

# DEFECT DTECT



Defect Dtect is a small, modular and versatile shearography system comprising an illumination module, an imaging module and a control unit. The system provides whole-field, non-contact, non-destructive testing for rapid wide-field inspection of composites, bonded structures and other advanced materials. Loading the target using either thermal or mechanical load allows the user to assess the structure of a component. The Defect Dtect system enables a rapid detection of defects such as delaminations, disbonds, impact damage and other sub-surface abnormalities. The control unit houses the processor and allows for storage and transportation of the head modules.

illumination Module	DDIM – 150	DDIM – 250
Area Illuminated @ 1m range*	300X300mm	500x500mm
Wavelength	532nm	
Power Output	150mW	250mW
Dimensions	260x105x107mm	
Weight	3kg	
Laser Classification	2M	2M
Mount	¼ UNC	



Imaging Module	DDSM – 15
Detection Image Resolution	1280x1024
Frame Rate	25 fps
Imaging focal length	16mm, 35mm, 50mm
Dimensions	180x110x120mm
Weight	2Kg
Mount	¼ UNC



Control Unit	Defect Detect
Processing Time	
Fringe monitoring	Live
Phase wrapped images	<3s
Phase unwrapped imaging	<3s
Information Outputs	
Documentation	PDF report function
Image Format	AutoSaves JPEG
Video	Configurable resolution
Data Output	USB 2
Interface Device	Wireless keyboard
Loading Methods	Thermal, Mechanical
System Dimensions	600x450x300mm
Umbilical Length	3m
Power Supply	110 – 240 VAC
System Power Consumption	200W
Operating Temperature	5° – 40°



\* Dependent on surface finish/colour