



iSV1611-HSPL

1/4" USB High SPL Microphone



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The USB microphone model iSV1611 is a digital microphone consisting of a pre-polarized 1/4" condenser microphone capsule, 1/4" – 1/2" adapter, 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 a USB cable connected to the iSV1611.

The two-channel operation allows simultaneous measurement from 35 dB(A) to 167 dB.

The 1/4" measuring microphone capsule is designed for acoustic measurements in research, development and industry and is also used in building acoustics and audiology, among others.

The measuring microphone capsule is suitable for Class 1 sound level meters according to IEC 61672.

Technical Data IEC 61094-4 Type W53

A/D sampling frequency kHz	48/96/192
Frequency range (+/- 1.5 dB)	4 Hz- 80 kHz
Microphone Capsule Thread	60US
Polar Pattern	Sphere
Electrical Noise Floor	12 dB (A)
Acoustic noise floor	30 dB (A)
Limit sound pressure level	165 dB
Sensitivity	4 mV/Pa
Measuring range	30 – 165 dB (A)
USB Standard	2.0 & 1.1
Dimensions mm	φ20×180 mm
1/4" Outer Diameter	7.0 ± 0.02 mm
Weight	115 g

1/4" Microphone Capsule 343

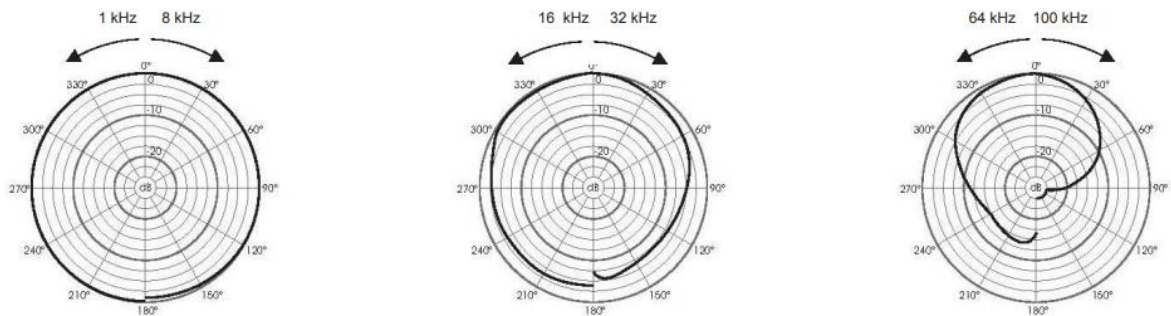
Transducer Type IEC 61094-4 Type WS3F	Pressure
Frequency Range	5 Hz ... 90 kHz (± 2 dB)
Sensitivity	4 mV/Pa
Limit sound pressure level for 3 % harmonic distortion at 1 kHz	165 dB
Noise	30 dB
Polarization voltage	backelectret
Capacitance with polarization voltage at 1 kHz	7 pF
Working temperature range	-40 ... +150 °C
Humidity up to	70 °C, 90 %
Temperature coefficient	≤ 0.01 dB/K
Static Pressure Coefficient	0.00001 dB/Pa
Diameter with protective cap	7 ± 0.02 mm
Height	9.7 mm
Weight	2 g
Threads for preamplifiers	5.7mm 60 US
Thread for protective cap	6.35mm 60 US



Maintenance and servicing

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

Polar diagrams



1 Free-Field Frequency Response | 3 Pressure Frequency Response

