



## SM5 Microphone Kit Instructions

The SM2 interface amplifier is designed to be used in installations where an audio amplifier (speaker) is not needed or is already provided in a DVR, monitor or other device. It provides a convenient way of supplying power to the SM1 microphone, easy termination of the cable run and standard RCA audio output connector.

### **SM1 Microphone Placement**

Locate the SM1 microphone near the area of interest in the room to be monitored. If the entire room is to be monitored, locate the SM1 in the middle of the room. Do not mount the microphone near air conditioning vents, light fixtures or electrical equipment. The SM1 should be placed at least 5 feet away from the subject(s) to be monitored. Place the SM2 amplifier in the room you from which you will be monitoring.

### **Cable Run**

Run a 18 or 22 gauge, stranded, two conductor shielded cable between the SM2 amplifier and the SM1 microphone. Keep the cable run distance under 1,000 feet and away from AC power sources, light fixtures and electrical equipment.

### **Mounting**

The SM1 can be surface or flush mounted on ceilings or walls. For flush mounting, cut a 2 1/4" by 2 3/4" hole in the wall or ceiling tile to allow room for the circuit board and mount the SM1 to the surface with screws. For surface mounting, purchase the SM1S surface mount adapter or use a single gang electrical box.

### **Adjusting the SM1 Gain**

Start with a midrange setting of the gain control on the SM1. Adjust the control (+) or (-) for maximum clarity. If the sound at the amplifier is distorted, rotate the control towards the (-) mark (counterclockwise). If the volume at the amplifier is too low, rotate the control towards the (+) mark (clockwise).

### **Setting the SM1 Jumpers**

The SM1 microphone has jumper selectable treble boost and limiter circuits. The treble boost circuit when jumpered in, emphasizes the high frequency sounds that the microphone picks up. This is useful for improving the sound quality on slow speed tape recordings (VCR time-lapse recordings). The limiter circuit, when jumpered in, automatically keeps the SM1's output at a relatively constant level. This eliminates the need for the listener to reduce the volume control on the amplifier when sounds get louder. Note: Do not use the SM1's limiter circuit if you are using a tape recorder or other device that uses an AGC or limiter circuit. Most tape recorders have limiter circuits. The recommended jumper settings are as follows:

	Monitoring Only	Recording Only
Limiter	IN	OUT
Treble Boost	OUT	IN

