

# iSV1600 Measurement Microphone User Manual

## 1. Overview



The iSV1600 test microphone is a hardware device tailor-made for perfect noise measurement software by Hangzhou Aihua Instrument Co., Ltd. The main purpose of the iSV1600 test microphone is to cooperate with the mobile APP to measure noise and improve the accuracy of noise measurement. The iSV1600 test microphone also has a recording function. The iSV1600 can be used for audio recording in situations with high sound quality requirements.

## 2. Compatible Software

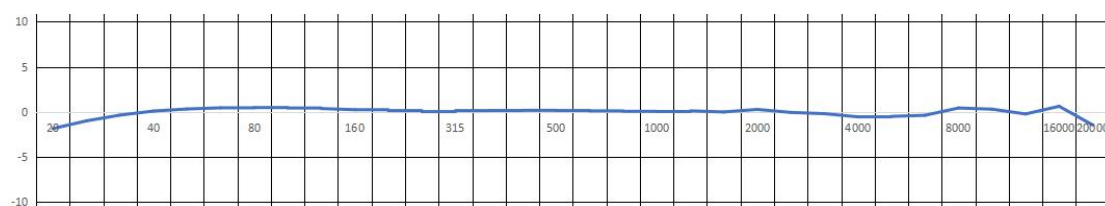
Perfect Noise, S8452 Noise Assistant, Noise Acquisition

Note: The apps can be downloaded from the official website of Hangzhou Aihua Instruments Co., Ltd. (<https://www.hzaihua.com.cn>).

## 3. Key Specifications

Sensitivity:  $-39\text{dB} \pm 3\text{dB}$  ( $0\text{dB} = 1\text{V/Pa}$ )

Frequency Range:  $20\text{Hz} - 20\text{kHz} \pm 3\text{dB}$



Temperature effect: Good stability; sensitivity variation is less than 1 dB between  $0^{\circ}\text{C}$  and  $40^{\circ}\text{C}$ .

## 4. Instructions for Use

Instructions for using the iSV1600 test microphone:

Note: Steps 1, 2, and 3 may be skipped if calibration equipment is unavailable; however, the measured sound pressure level will have a larger margin of error.

- (1) Remove the small windscreen from the tip of the iSV1600 test microphone, then plug the microphone into the mobile phone's headphone jack.
- (2) Open the "Perfect Noise" app, press the "Start" button, and navigate to the automatic calibration interface.
- (3) Insert the tip of the iSV1600 test microphone into the coupling cavity of the calibrator or calibration sound source, then press "Start" to allow the software to perform automatic calibration.
- (4) Place the small windscreen back onto the tip of the iSV1600 test microphone.
- (5) Switch the mobile phone back to the measurement interface and position both the phone and the test microphone at the measurement location. (If it is inconvenient to place the phone directly in the measurement environment, an extension cable may be used.)
- (6) Press the "Start" button; the iSV1600 test microphone will capture sound signals and transmit them to the mobile app.