

<Differences between Vibration Analyzer VA-14 and VA-12 >

(Device comparison chart)

	VA-14	VA-12
Dimensions	Approx. 240.7(H) × 91.9(W) × 47.9(D) mm (With protective cover)	Approx. 238(H) × 113.5(W) × 44(D) mm (With protective cover)
Weight	Approx. 665 g (Including supplied accessories and batteries)	Approx. 850 g (Including supplied accessories and batteries)
External power supply	AC adapter (NE-20P) USB Type-C connector	AC adapter (NC-99 series)
AA batteries	× 6 (Operating time : Approx. 12 hours)	× 8 (Operating time : Approx. 12 hours)
SD card capacity	Max. 32 GB	Max. 2 GB

(Vibration Meter Mode)

	VA-14	VA-12
Parameter	[Acceleration] : RMS m/s ² , PEAK m/s ² , C.F. [Velocity] : RMS mm/s, EQPEAK m/s [Displacement] : EQp-p mm, EQPEAK m/s ² , RMS mm (μmも可)	[Acceleration] : RMS m/s ² , PEAKm/s ² , C.F. [Velocity] : RMS mm/s [Displacement] : EQp-p mm
Simultaneous Measurement of Crest factor (Acceleration)	○	○
Time-Level graph display of vibration values	○	—
Filters (HPF, LPF) can be set for acceleration, velocity, and displacement, respectively	○	— (The filters are the same for each measurement)
Vibration severity of filter (Velocity, ISO 2954:2012)	○	—

(FFT Analyzer Mode)

Peak detection functions	OFF、TOP10、PEAK10	OFF、TOP10
Simultaneous saving of linear average value and maximum value	○	— (Store individually)
Display of total measurement time according to the average numbers	○	—
Envelope	○	○

< Superior function program VX-14S comparison chart >

	VX-14S Installation	No installation of VX-14S
Microphone and preamplifier connection function	Allows sound measurement by connecting a microphone. [Operates in FFT mode]	—
Communication function (LAN/USB)	By connecting via either USB or LAN, communication with a computer is possible, and control of the device along with the following functions can be used via commands: <ul style="list-style-type: none"> ● Acquisition of display values (vibration value, time waveform, FFT analysis value) ● Continuous acquisition of instantaneous values(vibration value: 100 ms, FFT analysis value *) ● Acquisition of calculated values (vibration value: calculation cycle 10 s/1 m/user setting, FFT analysis value: after calculation) * Available when connected to LAN	Allows control of the device and transfer of files (CSV, WAVE) stored on the SD card. * VX-14S is required to obtain measurement data
Auto store function	Instantaneous values and calculated values can be recorded continuously at the same time. [Operates in vibration meter mode]	—
Long time waveform recording function	Records vibration waveforms in WAVE format. Maximum recording time: 200 hours Records all Auto Store measurement sections. ※Sampling frequency 12.8 kHz, SD card 32 GB [Operates in vibration meter mode] (Operations in the right column are also possible)	Records vibration waveforms in WAVE format. Recording time: 10 s at analyzed frequency 20 kHz ※Up to 1 MB can be stored only during FFT analysis [Operates in FFT mode]
Peak calculation function	Calculates true peak values not only for acceleration but also for velocity and displacement. [Operates in vibration meter mode]	Calculates true peak values for acceleration. [Operates in vibration meter mode]
General-purpose input function	AC voltage signals can be input to vibration meters and vibration amplifiers. (The sensor drive power supply can be turned off.)	—