



**PEAVEY**<sup>®</sup>  
ARCHITECTURAL ACOUSTICS<sup>®</sup>

## AVR™-1

### Omnidirectional Microphone

#### SPECIFICATIONS

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##### Frequency Response:

40 Hz - 20 kHz

##### Type:

Electret condenser

##### Directional Characteristics:

Omnidirectional

##### Sensitivity:

-52 dBV (0 dB = 1V/microbar)

##### Maximum SPL:

126 dB

##### Impedance:

250 ohms

##### Case:

Brass

##### Windscreen:

Chrome plated, stainless steel wire mesh

##### Dimensions:

5.5" long x .865" diameter  
(14 cm x 2.2 cm)

##### Weight:

8 oz. (135 grams)

##### Accessories Included:

Foam pop filter, swivel adaptor, lined metal storage case

##### Connector:

XLR-3M

#### Cables Required:

Low impedance operation: Use standard two-conductor with shield microphone cable with XLR-3 type connectors

High impedance operation: A standard XLR-type microphone cable must be used between the microphone and an external phantom power supply. A microphone cable with integral impedance converter should be used between the phantom supply output and a high impedance microphone input.

#### FEATURES:

- Omnidirectional polar pattern
- Smooth frequency response suitable for vocal or instrument applications
- Chrome plated, stainless steel wire mesh windscreen
- Brass case
- Improved shock mounting
- No proximity effect

#### DESCRIPTION

#### AND APPLICATIONS:

The AVR™-1 microphone will maximize the fidelity of most any recording process. It is capable of providing transparent signals in both the traditional live recording using a small number of microphones and in the contemporary studio recording using close microphone techniques.

The AVR-1 utilizes a small diaphragm condenser element to minimize diffraction, in addition to minimizing the directionality of high frequency material.

High-quality FET electronics have been incorporated to provide extremely low noise and sonic excellence in capturing even the most minute qualities in any given sound.

The low noise of the AVR-1 and its ability to capture high sound pressure levels (without audible distortion) provides exceptional dynamic range. This allows the softest of pianissimos and the loudest of fortissimos to be captured by the AVR-1, making it an excellent choice for quality recording or sound reinforcement applications.

### **OMNIDIRECTIONAL PATTERN:**

The AVR-1 microphone has an omnidirectional pickup pattern. Omnidirectional microphones are equally sensitive from the front, sides and rear. This provides the microphone with the ability to pick up all sounds equally, regardless of their orientation relative to the microphone. It must be kept in mind that for recording studio purposes an omnidirectional microphone will pick up far more leakage. In live performance or PA applications, omni's are far more susceptible to acoustic feedback because of their non-directionality.

When the AVR-1 is used to record acoustic instruments in the far-field of an auditorium environment, the natural room ambience is picked up so that the reproduced signal includes the subtle nuances of the room characteristics. The microphone is small and unobtrusive which allows installation in most any environment where aesthetics are important.

The AVR-1 can also be used for studio-type multi-track recording in situations where you desire no proximity effect. This microphone will display the

same frequency response characteristics in the near field (close miked) and in the far field (distant miked), without the normal increase in low frequency response that is contributed by cardioid-type microphones.

### **ARCHITECTURAL SPECIFICATIONS:**

The microphone shall be an electret condenser omnidirectional type with a uniform frequency response of 40 - 20,000 Hz. The microphone shall have an output level of -52 dB (0 dB = 1V/microbar). The microphone will exhibit little (if any) off-axis attenuation. The microphone shall use a shock-mounted electret condenser element that provides stability, long life, and high impact strength while having an output not appreciably affected by temperature and/or humidity extremes from -18.8° C (0° F) to 54.4° C (130° F). The case of the microphone shall be brass and the finish shall be non-reflecting black color paint. The mic shall have a matte black head shaped to reduce sound diffraction (shadowing) to improve the omni pattern.

### **PHANTOM POWER:**

The AVR-1 requires external phantom power to drive the electronics. This microphone will not accommodate internal batteries. Any mixer with phantom power or any outboard phantom supply in the range of 9 to 52 volts DC may be used. The AVR-1 has an internal voltage regulation circuit that will see that the internal electronics receive the proper voltage, even when used on higher voltage phantom power supplies (52 volts DC). In absence of phantom power in your mixer, we recommend the Peavey PS2B battery powered supply for two microphones, or the PS-4AC AC powered supply for four microphones.

### **PLUGGING AND UNPLUGGING ELECTRETS:**

When plugging electret condenser microphones into audio mixers, it is advised that the channel gain be reduced to zero to eliminate the possibility of a transient "thump". The channel gain should also be reduced to zero when unplugging and when switching phantom power on or off.

## **LIMITED WARRANTY**

Peavey Electronics Corporation warrants to the original purchaser of this new Architectural Acoustics product that it is free from defects in material and workmanship. If within one (1) year from date of purchase a properly installed product proves to be defective and Peavey is notified, Peavey will repair or replace it at no charge. (Note: Batteries and patch cords not covered.) "Original purchaser" means the customer for whom the product is originally installed.

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Features and specifications subject to change without notice.

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