

The RDM-1 is a high quality, IP67 ruggedized, surface mount, omni-directional, pre-amplified microphone with enhanced features for use with DVRs, IP cameras, etc. Note- the audio output of the RDM-1 is switch selectable “line level” (0db) or “microphone level” (-30db).

SM1 Microphone Placement

Do not mount the microphone near air conditioning vents, light fixtures or electrical equipment. The RDM-1 should be placed as close as possible to the subject(s) to be monitored. The RDM-1 is useable 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. Note- RDM-1 has a directional pickup pattern so it's best to point it as much as is possible at the subject of interest.

Cable Run

Run a 22 gauge, stranded, two conductor shielded cable between the RDM-1 microphone and the monitoring device. Keep the cable run distance under 1,000 feet and away from AC power sources, light fixtures and electrical equipment. Connect power to the + terminal, the audio signal to the “audio” terminal and ground to the – terminal. The Ground of the power and audio signal must share a common ground for proper operation. *See Figure 1 for connection diagram.*

Mounting

The RDM-1 is designed to be surface mounted. A vibration dampening option is available to reduce mechanically induced noise.

Adjusting the Lo-Cut and Hi-cut filters

The RDM-1's high and low frequency response can be trimmed to reduce background noise. If you are primarily interested in capturing conversations and want to reduce air conditioning and other noises, rotate both controls (hi-cut and lo-cut) to just short of full clockwise. Experimentation with the settings may be required to achieve the best results for a given environment.

Adjusting the Automatic Gain Control

The RDM-1 features automatic control of gain. This is useful for environments where it is anticipated that sound levels will range from quiet to loud. The best way to set this control is to adjust it to a comfortable volume level (on an ETS base station or PC monitor speakers) when the loudest sounds are present and constant. Turning the control + CW will increase the amount of gain reduction during loud sound intervals. If the sound is reduced too much during loud sounds, turn the control - CCW a small amount and continue experimenting until a comfortable medium is found.

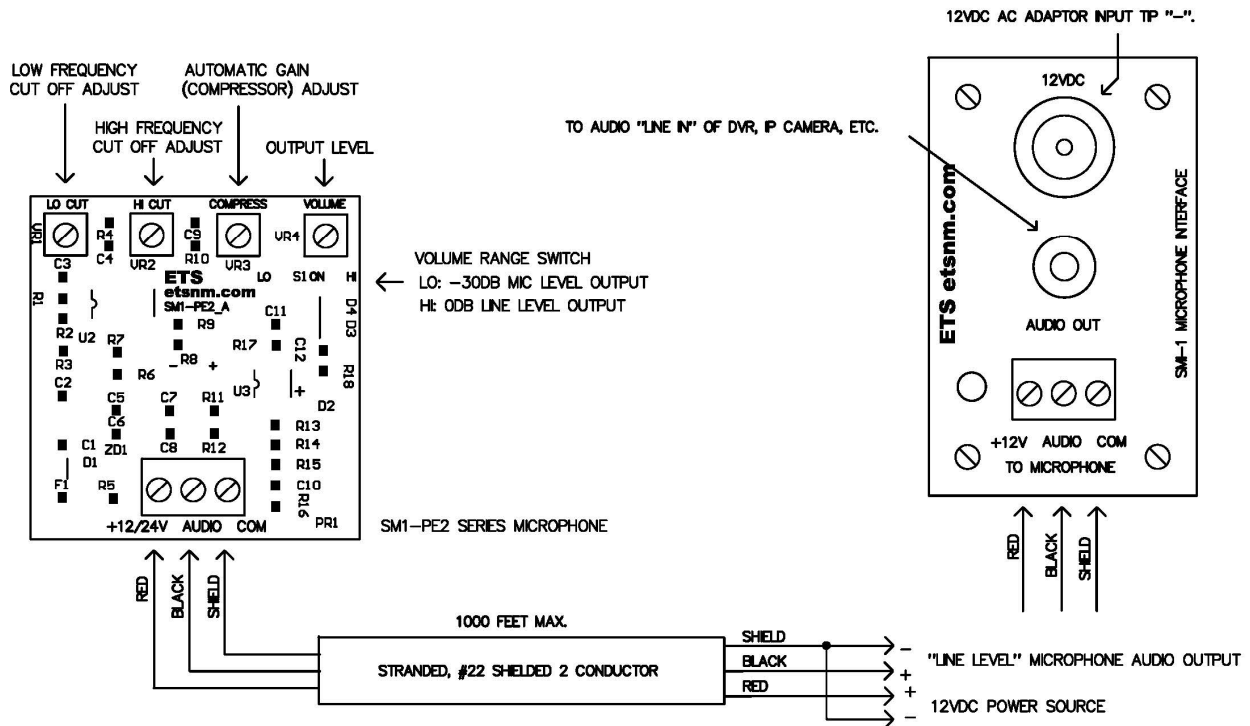
Adjusting the RDM-1 Volume

The RDM-1 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 RDM-1 with IP cameras that utilize “microphone inputs” also known as “Mic. Level” inputs. This sets the maximum gain of the RDM-1'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 RDM-1's pre-amp to x196.

The RDM-1 is shipped with the Volume set at midrange. If the sound at the “head end” is too loud and / or distorted, rotate the control - CCW. If the volume at the “head end” is too low, rotate the control +CW.

IP67 rating note-

In order to maintain the microphone's IP67 rating, the cable gland must fully grip the cable entering the housing in such a way that does not permit the cable to move when pulled with heavy force.



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.

Made in the USA

By

ETS Inc.