

# PRO49QL

**ProPoint**<sup>®</sup>  
M I C R O P H O N E S

## REMOTE-POWERED CARDIOID CONDENSER QUICK-MOUNT GOOSENECK MICROPHONE



### Description

The PRO49QL is a wide-range condenser microphone with a cardioid (unidirectional) polar pattern. It was designed for high-quality sound reinforcement and other demanding sound pickup situations.

The PRO49QL features an XLRM-type connector insert at its base, allowing it to be plugged directly into an XLRF-type jack or cable connector. The unit's integral electronics can be powered from any external 9V to 52V DC phantom power source.

The small-diameter gooseneck is very easy to manipulate for proper positioning. It is heavily lubricated to offer very smooth and quiet operation. The microphone element is enclosed in a rugged housing with a low-reflectance black finish.

### Operation and Maintenance

Output is low impedance balanced. The output connector mates with XLRF-type connectors. The balanced signal appears across Pins 2 and 3, while the ground (shield) connection is pin 1. Output is phased so that positive acoustic pressure produces positive voltage at Pin 2 in accordance with industry convention.

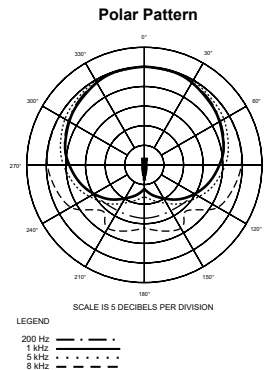
DC phantom power (9-52 volts) must be applied equally to Pins 2 and 3, with the ground for the power supply connected to Pin 1. This can be provided by a console or mixer with built-in phantom voltage or with the addition of an in-line phantom power supply.

The high sensitivity of the PRO49QL ensures useful output and an excellent match to most mixer, type recorder and amplifier inputs. It will provide undistorted output even in sound fields as loud as 134 dB SPL. However, due to the high sensitivity, in some instances it may be possible to overload sensitive input stages.

While a modern condenser microphone is not unduly sensitive to the environment, temperature extremes can be harmful. Exposure to high temperatures can result in gradual and permanent reduction of the output level. 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.

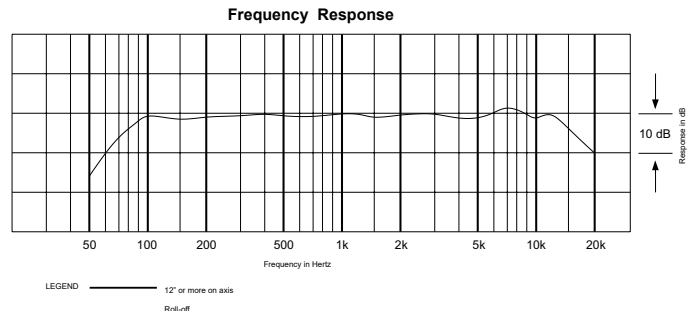
### SPECIFICATIONS

ELEMENT	Fixed-change back plate permanently polarized condenser
POLAR PATTERN	Cardioid (Unidirectional)
FREQUENCY RESPONSE	70-16,000 Hz
OPEN CIRCUIT SENSITIVITY	-37 dB (14.1 mV) re 1V at 1 Pa
IMPEDANCE	100 ohms
MAX. INPUT SOUND LEVEL	134 dB SPL, 1 kHz at 1% T.H.D.
DYNAMIC RANGE (Typical)	106 dB, 1 kHz at Max SPL
SIGNAL-to -NOISE RATIO	66 dB, 1 kHz at 1 Pa
PHANTOM POWER	9-52V DC, 2 mA typical
WEIGHT	84 g
DIMENSIONS	12.0 mm - head diameter, 418.0 mm - long
OUTPUT CONNECTOR	Integral 3-pin XLRM-type
ACCESSORIES FURNISHED	AT8146 foam windscreen



### Optional Accessories:

- AT8104a large metal windscreen.
- AT8117 large foam windscreen for high-Wind conditions.
- AT8201 line matching transformer (Lo-Z to 50,000 ohms).
- AT8202 adjustable in-line attenuator for use with balanced Lo-Z microphones.
- AT8416 shock mount.
- AT8506 four-channel 48V phantom power supply (AC powered).
- AT8668 quick-mount plug-in microphone desk stand.
- AT8668S quick-mount plug-in microphone desk stand with switch.
- AT8801/EU single-channel 48V phantom power supply (AC powered).



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## 心形指向性 快速安装式 专业型鹅颈式会议话筒



### 说明

PRO49QL 是一枚阔频宽的电容式单指向收音话筒，高质量的收音效能，设计于增强收音、专业录音、电视广播、会议及其他高要求的收音应用。

PRO49QL 的接线端是标准的3针卡农公头XLRM。可连接到任何以3针卡农母头XLRF设计的会议话筒座上，亦可在有需要时直接连接到调音台上，话筒配置有供电模组。使用外接9V至52V的直流幻象供电工作。

细小的直径及鹅颈设计，可轻易将收音头灵活调节到任何位置，以达到最佳收音效果。

话筒外壳是使用耐用的合金铸造，并涂上黑色不反光涂层。

### 安装及操作

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，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。

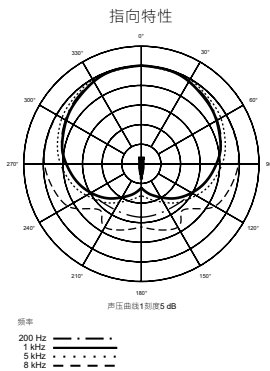
阔频宽的电容式单指向收音话筒，高质量的收音效能，设计于增强收音、专业录音、电视广播、会议及其他高要求的收音应用。

此电容话筒设计于桌面固定安装应用，使用卡农XLRM-3连接头，以其频率响应为70Hz至16,000Hz的心形指向收音头收音，内置音频放大供电模组，工作于外置9V至52V直流幻象供电，可提供达134dB的声压输入电平，而开通灵敏度电平为-37dB，输出为平衡低阻抗(100欧姆)3针卡农公头。

现在的电容话筒虽然不会对环境过度敏感，但在极高或极低的温度下亦可能损坏，暴露于高温中可能导致输出电平逐渐及永久性减弱，应避免将话筒留在日晒的地方或长时间置于温度超过43°C的地方，而极高湿度也应避免。

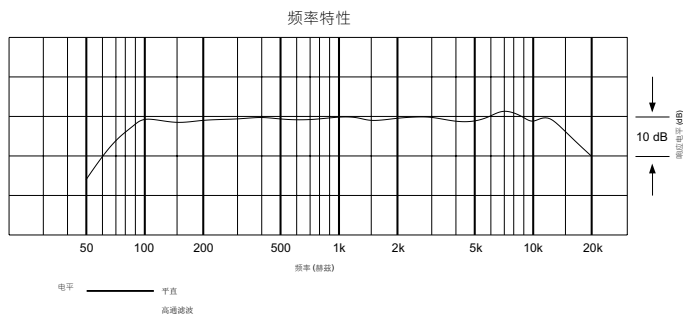
### 技术指标

收音头	静电型电容式
指向特性	心形指向性(单指向性)
频率响应	70-16,000 Hz
开通灵敏度	-37 dB (14.1 mV) 以 1V 于 1 Pa
输出阻抗	100 欧姆
最高输入声压	134 dB SPL, 以 1V 于 1% T.H.D.
动态范围(典型)	106 dB, 以 1V 于最大声压
信噪比	66 dB 以 1V 于 1 Pa
幻象供电	9-52V DC, 2 mA 典型
重量(不带连线与配件)	84 克
外形尺寸	12.0 mm - 音头直径, 418.0 mm - 长度
输出连接器	内置 XLRM-3针卡农公头
附属品	AT8146防风棉



### 选择配件:

- AT8104a 大型金属防风罩。
- AT8117 强力大型金属防风罩。
- AT8201 话筒线路匹配变压器(低阻抗至50,000欧姆)。
- AT8202 可选式低阻抗话筒电平衰减器。
- AT8416 防震座。
- AT8506 四通通48V幻象供电(交流供电)。
- AT8668 座桌快速安装话筒座。
- AT8668S 带开关座桌快速安装话筒座。
- AT8801/EU 单通道48V幻象供电(交流供电)。



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