

The SM7 is a complete stand-alone audio monitoring system that supports up to 4 microphone inputs. Microphones can be switched into the mix at different levels via the front controls. The SM7 can be used independently or with a CCTV system. The SM7 easily connects to recording equipment such as linear time-lapse VCRs and audio recorders.

Recorder switch

If the SM7 kit will be used with a recorder of some type, place the recorder switch in the “IN” position. In this position, both live audio and playback audio can be heard through the SM4’s internal speaker. In stand alone applications where there is no recorder or no need to playback recordings, place the recorder switch in the “OUT” position.

Headphone jack

Plug in a set of 3.5mm stereo headphones for private listening. The internal speaker of the SM4 will be automatically disabled until the headphones are unplugged.

Switcher / mixer mode.

To switch the SM4 between the “1 of 4” mode and the “mixer mode”, press and hold the CH1 button for 5 seconds. In the “mixer mode”, all channel lights will turn on. In the “1 of 4” mode, all channel lights will go out. The SM4 will remember the last setting and channels selected in either mode.

SM1 Microphone Placements

Locate the SM1 microphones as close as possible to the areas of interest in the spaces to be monitored. If large areas are to be monitored, locate the SM1s in the middle of the rooms. Do not mount the microphones near air conditioning vents, light fixtures or electrical equipment. The SM1 should be placed at as close as possible to the subject(s) to be monitored. The SM1s are usable at distances of up to 25 feet but is dependent on the level of background noise in the area. Experimentation in the environment will determine what distances work best.

Cable Run

Run 22 gauge, stranded, two conductor shielded cables between the SM4 mixer/amplifier and the SM1 microphones. Keep the cable run distance under 500 feet and away from AC power sources, light fixtures and electrical equipment. See *Figure 1 for connection diagram.*

Mounting

The SM1 can be surface or flush mounted on ceilings or walls. For flush mounting, cut a 2 ¼” by 2 ¾” 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, use a single gang electrical box.

Adjusting the SM1 Gain

The SM1 output level is set by selecting the desired volume range and adjusting the gain control.

The “Volume Range” switch should be set to the “LO” position when using the SM1 with IP cameras that utilize “microphone inputs” also known as “Mic. Level” inputs. This sets the maximum gain of the SM1’s pre-amp to x14. The switch should be placed in the “HI” position when using IP cameras with “Line level” inputs of DVRs and IP cameras. This sets the maximum gain of the SM1’s pre-amp to x196.

The SM1 is shipped with the gain set at midrange. If the sound at the “head end” is distorted, rotate the control towards the – mark (counter-clockwise). If the volume at the “head end” is too low, rotate the control towards the + mark (clockwise).

Setting the SM1 Hi-Cut/Lo-Cut Switches

The normal frequency response of the SM1 microphone is 350-12Khz. When both switched “in”, The “HI Cut” and “Lo Cut” filters set the SM1’s frequency response to 700-7Khz . Enabling one or both of the filters is useful when background

noise needs to be further reduced and intelligibility of speech emphasized. We recommend experimenting with the switch settings to achieve the best acoustic result for your application.

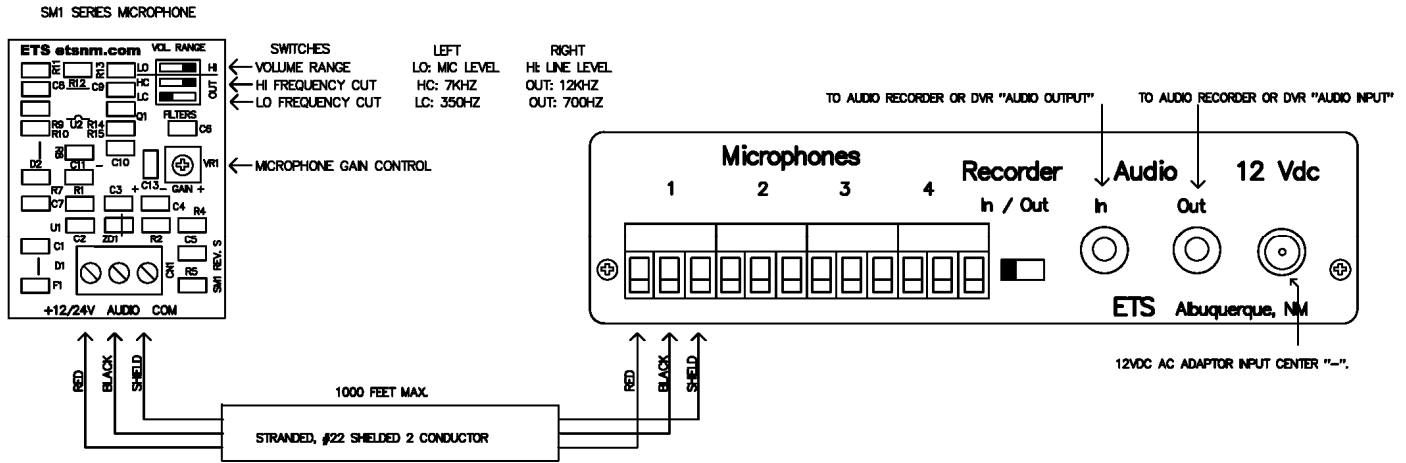


Figure 1

Caution

It may be against the law to install this microphone kit in certain environments. It may also be against the law to record conversations of the person(s) being monitored without their knowledge. It is the responsibility of the installation company and end-user to determine if the application of this product is legal. These laws vary from state to state. If you are not informed on these matters, consult a qualified attorney or contact the appropriate state agency. A sticker is provided with this kit for the applications where notification must be posted.

Warranty

All ETS products carry a one year parts and labor warranty. This warranty does not cover damages as a result of misuse, improper handling of the unit or exposure to extreme temperatures or moisture. At its discretion, ETS reserves the right to repair or replace this unit under the conditions of the warranty. If you experience problems with your equipment call ETS at: 505-888-3923 to obtain a return authorization number. Equipment requiring repair beyond the warranty period or units that have been damaged or are not covered under the warranty can be repaired by ETS for a minimal cost under most conditions.

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by
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