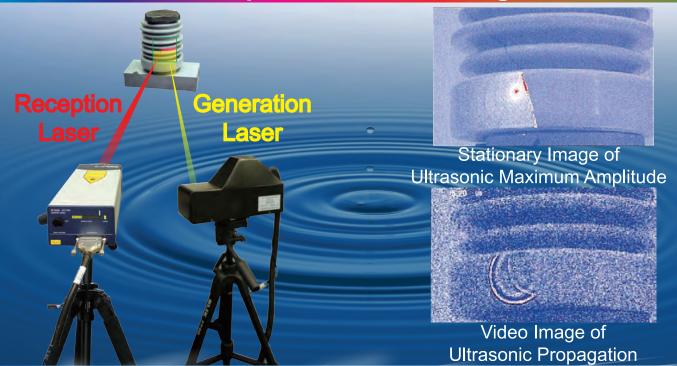
Laser Ultrasonic Visualizing Inspector



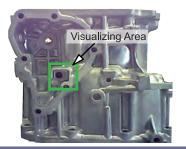


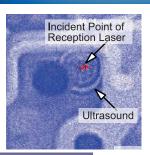
TSUKUBA TECHNOLOGY CO., LTD.

LUVI-LL2

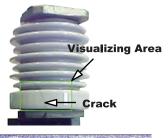
High Speed AD Conversion

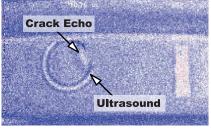






ransmission case





Insulation



Measurement of microscopic parts,hot surfaces,elevated spots,narrow sections, conveyor belt equipped moving parts and etc., are possible with fully noncontact inspection.



■ Feature Specification

[Instant Flaw Detection by Watching Video]

Watch video image of ultrasound propagated in test object and detect flaw instantly, by irradiating and scanning laser to the test object.

[Available for Complex-shaped Objects]

Due to noncontact scanning, defect detection of complex-shaped objects such as curved surfaces, gaps, and narrow sections is possible.

[Fast Visualizing Inspection and Defect Detection for Wide Area]

Fast visualization for wide area is possible with fast scanning by the combination of laser and galvanometer scanner.

[No Optical Adjustment]

Easy measurement as no optical adjustment is necessary.

[Principal Application]

NonDestructive Testing in industry sector of automobile, alrplane, training, ship, steelmaking,oil plant,gas plant,and power plant,material such as Fiber Reinforced Plastic: Elucidation of wave propagation mechanism: Performance evaluation of ultrasonic probe; Evaluation of structural integrity,etc.

Visualizing Range: Within 50°

Distance to object: 0.1m~2m(~5m with additional lens) Scanning Frequency: Max.2kHz(200×200 points in 20sec.)

Scan Laser Power: Above 2mJ Pulse Width: 2ns~50ns

A/D Sampling Rate: Max. 250MS/s(2GS/s: Option) Display Image: Ultrasonic Propagation Image, B-Scope Image (Speed Image),

A-Scope Waveform, etc.

Crack, Corrosion, Void and Separation of Inspection Object:

Compound Materials, Metal, Ceramics and Resin, etc.

Max. Thickness: about 100mm(Metal)

Min. Size of Defect: 0.1mm(5mm Thick Metal)

Laser Doppler Vibrometer

■ Software

Option

- Laser Wavelength: 633nm, Visible
 - Laser Classification: Class 2 Helium-neon,<1mW
- Displacement Measurement: 50nm/V.
- Max. Frequency: 20MHz

- Automatic Creation of Inspection Report Web Camera Image Superimposition
- Image Analysis
- Robust Against Ambient Temperature Dust Protection
- Battery Unit

Configuration

Power unit Laser unit Scan unit Vibrometer Control Unit Vibrometer Sensor Head Dimensions: W×H×D(mm)275×140×345 275×225×375 290×160×85 450×360×150 120×80×345 Weight: 6.7kg 14.2kg 2.5kg 10kg 3.4kg

Max. Electricity Consumption: AC100V/350W

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