GREEN

RION

Waveform Analysis Software

AS-70

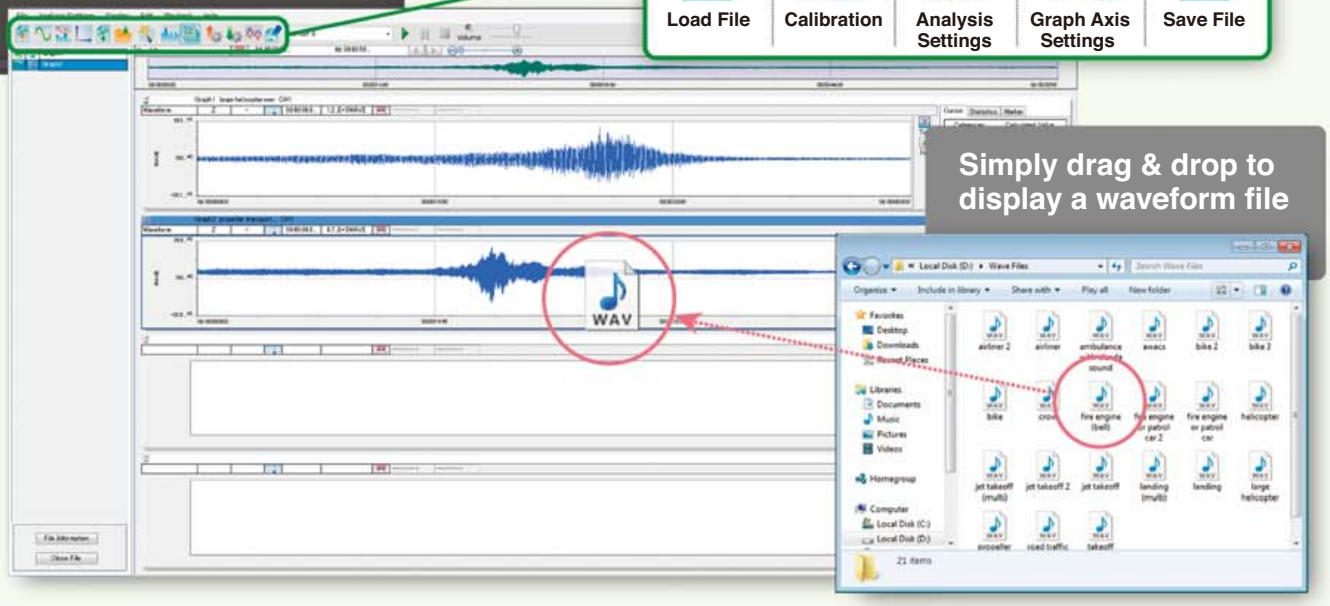
Completely Renewed Analysis Software from Rion

The Waveform Analysis Software AS-70 reads data from WAVE files and offers a wide range of functions, including graph display, level processing, frequency analysis (FFT analysis and octave band analysis), file output, and playback.

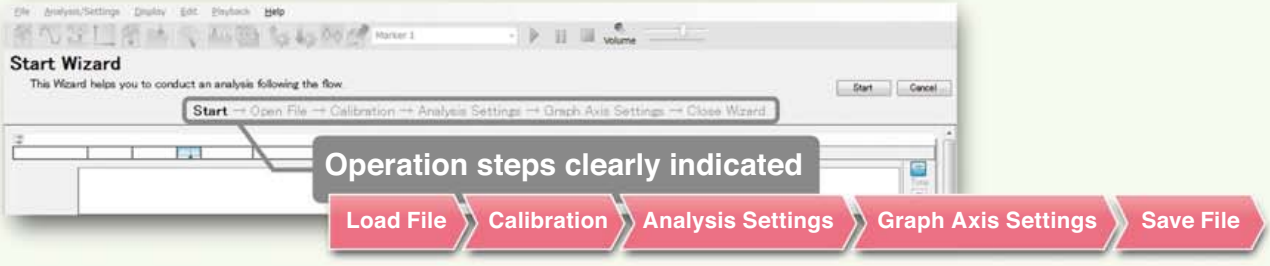
Easy and precise operation | *Vastly improved processing speed* | *Simultaneous analysis of multiple files* | *User marker function* | *Digital volume control*

Easy and precise operation

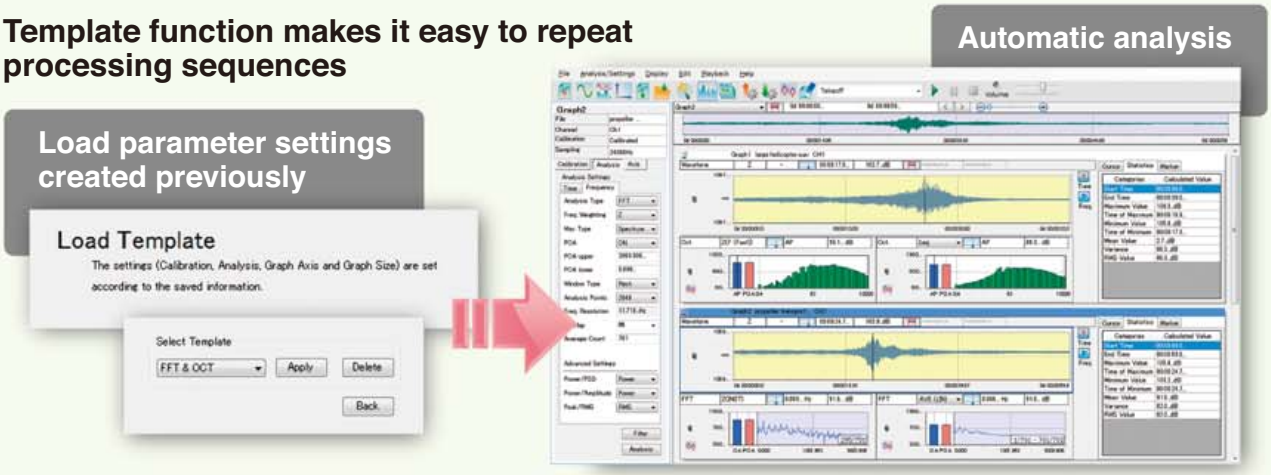
Tool bar layout reflects operation sequence



Convenient wizard function for first-time users



Template function makes it easy to repeat processing sequences



Vastly improved processing speed

Stress-free analysis of large data volumes

Comparison of processing time to previous product.

Time from file reading to processing result display

Previous product
DA-20PA1

AS-70

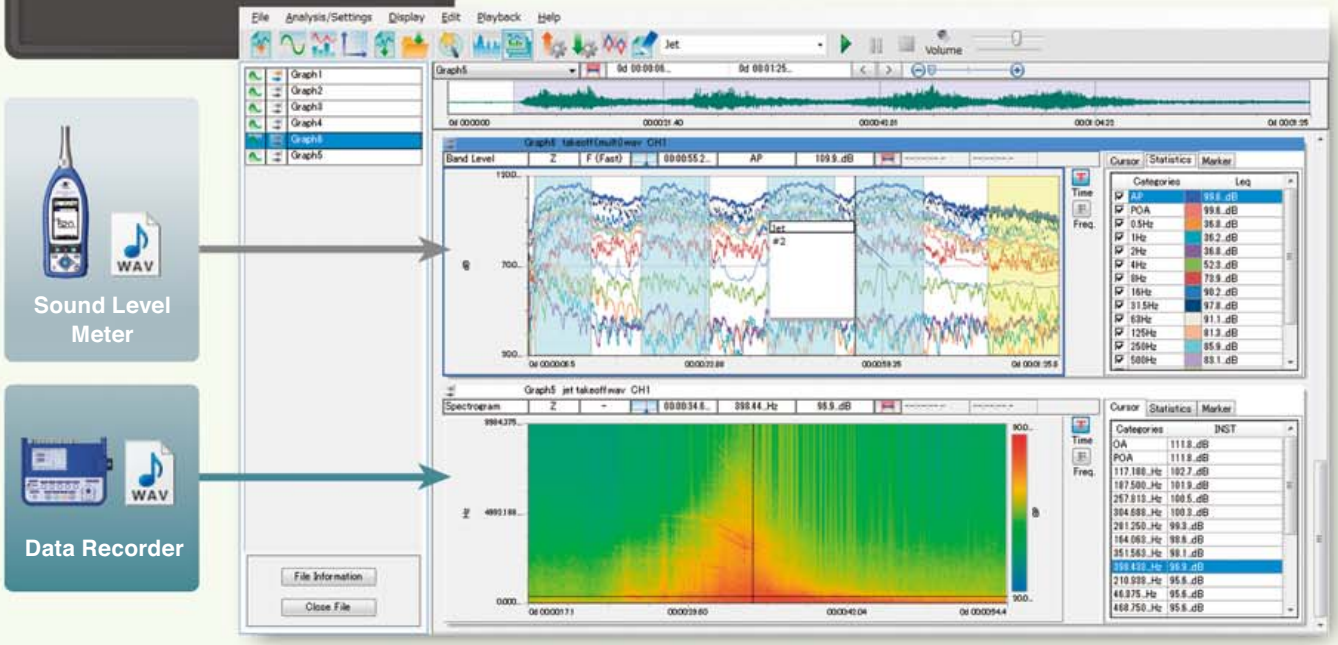
Processing time
1/5※

※Measurement conditions

Operation environment	CPU Core i5 3.2 GHz, 4 GB
	Quantization: 16 bit, Number of channels: 4
Data file recorded time	1 h 24 min.
Processing time	6 min

Simultaneous analysis of multiple files

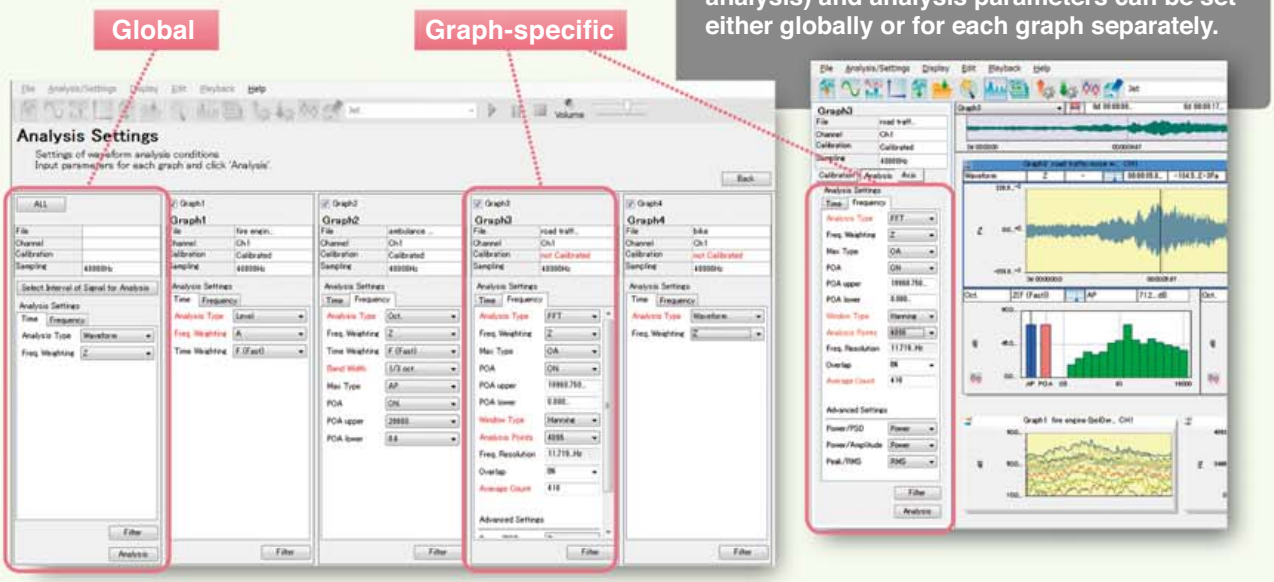
WAVE files from different sources, such as a sound level meter and data recorder, and from multiple locations can be loaded and analyzed simultaneously. A variety of operations can be performed easily and with high processing speed, such as graphical display, level processing, sound playback and FFT and octave band analysis. The results can be saved in various formats.



Setting method

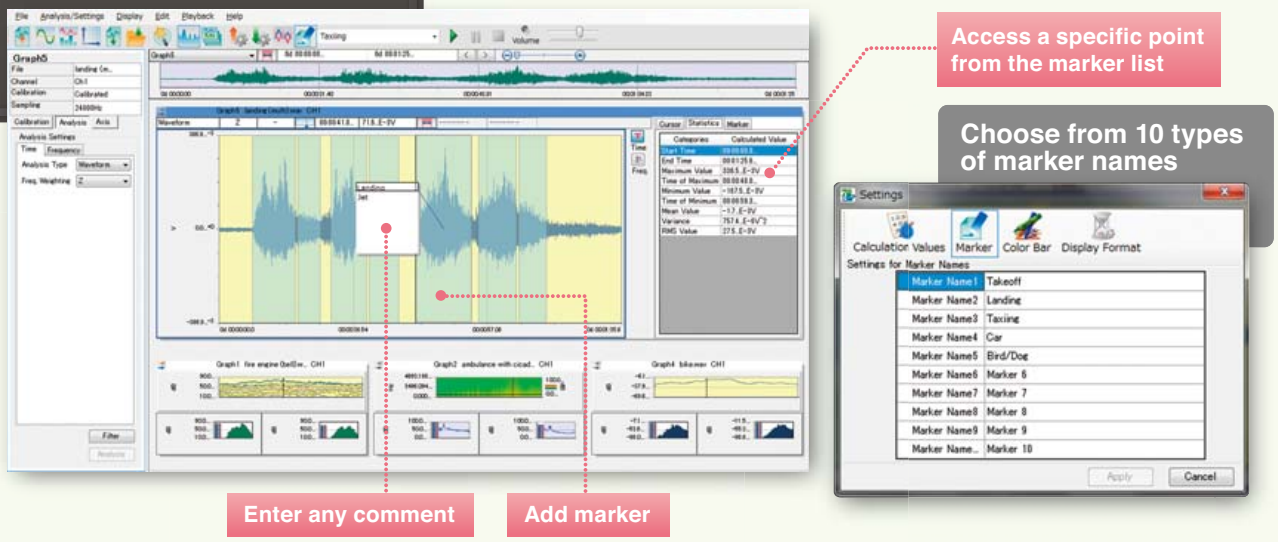
Settings can be made globally or for each graph individually

When operating with multiple graphs, the analysis type (octave band analysis, FFT analysis) and analysis parameters can be set either globally or for each graph separately.



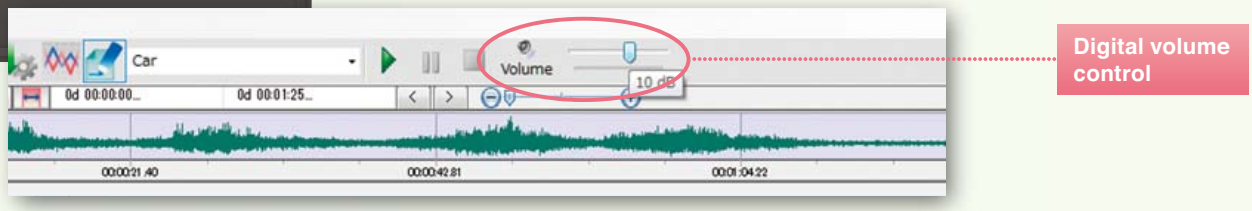
User marker function

Markers with comments can be placed on the time graph.



Digital volume control

When playing back data with low recording level (because level range was too big, or bit word length too long), the volume may be very low, making the sound difficult to hear. The digital volume control lets you play such files at a higher volume.



Supported models (WAVE files recorded with the following products can be used)

RIONOTE | NX-42WR | VX-55WR | NX-28WR | SA-78WR | DA-20/40/21 | VA-12

General WAVE format files can also be opened (with some restrictions regarding sampling frequency and number of channels)

Specifications

Applicable standards		IEC 61672-1:2013, JIS C 1509-1:2017 (Frequency weightings A, C, Z; Class 1) ISO 7196:1995 (Frequency weighting characteristic G) IEC 61260-1:2014, JIS C 1514:2002 (Octave-band and 1/3 octave-band fi lters, Class 1) JIS C 1510:1995 (Frequency weightings for vertical and horizontal vibration)
Supported file format	WAVE format	Sampling frequencies [Hz] : 64 k/51.2 k/48 k/32 k/25.6 k/24 k/16 k/12.8 k/12 k/5.12 k/2.56 k/2.4 k/1.28 k/1.2 k/1 k/512/256/240 Bit word length : 16 bit/24 bit
Time graphs	Display types	Amplitude waveform, level waveform, band level, spectrogram
	Frequency weighting characteristics	Z, A, C, G, C to A, L_{vz} (vertical characteristics), L_{vxy} (horizontal characteristics)
	Time weighting characteristics	10 ms, F (Fast), 630 ms, S (Slow), 10 s
Frequency graphs	Display types	Octave band analysis, FFT analysis
Octave band analysis	Bandwidth	Octave band: 0.5 Hz to 16 kHz (16 bands) 1/3 octave band: 0.4 Hz to 20 kHz (48 bands)
FFT analysis	Window functions	Rectangular, Hanning, Flat-top, Hamming
	Number of analysis points	32 to 65 536 (base-2)
	Overlap	0 to 99 %
	Data view	Power spectrum, power spectrum density (Power/Amplitude, Peak/RMS selectable)
Statistical processing	Amplitude waveform	Maximum value, minimum value, average value, variance, effective value
	Level waveform/octave analysis	L_{eq}, L_E, L_{max}, L_{min}, L_N (5 types)
	FFT analysis	Linear average, maximum value

File save function	Save formats	WAVE format, text format
	Successive calculation results	Results saved as text at calculation intervals (1 ms to 24 h)
Other functions	Differential and integral filter	1st order integration, 2nd order integration, 1st order differential, 2nd order differential
	HPF, LPF	Cutoff frequency: any setting Slope: 6 dB/12 dB/18 dB/24 dB (per octave)
	Overlay	Two frequency spectra can be shown as a superimposed (overlay) graph, with optional difference indication
	Real-sound playback	Play, stop, pause, digital volume control
	Clipboard copy	Screen, graph, list

Recommended operation environment

CPU	Intel Core i5 2 GHz or faster
RAM	2 GB or more, 4 GB recommended
HDD	20 GB or more (free space), 100 GB or more recommended
Display	XGA (1024 x 768 pixels) resolution or higher
Supported operating systems	Microsoft Windows 7 Professional 32 bit/64 bit, 8.1 Pro 64 bit, 10 Pro 64 bit

JCSS JCSS 0197

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