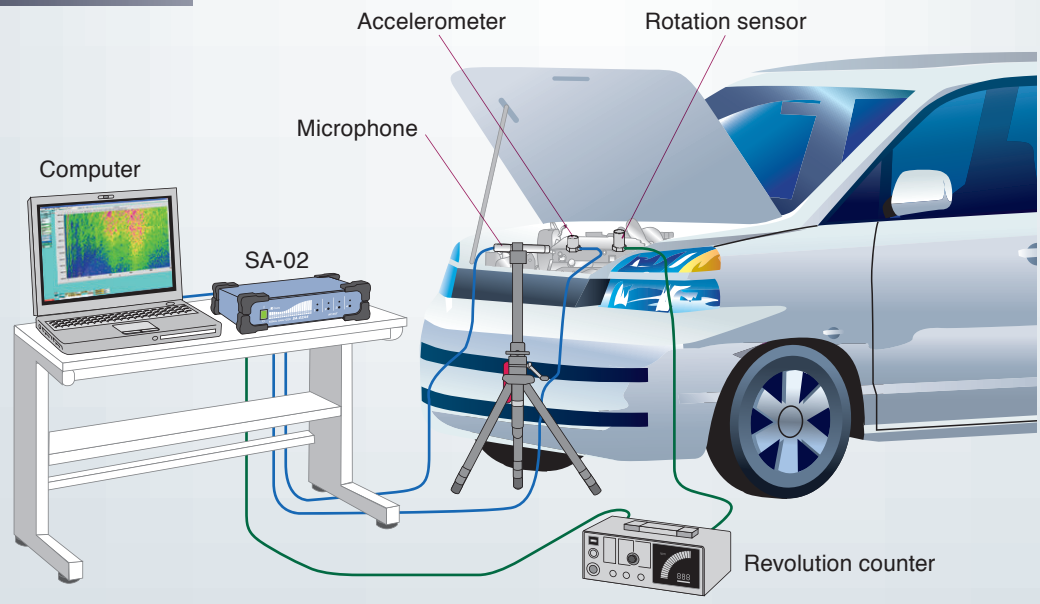
RION

Tracking Analysis Measurement System

When analyzing vibration and noise phenomena, examining the rotational frequency or order can be useful in determining conditions related to the natural frequency of structural parts and components.
This system uses the Multi-Channel Signal Analyzer SA-02 to analyze the rotation order ratio, based on rotation data (from the TACHO input) and sound/vibration data recorded simultaneously.
Available display formats include contour mapping, Campbell diagram, waterfall plot, rpm-level display and more.
The recorded sound and vibration waveform data can be converted into WAVE files and be reproduced as actual sound.

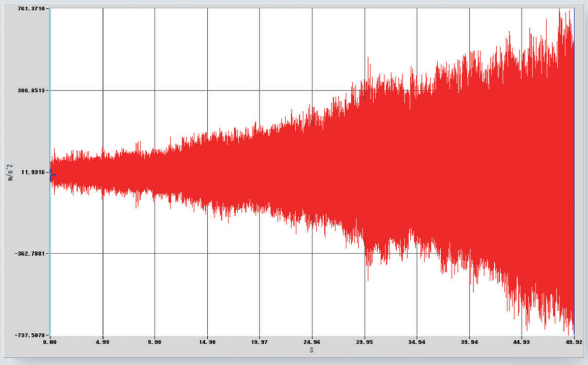
System Diagram



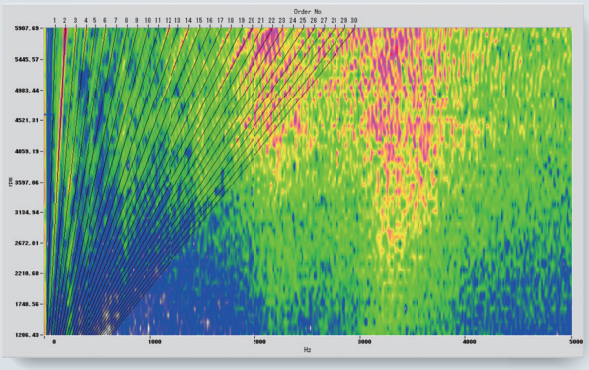
Equipment configuration

Product	Model	Quantity
Multi-Channel Signal Analyzer	SA-02A4 or SA-02M	1
Computer for SA-02		1
Tracking Analysis Software	CAT-SA02-Order	1
Piezoelectric Accelerometer (with integrated amplifier)	PV-90T/91C/97I/41	1
Accelerometer cable	VP-51 series	1
BNC Adapter	VP-52C	1
Microphone/Preamplifier	UC-52/53A/57/59+NH-22A, UC-52T/57T/59T	1
BNC-BNC coaxial cable	EC-90 series	1
Revolution counter (Tachometer)		1
Rotation sensor		1

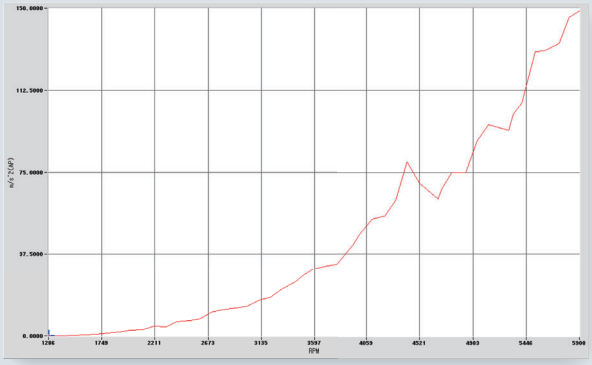
Measurement result examples



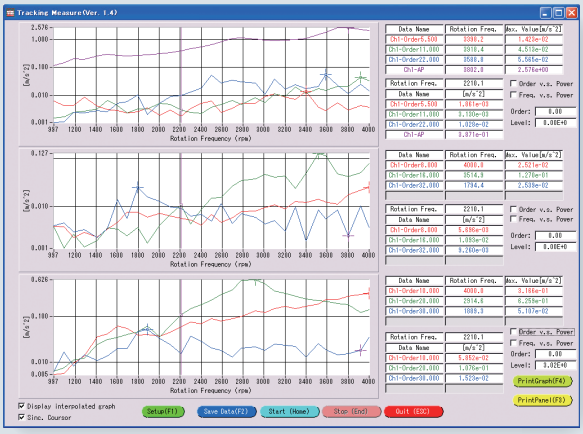
Measurement data (vibrations)



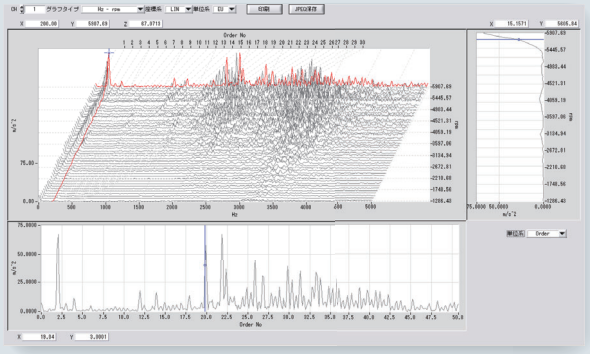
Order - Level - RPM (Contour map)



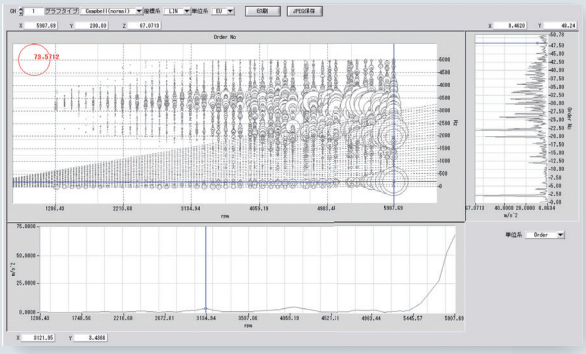
RPM - Level (Specified order display)



RPM - Level (Simultaneous display of multiple orders)



Order - Level - RPM (Waterfall plot)



Campbell diagram

Application examples

Noise and vibration testing for automobiles, vibration testing for automotive parts, vibration and noise testing for various equipment

Applicable standards, reference material

None

Distributed by:

RION CO., LTD.
https://rion-sv.com/

3-20-41, Higashimotomachi, Kokubunji, Tokyo 185-8533, Japan
Tel: +81-42-359-7888 Fax: +81-42-359-7442

This leaflet is printed with environmentally friendly UV ink.

1302-1 1904.P.D