RION

Waveform Recording Function and Processing With AS-70

The Waveform Recording Program SX-A1WR for the RIONOTE Multifunction Measurement System enables storing signals for sound and vibration as well as various other types of voltage signals as WAVE files.

By connecting a microphone, piezoelectric accelerometer, sound level meter, vibration level meter or vibration meter to the RIONOTE, various sound and vibration waveforms can be recorded easily. A rotation speed signal or DC signal from a temperature sensor or similar can also be recorded.

WAVE files produced in this way by the RIONOTE can then be further processed and analyzed in detail on a computer, using the Waveform Processing Software AS-70. This includes sound pressure level and vibration level processing, FFT analysis, octave band analysis and more.

The SX-A1WR software allows recording of voice memos and setting markers during measurement. These are accessible in the AS-70 software together with the recorded waveform, so that a particular noise or vibration event can be pinpointed quickly, for smooth analysis processing.

System Diagram

Equipment configuration

Product		Model
Multi-function Measuring System	2 channel/4 channel FFT package	SA-A1FTB2/SA-A1FTB4
	2 channel/4 channel octave package	SA-A1RTB2/SA-A1RTB4
SD card (512 MB/2 GB/32 GB)		MC-51SD1/20SD2/32SP3
Sound Level Meter, Vibration Level Meter, Microphone, Piezoelectric Accelerometer etc.		
Voice memo microphone		BSHSM03BK
Tacho sensor		
Waveform Analysis Software		AS-70
Computer		

Sample screen for waveform recording with SX-A1WR

Example of SX-A1WR data analysis screen produced with AS-70

Sample screen for SX-A1WR data analysis and overlay display with AS-70

Application examples

- **Sound level/sound pressure level measurement**
- **Octave band and 1/3 octave band analysis**
- **Vibration level and vibration acceleration level measurement**
- **Rotation speed measurement**
- **Vibration acceleration, velocity, and displacement measurement**
- **DC signal (temperature sensor etc.) measurement**
- **FFT analysis**

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