

# ETS Inc. HSM8D-C5 Speaker / Microphone Instructions

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The HSM8D-C5 is a combination 10W 70V speaker and **pre-amplified** microphone designed to be used in outdoor applications. The HSM8D-C5 is designed to directly interface with the ETS SMA1-xx for connection to DVRs, IP cameras, etc. but, can be used with other compatible equipment. **Note- to prevent unwanted feedback, use this product with systems supporting PTT (push to talk) half duplex audio or full duplex audio systems using acoustic echo cancelling technology**

## HSM8D-C5 Microphone / Speaker Placement.

Locate the HSM8D-C5 speaker / microphone near the area of interest in the space to be monitored. If a large area is to be monitored, locate the HSM8D-C5 in the middle of the space if possible. Avoid mounting the speaker / microphone near air conditioning vents, light fixtures or electrical equipment. The HSM8D-C5 should be placed as close to the subject(s) as possible. 5 to 10 feet is ideal. The HSM8D-C5 is still usable in the range of up to 50 feet in public address applications 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 a single CAT5 cable from the HSM8-C5 Speaker / Microphone and the SMAx-xx interface box. Keep the cable run distance at or below 500 feet and away from AC power sources, light fixtures and electrical equipment. Wire the RJ45 cable connectors in the following order:

Pair 1	1	CALL SW
	2	CALL SW
Pair 2	3	SPEAKER (70V) +
	4	SPEAKER (70V) –
Pair 3	5	MICROPHONE +
	6	MICROPHONE –
Pair 4	7	+12V (MICROPHONE)
	8	COM (MICROPHONE)

## Call Switch Connections

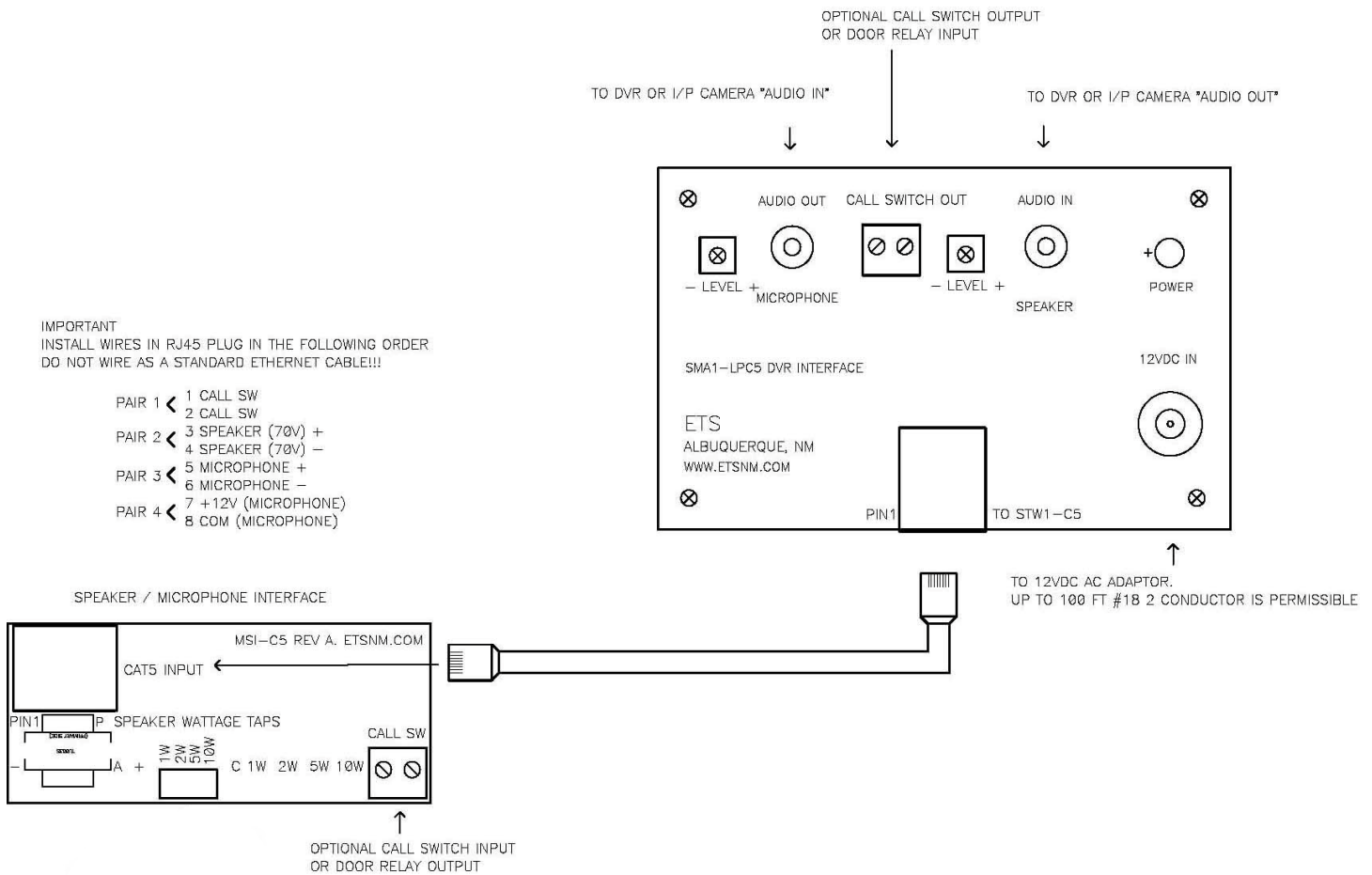
The HSM8-C5 features a call switch input. This pair of wires is isolated from all other circuitry and can be used for a call switch, door contact, door release relay, etc. Terminal block connections are “broken out” on the HSM8-C5 and any ETS SMAx-LP interface ordered with the –C5 option.

## HSM8D-C5 Connections

The HSM8D-C5 is designed to be mounted on ceilings or walls and features up/down adjustments for directional aiming. Make wire connections inside the weather tight box on the back of the HSM8D-C5 and screw the lid down. Mount the speaker in a fashion that does not allow water to directly flow (from driving rain etc.) inside the junction box. Sound levels for the speaker and microphone are user adjustable on the SMA1-xx interface box.

Note- Microphone and speaker volumes cannot be adjusted on the HSM8D-C5. Adjustments to volume levels can be done at the other end of the cable on the connected ETS equipment or in the head end software of your system.

**Note– for use only with ETS base stations and interfaces with the –C5 option**



### 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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