

AT8656/LED

Flush-mount Microphone Socket with LED Ring and Touch Switch



Features

- Flush-mount microphone socket for the ES945/ES947 or any phantom-powered gooseneck with a 3-pin XLRM-type output and a base diameter no greater than 21mm
- Mounts unobtrusively in tabletops
- Touch-sensitive on/off control from builtin capacitance switch
- Integral, phantom-powered, Red/Green LED indicator ring
- Operates on 20-52V DC phantom power
- 3-pin XLRF-type connector for microphone, 3-pin XLRM-type connector for output
- Lock tab in socket case automatically locks microphone in place, holding it there until tab is manually released by user
- Isolators provide mechanical dampening of mounting-surface vibration
- Low-profile design with low-reflectance black finish for minimum visibility

Description

The AT8656/LED flush-mount microphone socket features a capacitive-type touch-sensitive switch, Red/Green LED indicator ring, touch-on/touch-off switch and a lock tab to hold microphone in place. The socket is equipped with a three-pin XLRF-type in, and a three-pin XLRM-type output connector.

The AT8656/LED requires 20-52V DC phantom power for operation. The electronics in the socket take up to 30 seconds to stabilize after power is applied; during this start-up period, some sonic disturbances may be heard upon switching if the system is "live."

The lock tab, located in the socket case, automatically engages when microphone is inserted, securely holding it in place until tab is manually released by user.

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

Isolators are included with the unit for mechanical isolation from the mounting surface. A retaining ring is also included for use with gooseneck microphones. The socket is enclosed in a heavy-duty die-cast case. The low-profile housing has a low-reflectance black finish.

Installation and Operation

The AT8656/LED requires 20-52V DC 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.

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The microphone socket should be installed on a flat, unobstructed mounting surface.

The AT8656/LED should be mounted to a tabletop using the included isolators in order to dampen surface vibration. To mount the socket with the isolators, a 35 mm hole is recommended. Place the isolators on either side of the hole to achieve mechanical isolation from the mounting surface.

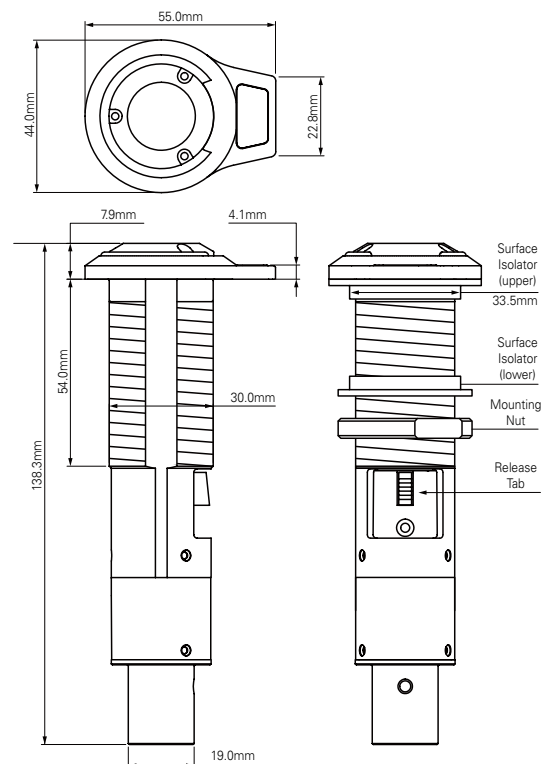
Use the retaining ring to hold a gooseneck microphone securely in the socket. Insert the microphone and plug it into the three-pin XLRF-type input, then slip the rubber isolator and retaining ring over the microphone and screw it in place at the microphone's base using included screws. **Note:** The retaining ring and gooseneck isolator are used only with gooseneck microphones.

The AT8656/LED features a touch-on/touch-off switch that controls the microphone, muting it by 50 dB at 1,000 Hz. The circuitry also operates a LED indicator ring lights green when the mic is "on or red when it is off.

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

Specifications

Frequency response	50 ~ 20,000 Hz
OFF attenuation	< 50 dB at 1kHz/Pa
LED	Green when mic on; Red when mic off
Phantom power requirements	20 - 52V DC, 4.5 mA typical
Switch	Touch-sensitive control : toggle (mute on power up)
Weight	188 g
Dimensions	139.3 mm long, 55.0 mm maximum width
Input connector	3-pin XLRF-type
Output connector	3-pin XLRM-type
Accessories furnished	One pair isolators, one set metal retainer ring



AT8656/LED

嵌入式话筒插座 (带轻触开关及LED指示灯环)

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话筒插座应安装在一个平直及无阻碍物的平面上。

AT8656/LED 插座应使用附属的防震胶安装于桌面上，以隔离桌面上震动。在与防震胶一起安装时，需要开出直径35mm的圆孔，而防震胶需要前后两端同时安装于平面上。

使用附带的金属固定环来安装鹅颈式话筒。把鹅颈式话筒插进插座后，插座会自动锁定话筒，再把固定环连带橡胶隔离垫圈套入话筒。小心放下并对准三个小孔位置，并用附带的螺丝安装收紧。如要卸下话筒，必须先松开螺丝。然后取出固定环及橡胶隔离垫圈。按下插座下方的释放解锁键，小心把话筒拔出。**注意：**金属固定环只适用于鹅颈式话筒安装。

AT8656/LED 插座的电容式轻触开关，可容许使用者控制话筒的收音或静音状态，在静音时提供50dB于1,000Hz的静音衰减，控制为锁存式（即按一下收音，再按一下静音）。而LED显示灯在收音时为绿色；静音时为红色。

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。

技术指标

频率响应	50 ~ 20,000 Hz
静音衰减	< 50 dB 于 1kHz/Pa
LED显示灯	收音状态时为绿色 / 静音状态时为红色
幻象供电	直流 20-52V, 耗电 4.5 mA 典型
开关	轻触式控制式: 锁存式 (上电静音)
重量	188 克
外形尺寸	长 139.3 mm, 最大宽度 55.0 mm
输入端子	3 针卡农母头
输出端子	3 针卡农公头
标准配置	1对防震绝缘胶; 1套金属固定环

特点

- 嵌入式安装的话筒插座，适用于 **ES945/ES947** 或任何使用**3针卡农公头**输出的**21mm**鹅颈式幻象供电话筒
- 用于桌面上的不显眼安装
- 设有轻触式按钮，能经内置开关控制话筒收音或静音
- 整合环型 **LED** 状态显示灯，以幻象供电操作，提供绿色 / 红色显示
- 以 **20-52V** 幻象供电操作
- 以**3针卡农母头**连接话筒，及**3针卡农公头**输出
- 插入话筒到位后，能自动锁定话筒，以避免随便被人拿取。只能在用户作手动释放后，方能除下话筒
- 配有防震橡胶隔离环和金属固定环（配合鹅颈话筒使用），以减低安装面上的震动噪声
- 不显眼的低剖面设计，表面涂上低反光黑色涂层。

AT8656/LED是一套嵌入式，用于桌面安装设计的话筒插座，具有轻触式开关作控制，另外整合了一个环型LED状态显示灯，当话筒在收音状态时亮起绿色的灯号，而静音时为红色显示。该插座还具有自动锁定话筒开关，输入端为3针卡农母座；而输出端为3针卡农公头。

插座需要直流20V至52V幻象供电工作，插座中的电子电路在通电后需经30秒才能稳定；在这初段时期，如果在系统上开关按钮，可能会听些声波的干扰。

该插座还具有锁定开关，当话筒完全插入时可以自动锁定话筒，以避免被人拿取，只有作出手动释放后，方能除下话筒。

插座输出端为3针XLRM卡农插头。

每个插座都配有一对防震橡胶隔离环和一套金属固定环（配合鹅颈话筒使用），以减低安装面上的震动噪声。外壳为全金属结构，表面涂上低反光黑色涂层。

安装与操作

AT8656/LED 内置的控制电路，需使用直流20V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。

