

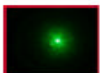
Vacuum Hood Specifications

The Vacuum hood allows for the identification of abnormalities in systems under a constant vacuum. Software enables the user to quickly pinpoint discontinuities. Data can then be stored for off-line processing or saved in a library. The system is designed to minimise dependency on the operator's technique in obtaining results.

At the heart of the system is an industrial PC which controls all functions from the vacuum motor to the image processing. For convenience of use all of the operational functions of the instrument can be controlled from switches on the hood itself thus permitting use by a single operator.

Target Surface	Designed for use on composite structures of up to 150 mm thickness
Reading Type	In- and out-of-plane strain
Surface Profile	Can read surfaces with continuous curvature of up to 750mm radius
Coverage	Can obtain readings up to 50mm from the edge of the target
Surface gloss	Matt or semi-gloss surface preferred.
Standard Operating Temperature	5 – 30 °C
Standard Operating Humidity	20 – 90 %
Frame Rate	30 frames per second
System Control	All operating functions controlled from the hood assembly
Computer Image Processing Time	Fringe monitoring is real time. Off-line image analysis in 5 seconds
Image Area	270mm x 270mm
Image Resolution	1024 x 1024 pixels
Sensitivity Range	Optional operator adjustment available
Laser Wavelength	650nm (red light)
Instrument size	400mm diameter footprint, 300mm high
Instrument Weight	5.5 kg
Voltage Requirements	220 - 240V (110V Optional)
Power Consumption	1500W
Laser Safety Classification	Class 1 laser system conforming to BSEN 60825-1
Options	Close-up imaging system Harness for operator LCD monitor on hood 110V electrics

This is a typical specification – please contact us for further details



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