

Mute Magic (referred to as *mM*)

Description, Installation, Operating Instructions, etc (10-6)

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Description

mM attempts to act as you would when a commercial break is entered and you wish to mute the TV. To do this it must see the Video, hear the Audio, and have the ability to send a Mute command to the TV.

Seeing the Video:

mM sees the Video via the connection between the Composite Video Out Jack of your Set Top Box (usually yellow) and either of its Video In connectors (they are internally tied together in case it is necessary to loop the Video).

Hearing the Audio:

mM hears the Audio via the small directional microphone, which must be placed on or very close to a TV speaker.

Issuing the Mute Command:

mM issues your TV's Mute command via the external IR Diode, which must be placed so that the IR Receiver on the front of your TV can detect its output.

Note: A Mute Command will not be issued to a TV that is muted, nor will an Unmute Command be issued to a TV that is unmuted.

Required

A Composite Video Output is required. This is usually a Yellow RCA Jack labeled Video Out on the set top box. Without it video, *mM* will not function.

Disclaimer

M7M is not 100% accurate. Being there is no foolproof method of differentiating program from commercial material, it will on occasion miss the start of some commercial breaks, may not always immediately restore audio when the program material returns, and it may function better in some programs than in others.

Note: It is strongly advised that you disable **M7M** when watching movies or other commercial free material.

Physical Location of **M7M**

The unit may be located anywhere in relation to your TV. Just remember that if you desire to Disable or Enable, or change modes you must point your remote at **M7M**'s IR Receiver, which is located on the front of the unit, instead of your TV.

Connections

Refer to the included Connection Diagram to connect the IR Diode, Microphone, Video and Power.

Setup

The setup procedure will test the following in this order:

- That Video is present
- That Audio can be detected
- That it can successfully Mute/Unmute your TV.

Power Up and the learning of your Mute Command:

1. After making the Video connection, plugging in the microphone, and the IR Diode, plug in the power connector.
2. When power is applied, the upper of **M7M**'s two front panel green LEDs will start flashing at half-second intervals.
3. While the Upper LED is flashing, point your remote directly at the IR Receiver on the front of **M7M** (round hole) and press your Remote's Mute Button one time, just as if you were muting your TV. **M7M** will learn the command.

Note: do not hold the mute button as it will repeat and **M7M** may learn the command twice, which will cause an immediate Mute/Unmute when **M7M** issues the command.

Note: As shipped from the factory, **m7m** has no code in memory, and with no code in memory, the upper LED will flash until the unit sees an IR command. If the unit is powered up with a code in memory, the upper LED will flash only 20 times (10 seconds). If no code is detected in this time period, **m7m** will skip setup, revert to Mode 2 and use the code it has in memory.

Testing for the presence of Video:

After your Mute Command has been learned, **m7m** will immediately look for the presence of Video at the Video input. If Video is found, it will advance to testing for Audio. If no Video is detected, the front panel LEDs will flash alternately, about 4 times per second, until Video is detected,

Testing for the presence of Audio:

After Video has been detected, **m7m** will immediately start looking for the presence of Audio (be sure your TV is unmuted).

Position the directional microphone on a TV speaker, or as close as you can to one.

When Audio is detected, both front panel LEDs will be ON, when there is no audio, they will both be OFF. What you should see is the LEDs flashing to the rhythm of the Audio you are hearing. Move the Mic around to get the brightest LED activity, and then fasten it securely in place.

Note:

If you mute you TV during the Audio test, you should see no front panel LED activity whatsoever. This is important because it is necessary that **m7m can detect both Audio and the absence of Audio.**

To exit the Audio Test, and enter the Mute Test, point your remote at **m7m** and hold down your Mute Button until Both LEDs light solid, and then release the button. This can take some seconds, depending on the repeat rate of your handheld remote.

Testing for the ability to Mute and Unmute your TV:

During the Mute Test, **m7m** will send the Mute Command it learned out the IR Diode every 2 seconds. It will alternately flash **m7m**'s upper and lower LEDs when it sends the command.

Now is the time to position the IR diode in front of your TV's IR receiver so that your TV Mutes and Unmutes **reliably** at these 2 second intervals.

Once this condition has been obtained, fasten the IR Diode so it will remain where you positioned it.

Note: If this Mute/Unmute condition cannot be obtained, unplug **mM** and try learning the command again. If after several attempts, it still cannot be obtained; there is no sense in continuing. Return **mM** for a refund.

To exit the Mute Test, and enter the normal Mode 2 operation, again point your remote at **mM** and hold down your Mute Button until Both LEDS light solid, and then release the Button. Depending on your remote, this can take some seconds. **mM** is now operating in Mode 2 (Mute and Unmute).

Read Operations on how to disable, change to Mode 1 (Mute only), or re-enter the setup mode.

Operations

Mode 2: (Both LEDS on)

Mode 2 is the normal mode, and is entered following setup; in this mode **mM** attempts to both mute and unmute.

Note:

*When **mM** issues a Mute Command to mute the TV, it will begin to slowly flash the Lower LED. This flashing will continue until **mM** issues a Mute Command to Unmute the TV, or the user un-mutes it.*

Mode 1: (Upper LED on)

In Mode 1, **mM** will only mute; un-muting is left to the user.

Disable/Enable

To disable **mM**, point your remote directly at its IR Receiver and hold your Mute button until both LEDs are off, then release the button.

To re-enable **mM**, point your remote directly at its IR Receiver and hold your Mute button until the LED(s) light, then release the button.

Note:

*When watching DVDs, and programs without commercial breaks, it is highly recommended that you disable **mM** to prevent the possibility of unintended mutes.*

Changing Modes:

To change modes, point your remote directly at **mM**, and hold your Mute button right through Enable/Disable, and until the Upper LED is lit for Mode 1, or both LEDs are lit for mode 2. The rotation between Mode 1 and Mode 2 will continue until you release the Mute button, or you hold long enough to re-enter the Setup Mode.

Re-Entering the Setup Mode without removing power:

Point at **mM**; press and hold your Mute button. Hold it until both LEDs begin to flash very rapidly, then release. After a few seconds the flashing will stop and the upper LED will begin to flash at half-second intervals indicating it is ready to learn a Mute Code, and start setup.

If no code is entered in the 10 second period, **mM** will skip setup and enter Mode 2.

What's Included

The **mM** unit (4" x 3" x 1")

IR Diode on 10' cable

Directional Microphone on 10' cable

RCA to RCA Video cable (6')

Wall Mount Power Supply (110/220Volt Input, 5V DC output, with 6' cord)

Installation and Operation Instructions

Troubleshooting

Q *I can't get a reliable continuous Mute/Unmute situation after **mM** learns my Mute code.*

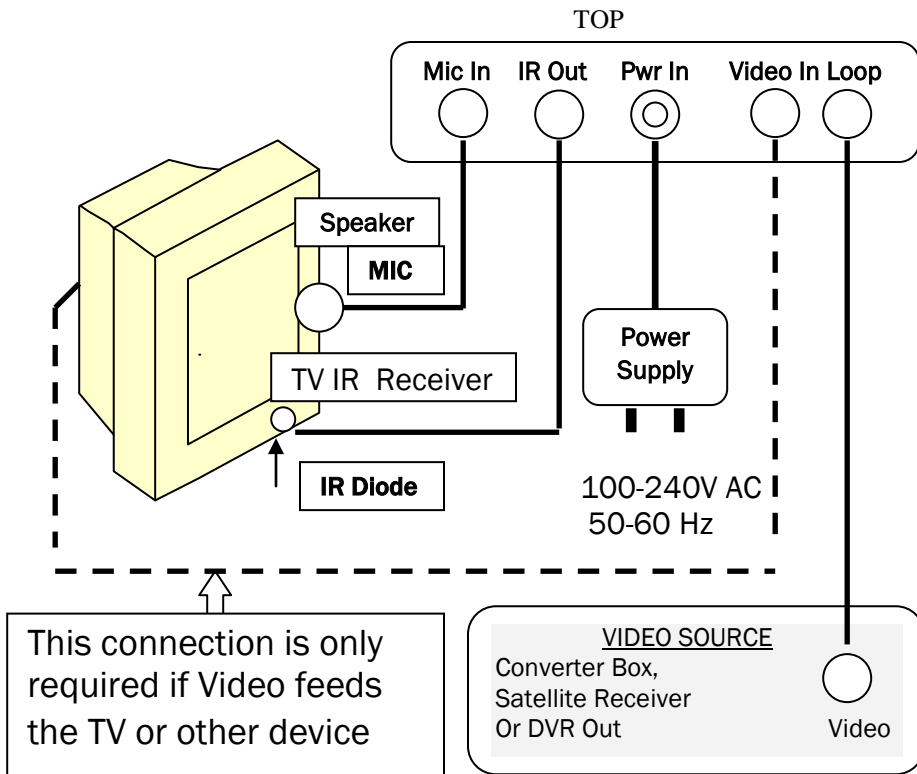
A If this happens, remove and reapply power to start again, this time holding your Mute button a bit longer. If the problem is not resolved after a few tries, please email us at support@ MuteMagic.com, as it may mean that for some reason **mM** is unable to duplicate your Mute code.

Q *I got through setup Ok, but **mM** never mutes my TV during commercials.*

A There are several possibilities here:
If the lower LED is flashing during a commercial break, it means that **mM** has detected the Break, and has issued the learned Mute Command, so the problem may be that the IR diode has been moved, is bad, or perhaps just disconnected.
If the lower LED does not flash during a commercial break, it means that **mM** has not detected the Break, and has not issued the learned Mute Command, so it could be that the Mic has moved from the speaker, or become disconnected, in which case **mM** can detect no audio, and thinks the TV is already muted.
Another possibility is that the Video has been disconnected.

Mute Magic Connection Diagram

MuteMagic as viewed from rear



If the connection from your Video Source to your TV is an HDMI cable, do not change it. Connect the supplied cable from the Video Out Jack on your Video Source to either of the Video Input Jacks on **Mute Magic**.

If the connection from your Video Source to your TV is the Video Out Jack, unplug it from the TV and plug it in to either of the Video In Jacks on **Mute Magic**. Then connect the supplied video cable from the other **Mute Magic** Video In Jack to the TV.