metals and for weld analysis.	<ul style="list-style-type: none"> <li>➤ Easy.</li> <li>➤ Precise.</li> <li>➤ Multi-purpose.</li> <li>➤ Possibility of integration into the production line.</li> </ul>



Thermographic analysis on boat keel - Halogen lamps



Thermographic analysis on aeronautical component - Flash lamps



Thermographic analysis of a weld - Laser