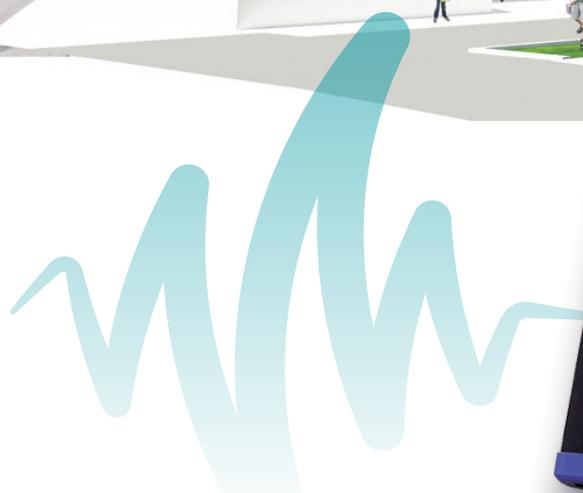




# NK-A1BA for RIONOTE

Discover the new Ntek application for Rionote, the first device in the world able to perform simultaneous measurements for building acoustics without cable obstructions.



Performing simultaneous measurement without cable obstructions

The first device in the world able to perform simultaneous measurements for building acoustic thanks to the wireless channels of Rionote, allowing measurements without cables obstruction. Multiple-channels let user characterize contemporary receiver and emitter rooms. Usability guaranteed by compact design and light weight. Intuitive operation by the touch panel higher than other products.

**NKA1BA application for Building acoustic measurement program** - Wireless Multichannel Acquisition of acoustic parameters for reverberation time and insulation by airborne, façade and impact. Building acoustic analysis in conformity with standards **UNI EN ISO 140** and **UNI EN ISO 16283**.

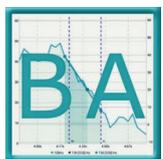
NK-A1BA allows to export data related to the measurements in order to develop analysis. Ntek application let user export data by means of an SD card to proceed with the elaborations. It is possible to use EKOS software for predicting sound insulation to finally get a pdf report on building acoustic according to the standards requirements. EKOS third module is included with the NK-A1BA to produce a pdf report according to standards about the measurements. Moreover, to get a proper and complete report by defining not just the building project, but also the provisional project plans it is recommended to use the EKOS suits software full version.



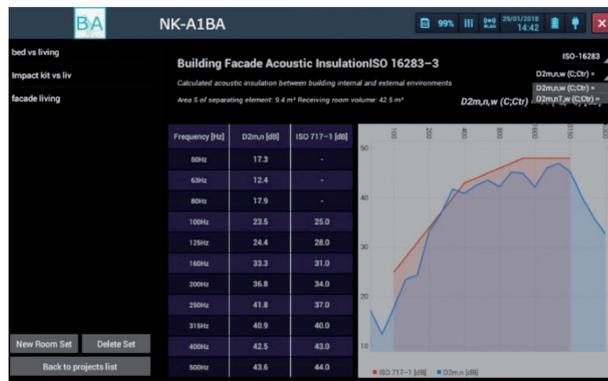
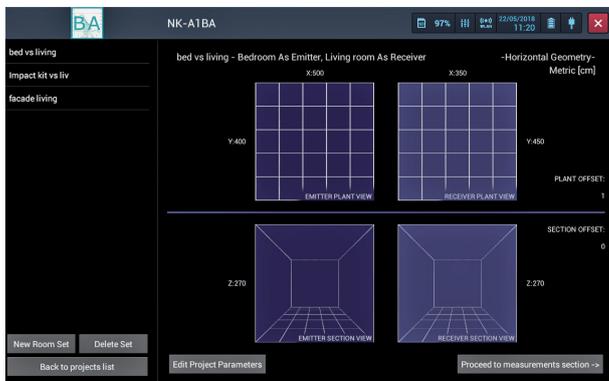
**OPTION**  
Octave band analysis



**PRE-INSTALLED**  
Waveform recording

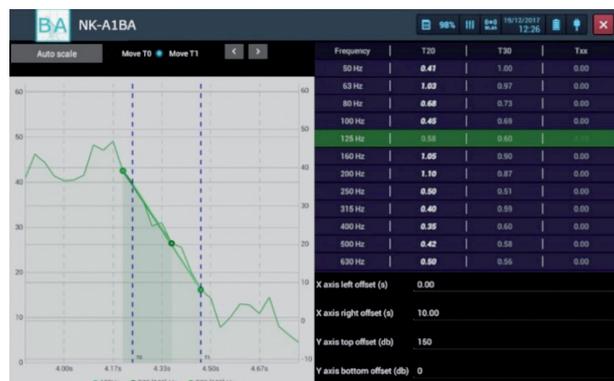


**NK-A1BA**  
Building  
Acoustic

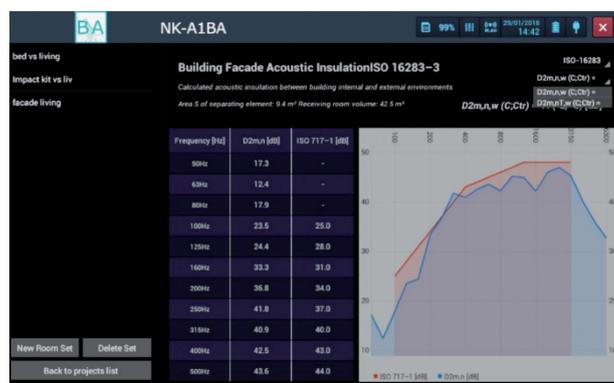


**Results according to**  
**UNI EN ISO 140,**  
**UNI EN ISO 16283**

The program is organized in **projects** and each project in rooms that can be coupled and characterized by means of rooms sets. NK-A1BA has been designed for technicians. It is possible to reach directly the measurements section without completely define each room of the project, in this way the technician can quickly develop the measurements and proceed to the analysis and elaboration successively.



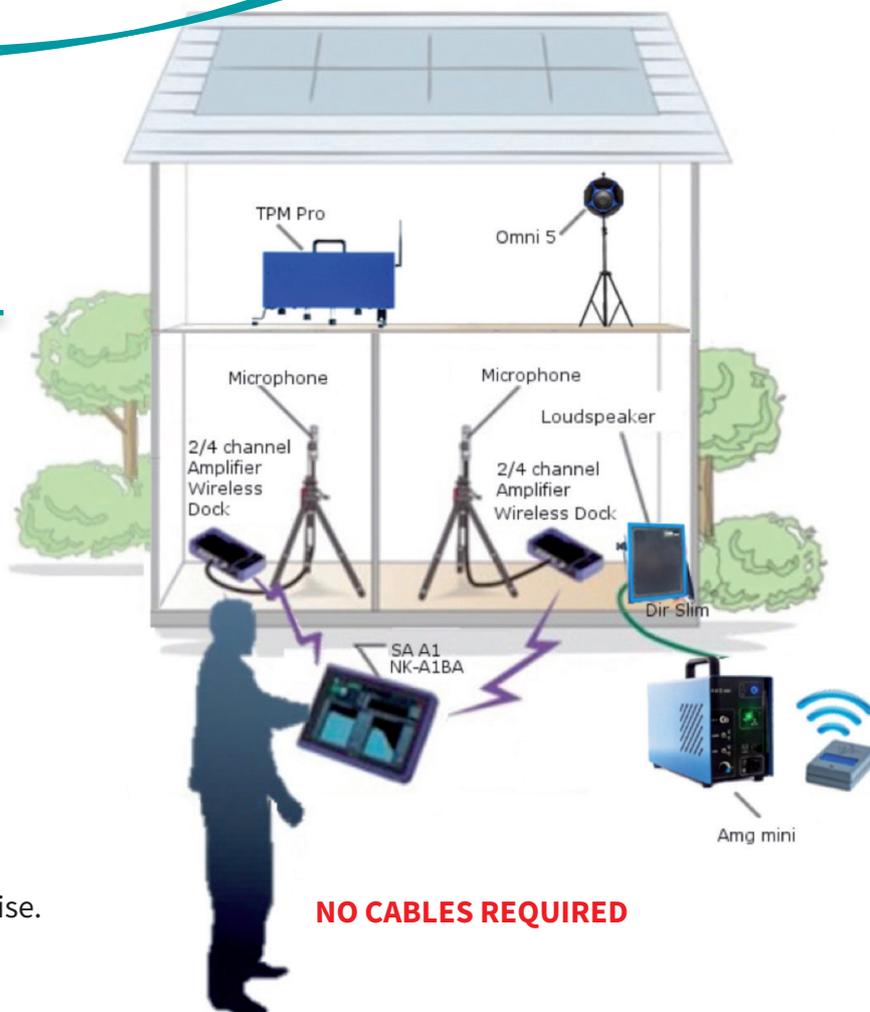
The program shows for each frequency (from 50 Hz to 5 kHz) three calculated values: T20, T30 and Txx. User can set Txx edges: T0 and T1. The vertical blue dashed lines identify T0 and T1 along the curve; in the meantime, the calculated Txx for the specific interval appears in the table.



The program finally reports a test proof for building acoustic in conformity with standard UNI-EN ISO 16283, and UNI-EN ISO 140. It shows a graph with the curve trend as from the standard (light red) and the curve trend from measurements.

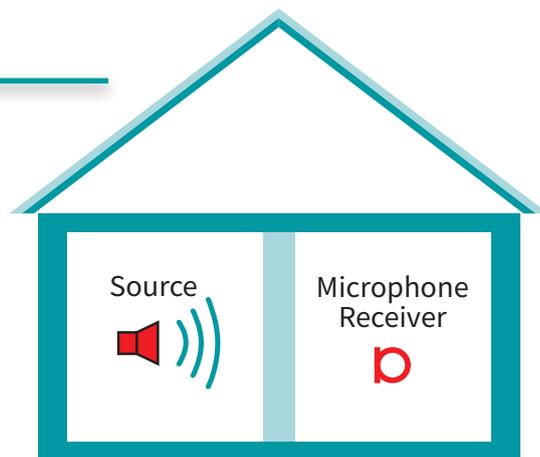
## APPLICATION EXAMPLE

It is possible to perform complete building acoustics characterization by joining Rionote wireless system with NK-A1BA and Ntek's products. In the picture above a technician is doing measurements by means of Rionote staying out of the building thanks to the wireless. In the building he placed microphones connected to docking station to acquire data. The **AMGMini** amplifier, connected to the loudspeaker **DirSlim** or to the **Omni 5** dodecahedron, let generate pink or white noise. The **TPMPro** tapping machine let perform impact noise measurements.



# AIRBORNE MEASUREMENTS

Airborne measurements can be performed by means of a source noise and a microphone receiver as required by the standards: UNI EN ISO 140-4 Field measurements of airborne sound insulation between rooms, UNI EN ISO 16283-1 Airborne sound insulation and UNI EN ISO 3382-2 Reverberation time in ordinary rooms.



Ntek product to perform these measurements are:



OMNI 5

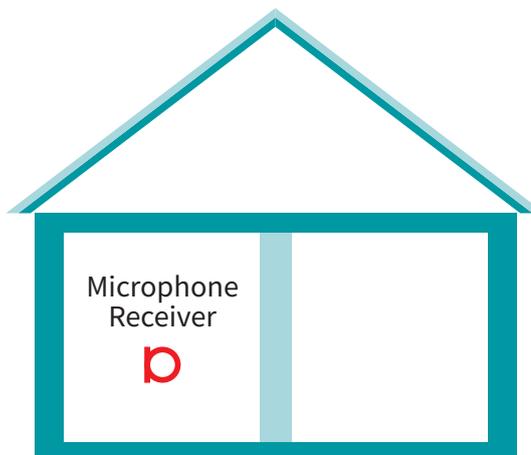


OMNI 4



# FACADE MEASUREMENTS

OMNI 5 Dodecahedron + AMGMini amplifier as Source



MB01 Microphone boom as receiver

Facade measurements can be performed by means of a source external noise and a microphone receiver as required by the standards: UNI EN ISO 140-5 Field measurements of airborne sound insulation of facade elements and facades, UNI EN ISO 16283-3 Façade sound insulation and UNI EN ISO 3382-2 Reverberation time in ordinary rooms.

Ntek product to perform these measurements are:



DirSlim Loudspeaker

+ AMGMini amplifier as Source external

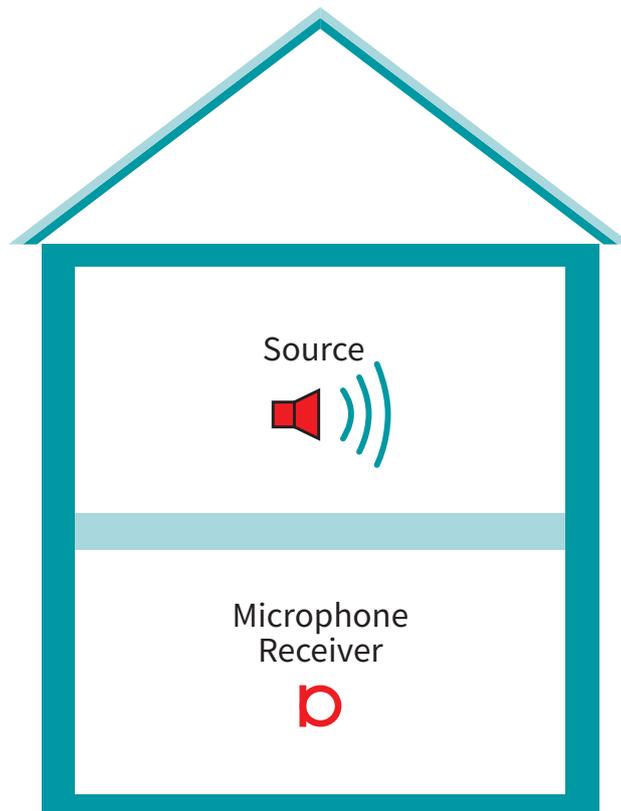


MB01 Microphone boom as receiver

# IMPACT NOISE MEASUREMENTS

Impact noise measurements can be performed by means of a source noise and a microphone receiver as required by the standards: UNI EN ISO 140-7  
Field measurements of impact sound insulation of floors, UNI EN ISO 16283-2  
Impact sound insulation and UNI EN ISO 3382-2  
Reverberation time in ordinary rooms.

Ntek product to perform these measurements are:



## TPMPro

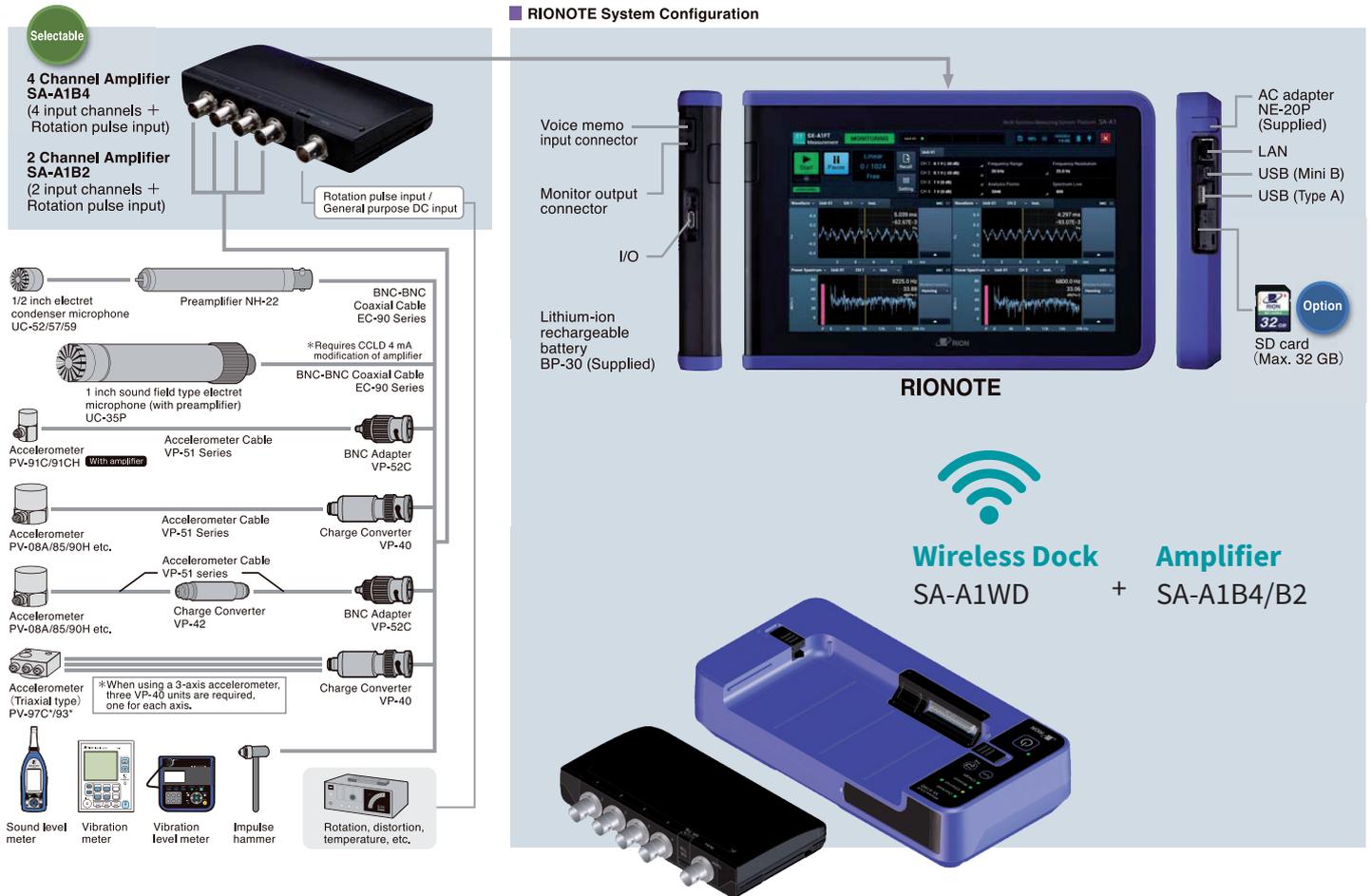
tapping machine  
as source



## MB01

Microphone boom  
as receiver

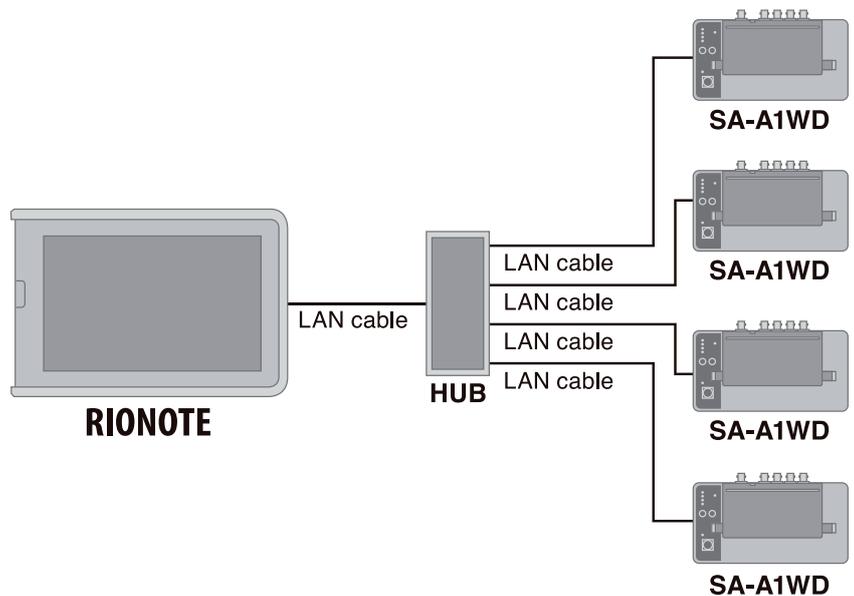
# RIONOTE SYSTEM CONFIGURATION



## RIONOTE REMOTE SYSTEM (LAN)

Using the SA-A1WD amplifier with dock enables measurement at multiple points

- Main control unit can be connected to up to four amplifier units
- Maximum 16 channels



For more information and detail, please, visit NK-01BA website:  
[www.rion-italia.com](http://www.rion-italia.com)