

# ES945/LED ES945SV/LED

engineeredsound®

Omnidirectional Condenser Boundary Microphones with Mute Switch and LED Indicator



## Specifications

<b>Element</b>	Fixed-charge back plate, permanently polarized condenser
<b>Polar pattern</b>	Omnidirectional
<b>Frequency response</b>	40-19,000 Hz
<b>Open circuit sensitivity</b>	-40 dB (10 mV) re 1V at 1 Pa
<b>Impedance</b>	200 ohms
<b>Maximum input sound level</b>	142 dB SPL, 1 kHz at 3% T.H.D.
<b>Dynamic range (typical)</b>	113 dB, 1 kHz at Max SPL
<b>Signal-to-noise ratio</b>	65 dB, 1 kHz at 1 Pa
<b>Phantom power requirements</b>	11-52V DC, 5.7 mA typical
<b>Switch</b>	Touch-sensitive control: on/mute
<b>Weight</b>	65 g
<b>Dimensions</b>	84.8 mm long 38.0 mm diameter 48.0 mm maximum width
<b>Output connector</b>	Integral 3-pin XLRM-type
<b>Accessories furnished</b>	One pair isolators

## Features

- Mounts unobtrusively in tabletops
- Low-profile element provides uniform omnidirectional polar pattern with 360° acceptance angle
- UniGuard® RFI-shielding technology offers outstanding rejection of radio frequency interference (RFI)
- Self-contained electronics eliminate the need for external power module
- Rugged all-metal case with a two-layer steel mesh grille
- Capacitive-type touch-sensitive switch allows users to easily mute/un-mute the microphone
- Integral LED ring indicates mute status—green when mic is live, red when muted
- Isolators provide mechanical dampening of mounting-surface vibration
- Available in two colors: black (ES945/LED) and silver (ES945SV/LED)

## Description

The ES945/LED is a wide-range condenser microphone with an omnidirectional polar pattern. It is designed for unobtrusive tablemounted use in high-quality sound reinforcement, conferencing, professional recording, television and other demanding sound pickup applications.

The microphone features a capacitive-type touch-sensitive switch that toggles between on/mute and a Red/Green LED indicator ring that displays mute status.

The microphone requires 11V to 52V phantom power for operation.

The microphone is equipped with UniGuard® RFI-shielding technology, which offers outstanding rejection of radio frequency interference (RFI).

The output of the microphone is a 3-pin XLRM-type connector.

Isolators are included with the microphone for optional mechanical isolation from the mounting surface. The microphone is enclosed in a heavy-duty die-cast case and is protected by a two-layer steel mesh grille. The low-profile housing has a low-reflectance black finish. The microphone is also available in silver as the ES945SV/LED.

## Installation and Operation

The ES945/LED requires 11V to 52V phantom power for operation.

Output is low impedance (Lo-Z) balanced. The signal appears across Pins 2 and 3; Pin 1 is ground (shield). Output phase is "Pin 2 hot"—positive acoustic pressure produces positive voltage at Pin 2.

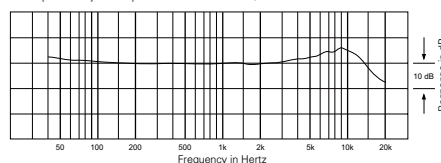
The microphone should be installed on a flat, unobstructed mounting surface. The small-diameter capsule near the boundary eliminates phase distortion and delivers clear, high-output performance.

To mount the microphone in a tabletop without the isolators, a 20.5mm diameter hole is required. To mount the microphone with the isolators, a 23.5 mm hole is required. Place the isolators on either side of the hole to achieve mechanical isolation from the mounting surface.

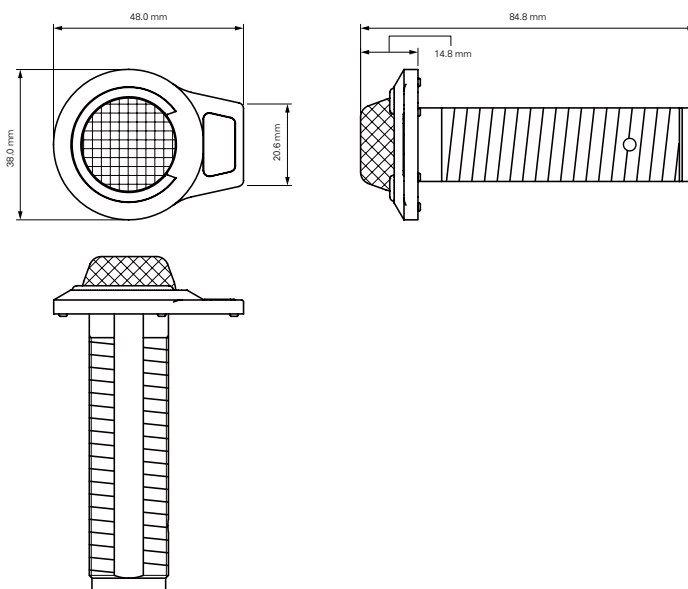
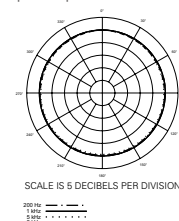
The capacitive-type touch-sensitive switch enables muting functionality: press to mute, press again to un-mute. The LED indicator ring lights green when the microphone is live and lights red when the microphone is muted.

Avoid leaving the microphone in the open sun or in areas where temperatures exceed 110° F (43° C) for long periods of time. Extremely high humidity should also be avoided.

frequency response: 40~19,000 Hz



polar pattern



# ES945/LED ES945SV/LED

全方向指向性界面话筒 (带轻触开关及LED指示灯)

engineered sound®



## 技术指标

收音头	固定充电背板, 静电型电容式
指向特性	全方向指向性
频率响应	40-19,000 Hz
开通灵敏度	-40 dB (10 mV) 以 1V 于 1 Pa
阻抗	200 欧姆
高最大承受声压	142 dB 声压级, 1 kHz 于 3% T.H.D.
动态范围 (典型)	113 dB, 1 kHz 于最高声压级
讯噪比	65 dB, 1 kHz 于 1 Pa
幻象供电	直流 11-52V, 耗电 5.7 mA 典型
开关	轻触式控制: 开启/哑音
重量	65 克
外形尺寸	长 84.8 mm, 直径 38.0 mm, 最大宽度 48.0 mm
输出端子	内置式 3 针卡农公头
标准配置	1 对防震绝缘胶

## 特点

- 能不显眼的在桌面上安装
- 低剖面的收音元件, 提供了均匀的全方向收音指向性以及 360° 的收音角度
- UniGuard® 射频干扰 (RFI) 屏蔽技术, 提供杰出的抗射频干扰能力
- 内置话筒前置放大器供电组件, 无需使用外置供电模组
- 坚固的全金属结构设计, 提供有两层钢网罩保护
- 电容感应的轻触式开关, 可轻易地设定话筒哑音或正常收音
- 内置环型 LED 哑音状态显示灯 - 绿色显示正常收音; 红色为哑音状态
- 配有防震绝缘胶, 以减低安装面上的震动噪声
- 备有两种频色: 黑色 (ES945/LED) 和银色 (ES945SV/LED) 型号

## 介绍

ES945/LED 是一枚阔频宽的电容式全方向指向性话筒, 设计于安装在不起眼的桌面上使用, 可应用于专业录音、电视广播、视像会议等高要求的收音应用。

话筒设有电容感应轻触开关, 可作哑音设置开关, 并设置环型LED显示灯, 以红/绿色显示哑音状态。

话筒使用直流11V至52V幻象供电工作。并配备有UniGuard®射频干扰 (RFI) 屏蔽技术, 提供杰出的防止射频干扰能力。输出接线端为标准的 XLRM-3 农公头。

话筒配有防震绝缘胶, 以防止安装面上的震动噪声。而话筒外壳为全金属结构及双层保护网设计, 表面涂上低反光黑色涂层。另备有银色型号 ES945SV/LED 选购。

## 安装与操作

ES945/LED 内置的供电模组, 使用直流11V至52V幻象供电工作。

低阻抗的平衡音频输出, 音频信号以卡农公头的2号及3号针脚输出, 而1号针脚则为地线(屏蔽)连接。输出相位将以正相位电平设于2号针脚上。

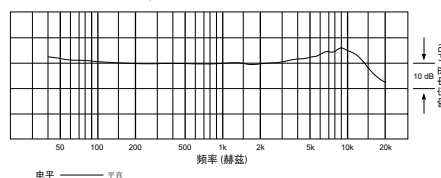
话筒应安装在一个平直及无阻碍物的平面上, 接近平面的小型收音头可消除相位失真, 并提供清晰及高输出的表现。

话筒如不需要安装防震胶时, 可在桌面上开出直径20.5mm的圆孔安装; 如需要连同防震胶一起安装时, 则需要开出直径23.5mm的圆孔, 而防震胶需要前后两端同时安装于平面上。

电容感应式的轻触开关, 可提供话筒的哑音设置: 在正常收音时按下开关可设定为哑音, 再按下可回复正常收音。环型LED显示灯在正常收音时会显示绿色, 在哑音状态时显示红色。

把话筒暴露于高温中可能导致输出电平逐渐及永久减弱, 应避免将话筒留在日晒或长时间置于温度超过43°C的地方, 而极高湿度也应避免。

频率响应: 40~19,000 Hz



指向特性

