

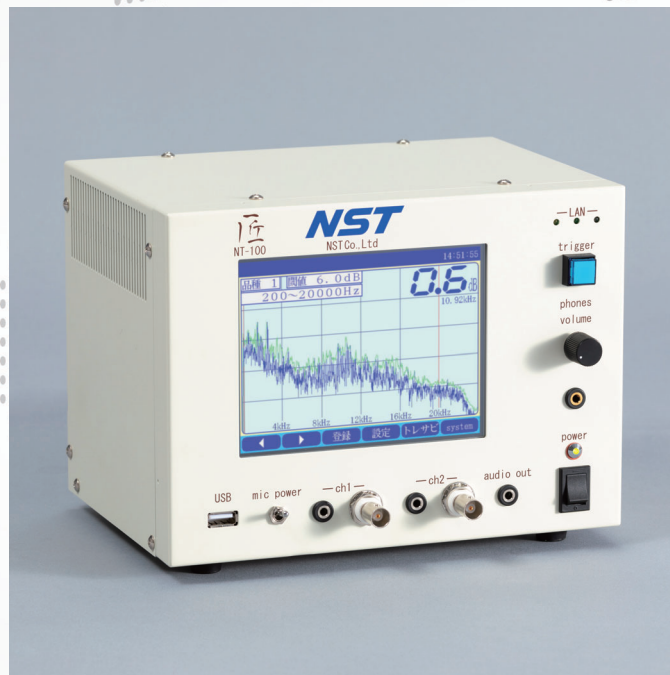
Automating abnormal sound inspections will improve productivity.

The normal sound (or vibration) of the object to be inspected is registered in advance as a master, the measurement data of the object is compared with the master, and a pass/fail judgment is made based on whether there is any abnormal sound (or vibration).

Screen display of judgment results, I/O output of judgment results, and storage of traceability data are available.

*1 Judgment results may be affected by environmental noise.

*2 Testing with a demo unit is possible.



Challenges of manual inspection



Hearing test has vague criteria.



Hearing varies from person to person.



Requires skilled workmanship.

Effects of NT-100 introduction



Quantification of judgment criteria.



Stabilization of pass/fail decisions.

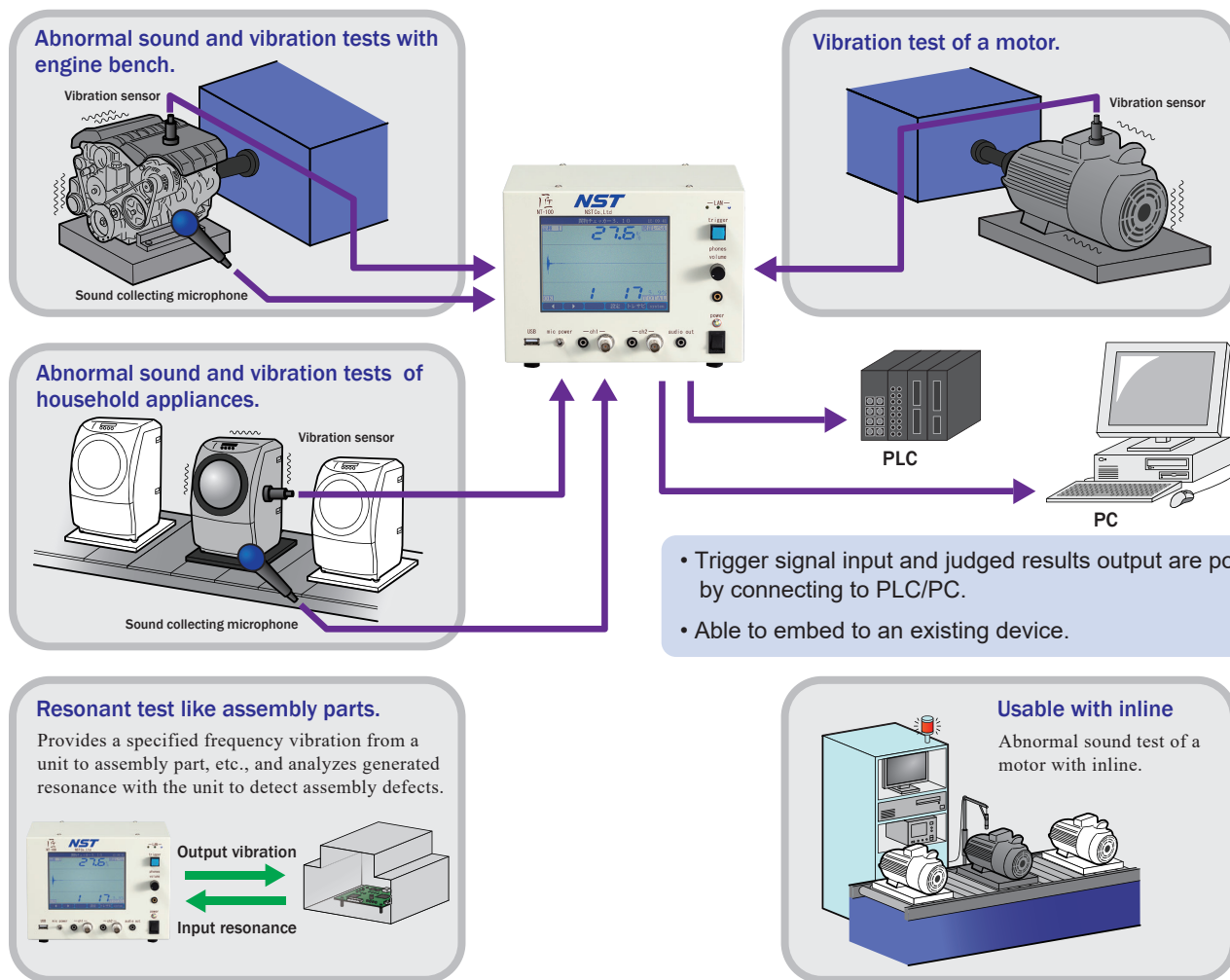


Uniformity of judgment quality.

Application examples

- ✓ Detection of abnormal and fluctuating sound in motor inspection.
- ✓ Detection of engine knocking noise.
- ✓ Detection of abnormal vibration during gear and bearing rotation.
- ✓ Detection of abnormal noise during oil pump operation.
- ✓ Detection of abnormal noise and vibration during sunroof operation.

Measurement, detection, judgment, and inspection of abnormal sounds (or abnormal vibrations) .



Specifications

Item	Description
A/D	No. of channels: 2 CH (Microphone input, vibration sensor input, etc.) 24 bit delta-sigma AD converter
D/A	No. of channels: 1 CH (Test signal, warning sound, etc.) 24 bit delta-sigma DA converter
Sampling frequency	48 kHz max.
Input format	Microphone input and vibration sensor input
Display	640 x 480 Color TFT monitor (Touch panel)
Display content	FFT results, judged result values, and parameters
General input and output	I/O: 8 bit/8bit, Measuring start trigger input and judged results output
External I/F	Ethernet 1CH and USB
Memory expansion media	USB memory and large capacity non-volatile memory
Power source	Primary: AC 100V, Internal I/O power source: DC 24V
External dimensions (mm)	W220×D160×H170 *projections not included
Weight	3.0kg

< Development / Manufacturing >

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