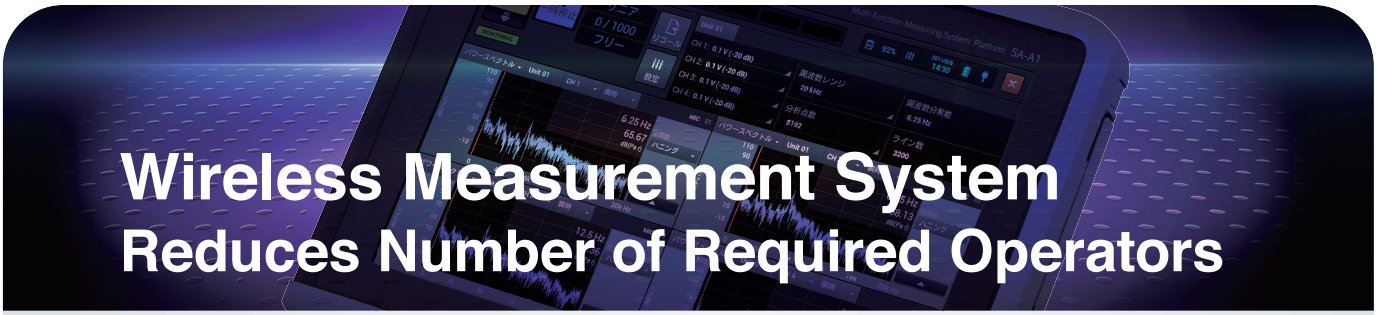
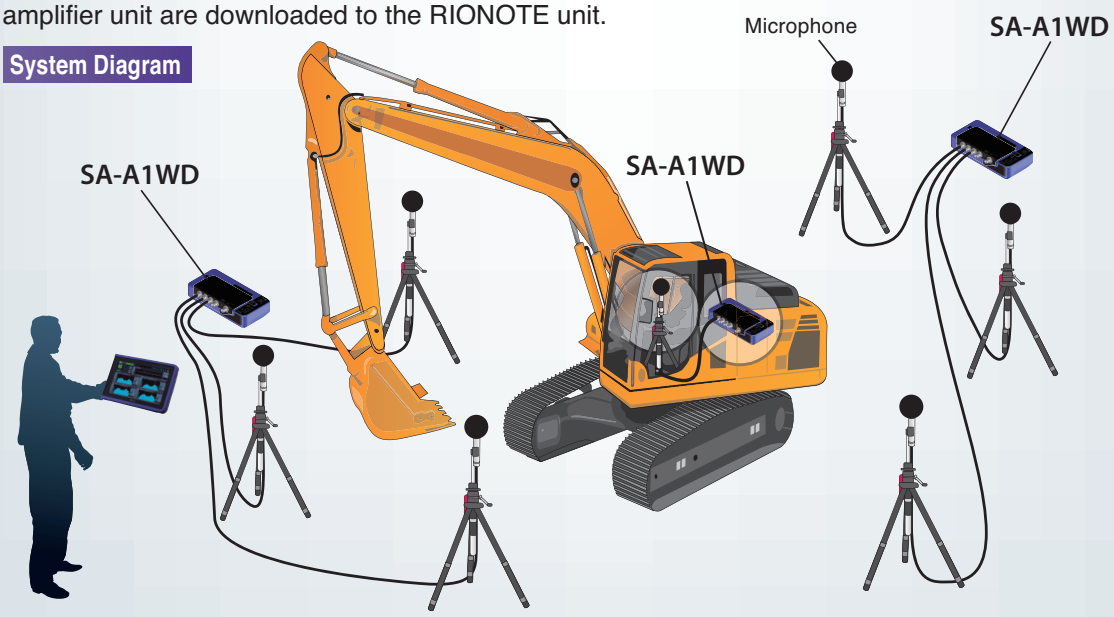


Wireless Measurement System Reduces Number of Required Operators

Using the RIONOTE Multifunction Measurement System together with the Wireless Dock SA-A1 WD allows reducing the number of operators needed to realize a measurement. For example, in a conventional setup for measuring noise and vibrations of construction machinery, one operator normally has to drive the machinery while other operators handle the measurement equipment. By contrast, the wireless capability of the RIONOTE makes it possible for the machinery operator to also control the measurement. The need for setting up long transmission cables is also eliminated, thereby greatly reducing the time required for the measurement.
The handy notebook size and light weight (approx. 1.2 kg) of the RIONOTE unit, along with battery driven operation allows it to be used at the driver position of the machinery. While being transmitted wirelessly, the measurement data are also saved on an SD card in the amplifier unit of the wireless dock. This prevents data loss in case of an interruption of the radio connection during measurement. When the measurement is completed, the measurement data in the amplifier unit are downloaded to the RIONOTE unit.

System Diagram



Equipment configuration

Product	Model
Multi-function Measuring System (2 channel/4 channel octave package)	SA-A1RTB2/SA-A1RTB4
Wireless Dock	SA-A1WD
2 channel/4 channel Amplifier	SA-A1B2/SA-A1B4
SD card (512 MB / 2 GB / 32 GB)	MC-51SD1/20SD2/32SP3
1/2 inch electret condenser microphone	UC-59
Preamplifier	NH-22A
BNC-BNC coaxial cable	EC-90 series
1/2 inch microphone holder	UA-90
Sound level meter tripod	ST-80

＊This system supports sound pressure level measurement but not power level calculation.
Support for power level calculation is available as a custom option. Please contact us for details.

Measurement screen examples

Multi-channel 1/3 octave band analysis　Real time analysis sample screen

Waveform analysis screen

Application examples

- **Measurement of noise and vibrations in construction machinery**
- **Measurement of noise and vibrations in automobiles**

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