((



Vibration Analyzer

VA-14



oxdot Single channel analyzer also capable of microphone connection -

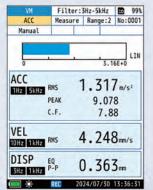
Beyond trust to a new frontier in measurement RION's New Vibration Analyzer VA-14

Vibration Meter Mode

Allows simultaneous measurement of acceleration, velocity, displacement, and acceleration crest factor

New

■ Filters (HPF, LPF) can be set for acceleration, velocity, and displacement, respectively



Vibration meter mode

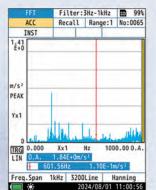
FFT Analyzer Mode

- Real-time analysis frequency 20 kHz
- Time waveform display and spectrum display with up to 3 200 spectral lines. Envelope processing also supported.

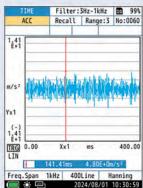
New Simultaneous saving of linear average value and maximum value

New Two types of peak detection functions

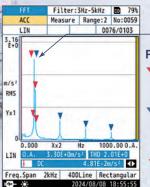
- Displays top 10 spectra with "TOP10"
- Displays top 10 peaks with "PEAK10"



Spectrum display (3 200 lines)



Time waveform display



110 Hz

Peak detection example

▼ TOP10

Detects spectra around 110 Hz

▼ PEAK10

Detects spectra at odd multiples of 110 Hz

▼ are not displayed on the actual screens. It is only shown in the catalog.

New

Piezoelectric Accelerometer PV-57I (Supplied)

Equipped with "function keys"

Assign functions and perform operations with one push



Function Key

New

LAN terminal

Connect to the network –

Allows control of the device and transfer of files (CSV, WAVE) stored on the SD card *VX-14S is required to obtain measurement data



Neu

USB Type-C connector

Compatible with USB power supply —
Long-term measurements are possible even in locations without power outlets

Easy to hold with one hand. Ideal for field measurements.

Achieved 30 % weight savings from previous model VA-12 Approx. 850 g \rightarrow Approx. 660 g (Including supplied accessories and batteries)

Take your VA-14 on-site for a wider range of use





After installation, it can be used as a 2 GB SD card.

Installing the VX-14S adds the following function



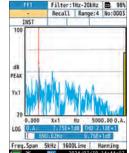
Sound Measurement

(Operates in FFT mode)

[Microphone and preamplifier connection function]

Allows sound measurement by connecting a microphone. Covers both vibration and sound evaluation with just one VA-14 unit.





Measurement screen

FFT analysis separates noise and vibration. This can be used to evaluate the quietness of machines, detect abnormal noise, and consider countermeasures.

Target fields

Noise and vibration analysis of automobiles, home appliances, etc.



Enhanced connection with communication devices

[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:

- Acquisition of display values (vibration value, time waveform, FFT analysis value)
- Continuous acquisition of instantaneous values (vibration value: 100 ms/1 s, 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

Serial interface Utilize measurement data from VA-14 to build pass/fail evaluation systems on production line

Quality assurance and production technology for automobiles, home appliances, etc.

and vibration monitoring systems. *Software for the computer is required separately.



Long time vibration recording (Operates in vibration meter mode)

[Auto store function]

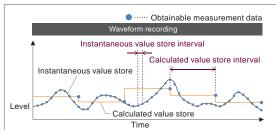
Instantaneous values and calculated values can be recorded continuously at the same time.

Allows measurement of time-based changes in vibration values.

[Long time waveform recording function]

Records vibration waveforms in WAVE format. (Select one from acceleration, velocity, or displacement) Recorded data can be used to perform frequency analysis on a computer.

Maximum recording time: 200 hours



PV-571

LAN/USB

Evaluate changes in vibration and the effects of vibration when load conditions, such as the rotational speed of equipment and pump water volume are changed.

Design and development of equipment and machinery, quality assurance



Accurate evaluation of machinery condition

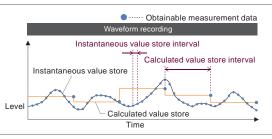
[Peak calculation function]

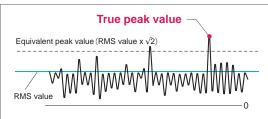
Calculates true peak values not only for acceleration but also for velocity and displacement

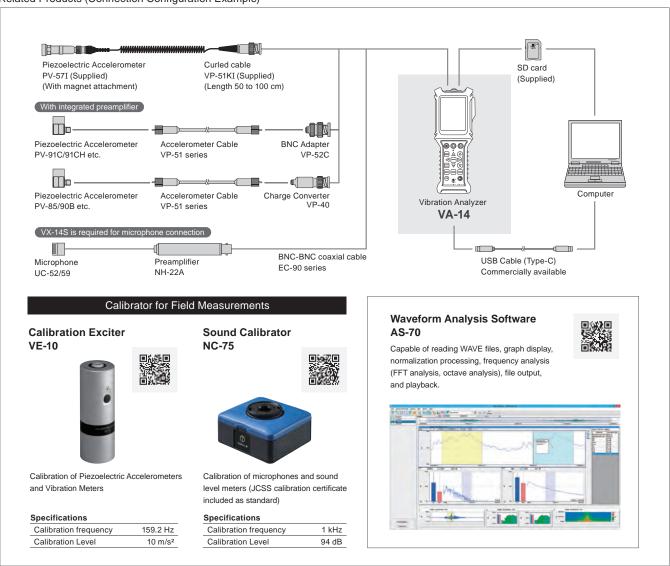
In addition to the equivalent peak value which is calculated from RMS multiplied by $\sqrt{2}$, the true peak value of the vibration waveform can be calculated, allowing for more accurate evaluation.

Helps detect machine and equipment failures in early stage, improving production efficiency

Equipment maintenance, machine design and development











RION CO., LTD. is recognized by the JCSS which uses ISO/IEC 17025 as an accreditation standard and bases its accreditation scheme on ISO/IEC 17011. JCSS is operated by the accreditation body (IAJapan) which is a signatory to the Asia Pacific Accreditation Cooperation (APAC) as well as the International Laboratory Accreditation Cooperation (ILAC). The Quality Assurance Section of RION CO., LTD. is an international MRA compliant JCSS operator with the accreditation number JCSS 0197.

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