

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

## (Device comparison chart)

	VA-14	VA-12
<b>Dimensions</b>	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)
<b>Weight</b>	Approx. 665 g (Including supplied accessories and batteries)	Approx. 850 g (Including supplied accessories and batteries)
<b>External power supply</b>	AC adapter (NE-20P) USB Type-C connector	AC adapter (NC-99 series)
<b>AA batteries</b>	× 6 (Operating time : Approx. 12 hours)	× 8 (Operating time : Approx. 12 hours)
<b>SD card capacity</b>	Max. 32 GB	Max. 2 GB

## (Vibration Meter Mode)

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

## (FFT Analyzer Mode)

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

# < Superior function program VX-14S comparison chart >

	VX-14S Installation	No installation of VX-14S
<b>Microphone and preamplifier connection function</b>	Allows sound measurement by connecting a microphone. [Operates in FFT mode]	—
<b>Communication function (LAN/USB)</b>	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"> <li>● Acquisition of display values (vibration value, time waveform, FFT analysis value)</li> <li>● Continuous acquisition of instantaneous values (vibration value: 100 ms, FFT analysis value *)</li> <li>● Acquisition of calculated values (vibration value: calculation cycle 10 s/1 m/user setting, FFT analysis value: after calculation)</li> </ul> * 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
<b>Auto store function</b>	Instantaneous values and calculated values can be recorded continuously at the same time. [Operates in vibration meter mode]	—
<b>Long time waveform recording function</b>	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]
<b>Peak calculation function</b>	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]
<b>General-purpose input function</b>	AC voltage signals can be input to vibration meters and vibration amplifiers. (The sensor drive power supply can be turned off.)	—