



iSV1611-R Outdoor USB Microphone



iSV1611-R Weatherproof USB Microphone

The USB microphone model iSV1611 is a digital microphone with USB interface, consisting of pre-polarized ½" electret microphone capsule, preamplifier, 2 channel (Stereo) ADC and USB interface, which can be used with apps on smartphone, tablet or PC.

PC, smartphone, or tablet receive the digitized 2 channel signal data via USB cable connected to iSV1611.

The dual channel operation allows simultaneous measuring in the 16 -100 dB(A) and 56 - 140 dB(A) range.

The iSV1611-R USB microphone is equipped with the MR40 microphone rain cover.

Reference direction of sound incidence 90° to the microphone axis.

Technical data

A/D sampling frequency kHz	48/96/192
Frequency range (± 1.5 dB)	4 Hz - 20 kHz
Microphone capsule thread	60 UNS
Polar pattern	Sphere
Electrical noise floor	12 dB (A)
Acoustic background noise	16 dB (A)
Limit sound pressure level	140 dB
Sensitivity	40 mV/Pa
Measuring range	16 dB(A) -140 dB
USB standard	2.0 & 1.1
Dimensions mm	Φ60×295 mm
Microphone holder diameter	1" 21 mm
Weight	140 g

Microphone Capsule Specifications

Transducer type	Capacitive pressure receiver
Frequency range 4 Hz – 20 kHz	4 Hz – 10 Hz: ± 1.5 dB 10 Hz – 4 kHz: ± 0.5 dB 4 kHz – 20 kHz: ± 1.5 dB
Field Idle Transfer Factor	40 mV/Pa
SPL Max. for 3 % distortion at 1 kHz	146 dB
Noise	16 dB(A)
Polarization voltage	0 V
Capacitance with polarization voltage at 1 kHz	18 pF
Working temperature range	-50 ... +100 °C
Humidity up to	70 °C, 90 %
Temperature coefficient	≤ 0.01 dB/K
Static pressure coefficient	0.00001 dB/Pa
Diameter with protective cap	13.2 ± 0.02 mm
Height	10.9 mm
Weight	8.3 g
Thread for preamplifier	11.7 mm 60 UNS
Thread for protective cap	12.7 mm 60 UNS

Maintenance and servicing

To ensure proper functionality, the measuring microphone capsule must be protected from mechanical damage and, depending on the conditions of use, checked on all sides for contamination at intervals to be specified in the operating voltage-free state. After removing the protective cap, the impurities in its interior, as well as on the membrane, should be removed extremely carefully with a soft brush or cloth. The measurement microphone capsule is not suitable for use in chemically aggressive media and conductive dust. Condensation formation must be ruled out.



Frequency response ROGA iSV1611-R

