

Phone: 1-949-916-4111
 Email: info@omscorporation.com

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OMS LaserScan LS01 Scanning Laser Vibrometer

OMS LaserScan LS01 Scanning Vibrometer Specifications

The OMS LaserScan LS01 scanning vibrometer is based on a patented electro-optical configuration developed by MetroLaser. The system consists of a portable laser sensor head and electronic controller. The laser sensor head includes a laser, frequency modulator, photo-detector, color CCD camera, and two computer-controlled scanning mirrors. The electronic controller has both a demodulated velocity output and a 10.7 MHz frequency modulated signal output. The front of the controller has a signal strength indicator, two selectable velocity ranges and an array of low pass filter options. A comprehensive software package, including modal analysis, is available. The software registers the user-selected target, controls the mirrors, performs dithering if needed, collects and analyzes data, and displays 2D and 3D animations.

Velocity Range

→ 5 $\mu\text{m/s}$ to 800 mm/s

Vibration Frequency Range

→ 0.1 Hz to 20 kHz

Working Distance

→ .5 m to 5 m

Optics

→ Collimated (No Focusing Needed)

Surface Reflectivity Enhancement

→ Typically None Required

Signal Output

→ Analog Velocity and 10.7 MHz FM Outputs

Dimensions

→ Laser Head: 36 x 25 x 18 cm

→ Electronic Controller: 43 x 33 x 10 cm (standard 19-in rack)

Weight

→ Laser Head: 10 kg

→ Electronic Controller: 6.2 kg

Low Pass Filters

→ 1,2,5,10,20 kHz

Output Voltage (max)

→ ± 10 Volts

Laser

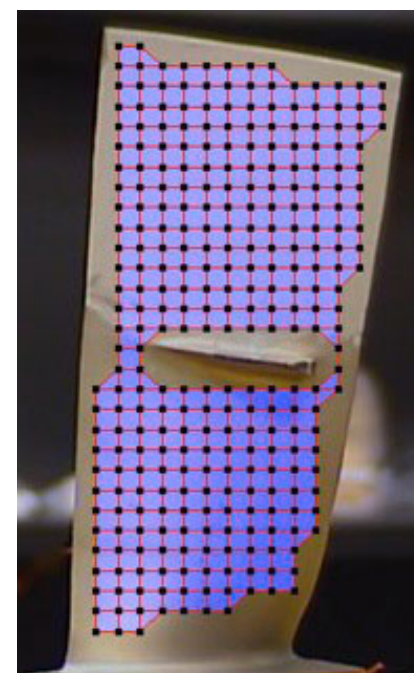
→ 780 nm, <15mW, Class IIIb

→ 650 nm, <1mW, Class II

Scan Range

→ $\pm 20^\circ$ each axis

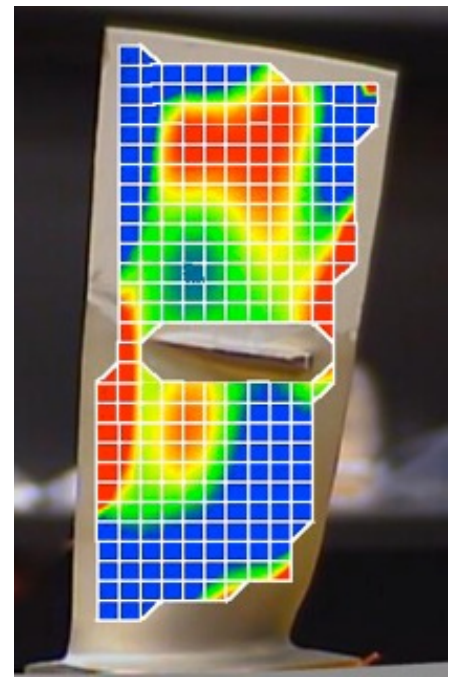
Beam Size



→ 1mm diameter

Power Requirement

→ 110V/220V



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