

# ETS Inc. STW1-MC-C5 Speaker/Microphone Instructions

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The STW1-MC-C5 is a two-way audio surveillance speaker/microphone for connection to DVRs, IP cameras etc. The STW1-MC-C5 can only be used with ETS SMAx-LPxx-C5 DVR & IP camera interfaces. **Note- this equipment is intended for use with camera or VMS software that has a PTT (push to talk) half duplex option for two-way audio. If your software does not support this mode you may get acoustical howling feedback.**

## STW1-MC-C5 Speaker / Microphone Placement.

Do not mount the STW1-MC-C5 near air conditioning vents, light fixtures or electrical equipment. Locate the STW1-MC-C5 as close as possible to the subjects of interest. The STW1-MC-C5 is 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.

## Speaker/Microphone Cable Run

Run a single CAT5 cable from the STW1-MC-C5 Speaker / Microphone and the SMAx-LPxx-C5 interface box. Keep the cable run distance at or below 1000 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)

## Mounting

To flush mount the STW1-MC-C5 on ceilings or walls, we recommend using a single gang remodel box found at any hardware store. The STW1-MC-C5 can also be mounted in a surface mount single gang. If used outdoors, the sealing gasket must be used if the STW1-MC-C5 will be directly exposed to the elements.

## Call Switch Connections

The STW1-MC-C5 features a call switch. Terminal block connections are available on the ETS SMAx-LPxx-C5 interface for connection to an IP camera or DVR dry contact alarm input.

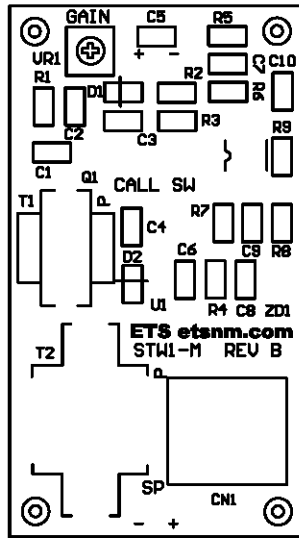
## Adjusting the Microphone “Gain” and SMAx-LPxx-C5 Microphone “Level”

If the SMAx-LPxx-C5 will be plugged into a “microphone level” input of an IP camera, set the gain on the STW1-MC-C5 to one eighth turn clockwise from full counter clockwise, then use the microphone level control on SMAx-LPxx-C5 to produce the clearest audio level at the head end. If the SMAx-LPxx-C5 will be plugged into a “line level” input of an IP camera, set the gain on the STW1-MC-C5 to mid-point from full counter clockwise, then use the microphone level control on SMAx-LPxx-C5 to produce the clearest audio level at the head end.

## Adjusting the speaker volume

STW1-MC-C5 speaker volume can only be adjusted on the SMAx-LPxx-C5 at the other end of the system. Adjust this level to produce the clearest audio level on the STW1-MC-C5

**MICROPHONE GAIN**



TO ANY ETS INTERFACE BOX WITH -C5 OPTION  
1000 FEET MAX CAT 5/6 CABLE

WIRE CAT5/6 CABLE THIS WAY ONLY

- PAIR 1 < 1 CALL SWITCH
- 2 CALL SWITCH
- PAIR 2 < 3 70U SPEAKER +
- 4 70U SPEAKER -
- PAIR 3 < 5 MICROPHONE AUDIO +
- 6 MICROPHONE AUDIO -
- PAIR 4 < 7 MICROPHONE 12V+
- 8 MICROPHONE COM

**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.**