**RION**

Wireless Measurement System
Eliminates Need for Cabling and Allows Remote Operation

Using the RIONOTE Multifunction Measurement System together with the Wireless Dock SA-A1 WD greatly facilitates setup because there is no more need to deploy cables before the measurement and retrieve them afterwards. Furthermore, equipment transport requirements are also reduced. Difficult measurement locations, for example on both sides of a railroad track or a road no longer present a problem when the wireless option is used. The handy notebook size and light weight (approx. 1.2 kg) of the RIONOTE unit make it easily portable, and battery driven operation further enhances flexibility. In a scenario such as making railroad noise measurements on cold days, having to spend long periods of time outdoors can create hardship for operators. In such a case, being able to monitor and control the measurement equipment from an indoor location or from inside a vehicle will greatly improve working conditions.

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

Microphone

Microphone

2/4 channel Amplifier

Wireless Dock

2/4 channel Amplifier

Wireless Dock

RIONOTE
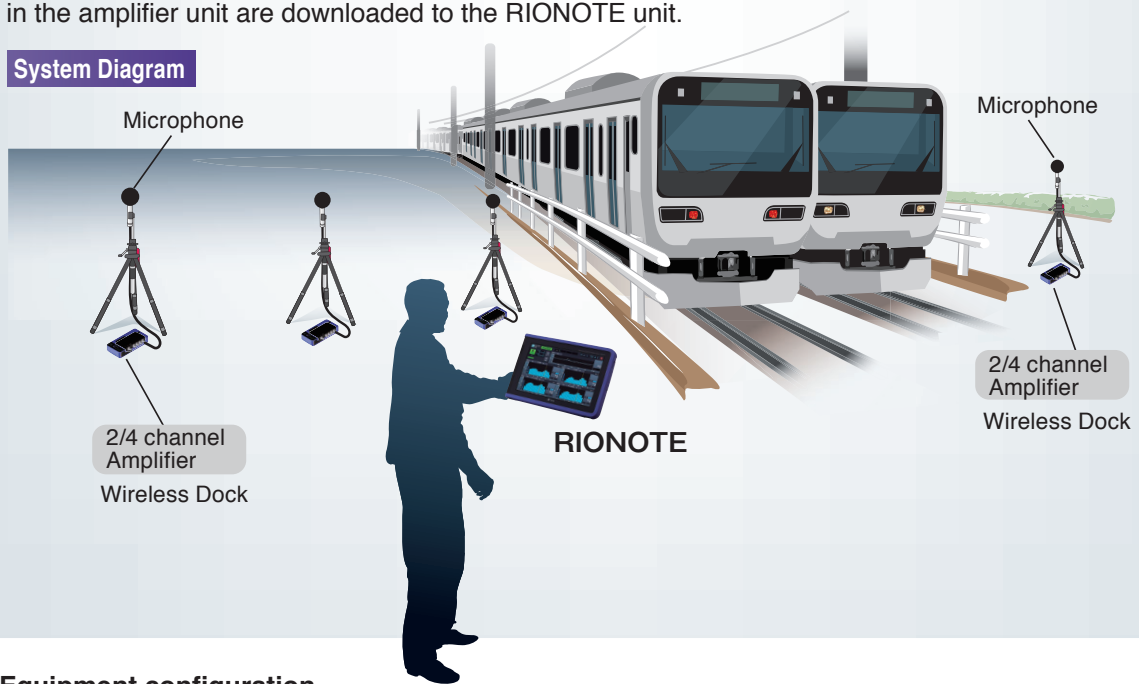
Equipment configuration

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

Measurement screen examples

Example of multi-channel octave band analysis and real-time analysis (using the auto store function of SX-A1RT)

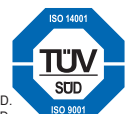Waveform recording screen example

Application examples

- **Railroad noise**
- **Road traffic noise**
- **Factory noise**
- **Noise related to construction work**

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