

# Apex176

## Owner's Manual

This is the ideal microphone for sound reinforcement applications where the microphone needs to have a tight pick-up pattern, but cannot be placed close to the source. Shotgun microphones are most commonly used on sound-stages, for stage plays, for broadcast or for electronic newsgathering. This super-cardioid shotgun mic will run on either phantom or battery power.

### User Tips

The APEX176 is a condenser microphone that can either run on phantom power or its own AA battery.

It is best to aim the Apex176 directly at the sound source. Always put the Apex176 on a secure boom stand to reduce handling noise, and use the supplied mic stand mount for added stability and security.

The Apex176 is a true low impedance microphone designed to connect to low impedance mixer or recording device. If you are connecting to any camera with high impedance inputs, a line transformer should be used for best results.

The Apex176 has a 70Hz low frequency roll-off switch on the microphone body. It is generally a good idea to leave the switch in 'flat' or no-roll off mode where ever possible; however in some applications using the roll-off to remove low frequency interference and increase intelligibility (especially when recording voices) may be required.

Contrary to popular belief, shotgun microphones do not have the ability to pinpoint distant sound sources as if they were up close. In fact they work by phase-canceling off-axis sound so sources within the narrow center field are picked up more clearly and with less attenuation required. At a distance they respond best to mid /high frequencies making them ideal for speech, hence their use in film and TV production. Given the APEX176 high degree of off-axis exclusivity gain should be compensated at the mixer or using a mic preamp such as ART's Tube-MP for best results.

To replace the battery, grip the upper part of the mic and twist the lower part to unscrew the 2-part housing. Replace the battery with a good-quality AA type. A fresh battery can provide up to 1,000 hours of use and there is no need to remove the battery when phantom-powering the Apex176.

### Features

- Extended Hypercardioid Pickup Pattern
- Excellent Off-Axis Rejection
- 70Hz Low-Frequency Roll Off Switch
- Operates with Internal AA Battery or with Phantom Power
- Padded Carry Bag, Deluxe Microphone Clip & Foam Windscreen Included
- Ideal Microphone for Remote Recording, Film and Broadcast Applications

### Specifications

Element:	Back Electret Condenser
Polar Pattern:	Hypercardioid
Frequency Response:	50Hz to 20,000Hz
Sensitivity:	-56dB (+/- 3dB, 0dB = 1v/ubar@1kHz)
Impedance:	300 ohms +/- 30% @ 1kHz
Signal to Noise:	72dB (1kHz @ 1Pa)
Max SPL @ Input:	132dB (1kHz ≤ 1% THD)
Power Requirement:	Internal AA Battery or Phantom Power (9 to 48V)
Connection:	Integrated XLR- M
Dimensions (mm):	368.3 x 19.5
Dimensions (in):	14.5 x 0.75
Weight	392g / 13.3oz (Excluding Battery)

