



**E302**  
Measurement Microphone

# User Guide

## Technical Data

### Type

Back-Electret Condenser

### Element

Pressure

### Polar Pattern

Omni-directional (Figure 1)

### Frequency Response

20~20,000 Hz (Figure 2)

### Sensitivity (1,000Hz open circuit)

-42dBV/Pa (7.94mV/Pa)

1Pa=94dB SPL

### Rated Impedance

2.2K Ω

### Power Requirement

3~12V

### Power Consumption

0.5mA

### Output connector

3.5mm (1/8" ) TS plug

### Finish

Sturdy metal construction, Solemn black finish

### Environment Conditions

The E302 operates between -10°C~50°C (14°F~22°F) with relative humidity between 0 to 95%.

### Dimensions

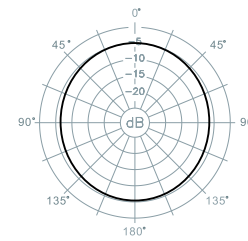
Φ21x128.5mm (0.83 x 5.1 in.), see Figure 3

### Net Weight

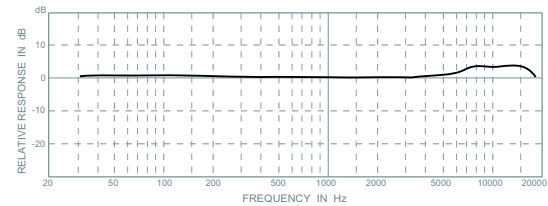
175g (6.2 oz.)

### RoHs

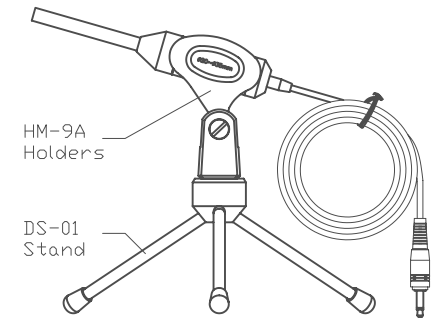
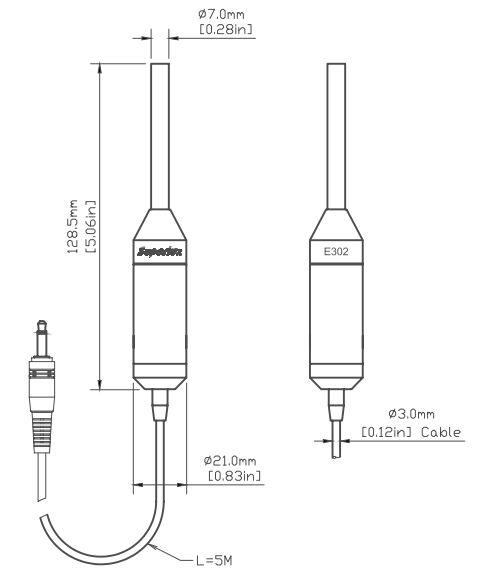
The E302 including product and packages follow instructions of 2002/95/EC and comply to RoHS.



Omni-directional Polar Pattern (Figure 1)



Frequency Response (Figure 2)



Dimensions (Figure 3)

## Overview

The E302 is an omni-directional measurement microphone specifically designed for home theater automatic alignment setting. The permanently attached cable with its 3.5mm(1/8" ) TS mono plug is compatible with the microphone input of a computer and is suitable for most popular plug-in powered mic inputs.

## Features

- Sturdy metal construction, durable black finish.
- Flat response and excellent electro-acoustic characteristics.
- Ideal for room sonic analysis, measurement, testing and home theater automatic alignment setting.
- Permanent 5 meter cable with 3.5mm(1/8" ) mono TS plug can be plugged straight into the microphone input of a laptop or PC.

## Accessories

### Furnished Accessories

Clip ----- HM9B

Table Stand -----DS01



HM9B  
Microphone Clip



DS01  
Table Stand

### Related Items

Boom Stand -----MS131



MS131  
Microphone Boom Stand

## Knowing your microphone

Superlux provides a wide variety of microphones for both professionals and amateurs. Knowing the audio characteristics of your microphone is the first step to a successful result in audio reproduction. The following text gives some information on the characteristics of the E302 microphone and its care:

### Transducer Type



#### Condenser

A condenser microphone features an extremely lightweight diaphragm which is very sensitive to sound. High performance condenser microphones are regarded as standard equipment in recording studios for their ability to capture the finest acoustic detail and very small versions are available for applications where visual minimalization is desirable. A condenser microphone requires a power source such as phantom power or a battery for its operation. The E302 can be powered directly from the microphone input of a laptop or PC, giving it great flexibility in use.

### About Frequency Response

#### Flat

A measurement microphone needs a response that is as flat as possible in order not to give any coloration to the sound source. The E302 is designed specifically to give this desired flat response.

### Directivity/ Omni-directional Polar Pattern

A measurement microphone should have an omni-directional polar pattern to capture the sound from all directions, just like the human ear. The E302 has equal sensitivity in all directions, making it unnecessary to point the microphone directly toward the sound source when in use.

## Extraneous Noises



The E302 features low handling and wind noise, making it ideal for news gathering, music recording and measurement applications.

### Microphone Placement

Place the E302 measurement microphone at the “best seat” measurement data. If the audience area is large, you may prefer to get the average from several of the best locations.

### Maintenance

Condenser microphones should be kept in a low humidity environment for the best sound performance. Store condenser microphones in an air conditioned room or one equipped with a dehumidifier to keep them away from moisture. Clean air is another important factor. Keep the microphone away from a smoking environment to avoid tar residuals which could potentially affect the sensitivity of the microphone.

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