



## Apex471 Specifications:

<b>Type</b>	Low-Noise Class-A Tube Design
<b>Polar Pattern</b>	Cardioid Capsule Included
<b>Frequency Response</b>	20 - 20000 Hz
<b>Sensitivity</b>	20mV/Pa - 34dB (0dB = 1v/Pa) -10dB
<b>Controls</b>	-15dB pad & low frequency roll-off switches
<b>Impedance</b>	<200 Ohms
<b>S/N Ratio</b>	18dB SPL A-weighted
<b>Max SPL</b>	(1% THD @ 1000Hz) 134dB (145dB w/pad)
<b>Equivalent Noise</b>	(IEC 268 - 4 - A weighted) 20dB
<b>Power Requirement</b>	Dedicated Power Supply (included)
<b>Dimensions</b>	7.5 inches x 1.1 inches (190 x 28 mm)
<b>Weight</b>	9.7oz (280g)

Improved quality in ever more affordable recording equipment has brought serious power to the home studio enthusiast or small project studio. The microphone is the first and often most important link in the signal chain.

The Apex471 tube condenser microphone is perfect for recording both critical vocals and solo instruments. Its integrated vacuum tube preamp circuit delivers warmth and clarity with an incredible amount of gain not available in a solid-state microphone design, making it an ideal solution for digital audio workstations or any direct to drive recording system.

The Apex471 comes standard with a cardioid condenser microphone capsule. The cardioid polar pattern is ideal for single instrument or solo vocal use and will yield the best results in most applications. It offers full frequency response on the front of the microphone and the advantage of proximity effect (*increased low frequency response when microphone is placed close to sound source*\*) and excellent noise rejection from the sides and back, or 180-degree position of the microphone. User selectable low frequency roll-off and -15dB pad switches are included on the microphone body for increased versatility.

*\*Vocalists can use the proximity effect to their advantage, adding fullness and more 'bottom end' to the voice. Experienced vocalists can easily incorporate it as part of their overall microphone technique. Experimentation with mic placement during the recording process to ensure best results is always advised.*

Optional user changeable omnidirectional and hypercardioid capsules are available. See authorized Apex dealer or go to [www.apexelectronics.com](http://www.apexelectronics.com) for details.

In all recording applications, it is advised to always use a windsock over the microphone or use a pop filter like the Apex MWS-56dlx when recording vocals for best results. A high quality pop filter will improve the overall performance of the microphone without a negative impact on the overall frequency response and tone.

You may find better results if you don't sing directly into the microphone, but change your 'angle of incidence' so you are singing slightly off axis or over the top of the capsule. This will lessen the excessive breath noise and sibilance in some cases, and give you a more balanced and natural recorded sound.

Always use the supplied shock mount with the Apex470 for best results. Although the microphone is not exceptionally fragile, it is very sensitive and can pick up even minute vibrations through the microphone stand and floor.

All condenser microphones are somewhat fragile. They do not like to be exposed to any sharp impact that may stretch or knock the element out of alignment including being dropped, tapped, or being blown into. This is especially true of any tube condenser microphone, including the Apex471.

The outer shell of your mic can be cleaned with a soft damp cloth. Do not use harsh detergents, solvents, or abrasive materials.

Never immerse any microphone or its power supply in water.

### Included Accessories:

- **Constant voltage power supply module** - Ensures quiet operation while delivering current to the integrated tube pre-amplifier and condenser microphone capsules without requiring phantom power from mixer or recording device.
- **Shockmount Adaptor** - Stops noise from transferring through the floor and mic stand to the sensitive microphone capsule.
- **7-pin XLR shielded microphone cable** - Provides clean signal from microphone while transferring power to drive capsule and preamp from power supply.

### Suggested Accessories:

- Apex **MWS-56dlx** 6-inch studio pop filter
- Apex **MS-656B** Heavy-duty microphone stand

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