Customized Products

Scanning / Long-range laser Doppler vibration meter

Our long-range laser Doppler velocimeter is a custom-designed product tailored to meet specific customer needs. It features a 1550nm laser wavelength and a power output less than 30mW. The output mode can be selected based on the application, and it includes a feedback-based automatic focusing optical system, as well as Bluetooth control for smartphones and a computer-based video aiming system.

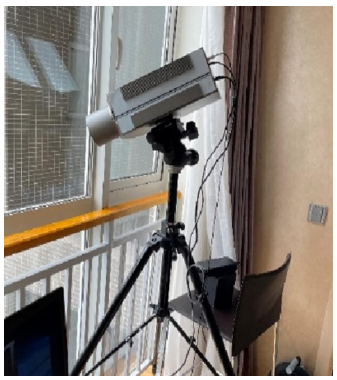


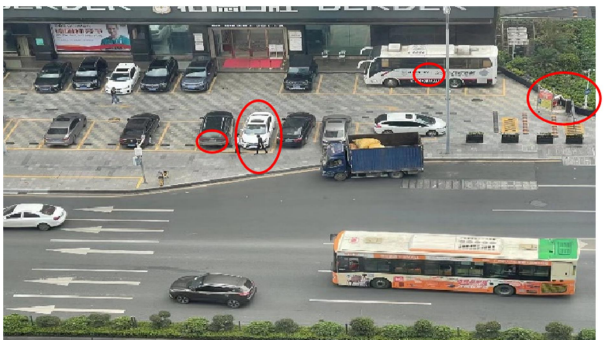
Parameters

- Measures distances of 20-200 meters
- Frequency range: 20Hz - 20kHz
- Speed range: 10mm/s - 2m/s
- Automatic focus system
- Optional post-processing

Long-range laser Doppler velocimeter

The long-range laser vibration meter features a custom-designed external red laser interference optical path, enabling vibration measurement up to 200 meters. Additionally, a custom-designed long-range listening device is available to meet the specific needs for audio monitoring in both indoor and outdoor environments.

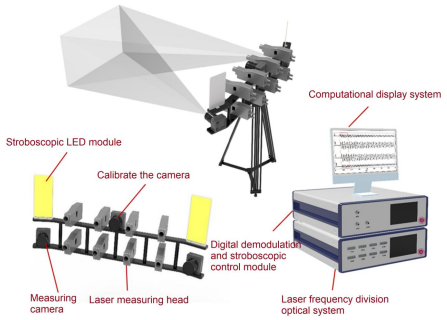




Customized vibration testing: 2023, April, a listening experiment 120 meters away in Guangzhou

Laser-based image fusion vibration measurement system

The trend towards larger, lighter, and more complex structures has driven the demand for high-speed, high-spatial resolution, and high-resolution vibration measurements. Laser and image fusion technology with high temporal and spatial resolution, and high measurement resolution, overcomes hardware limitations and represents the future direction of vibration measurement systems.



Customized vibration measurement scheme: October 2022, Shenzhen – laser image fusion vibration measurement experiment

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