

PM Cv1 & PM Cv2 Software v2.2 Instructions

Congratulations! Your PM Cv1/v2 has been updated to the latest software version. These instructions are an update/amendment to the printed instructions that were originally included with your device. Should you have any questions or need any support, please visit the website at <http://audiodane.dandk.org>.

How Do I Know What Software Version I Have?

The software version is indicated by the LED pattern during power-up upon installation:

- **V1.0 (original PM Cv1) & v2.0 (original PM Cv2):** Both LEDs light up and remain lit for five (5) seconds
- **V2.2 (this update):** Both LEDs light up for two (2) seconds, then blink off-on-off, then light up for two (2) seconds

New Features in v2.2 Software

- **During power-up**, switch #1 now selects between the automatic or manual mode. For USA TV Models, power-up is when the TV is plugged in after installing the device. For non-USA TV Models, power-up is when the TV is switched on but still in standby mode.
 1. When the switch is positioned "ON" (PM Cv1: towards "GO"; PM Cv2: towards "LED ON"), the device is in **automatic mode** and everything continues to operate as it always has (with the exception that switch #1 no longer affects the mode of the LEDs [always-on or off-when-idle]).
 2. When the switch is positioned "OFF" (PM Cv1: towards "UN"; PM Cv2: towards "LED OFF"), the device enters **manual mode** and the device will only act when instructed.
- Since switch #1 has been re-purposed, the LEDs will now automatically turn off after about four (4) seconds. Any time the mode switch is changed or the TV is turned off, the LEDs will re-illuminate (red for undo, green for run) for about four (4) seconds to remind you that the device is installed and operating properly (and to indicate the current mode setting), and then turn off again.

NOTE: In automatic mode, the LEDs will illuminate solid. In manual mode, they will blink 4 times.

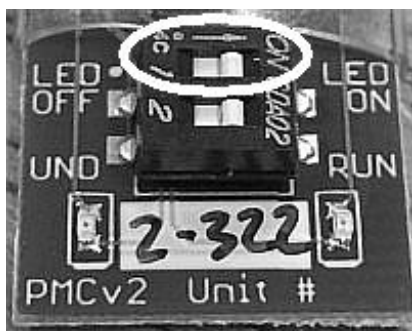
Selection of Automatic Mode or Manual Mode

Automatic or Manual Mode is selected when the device powers up (after the software version is identified through the LED indications mentioned above in "How Do I Know What Software Version I Have?"). Automatic Mode is selected by ensuring that switch #1 is positioned "ON" during power-up. Manual Mode is selected by ensuring that switch #1 is positioned "OFF" during power-up. Switch #1 is the switch farthest from the LEDs, and is indicated by a small number "1" on the black plastic around the switches themselves. Please see the diagrams below for examples. Switch #1 has been circled in each diagram to help identification.

NOTE: To change modes, remove power from the TV and adjust the position of switch #1.

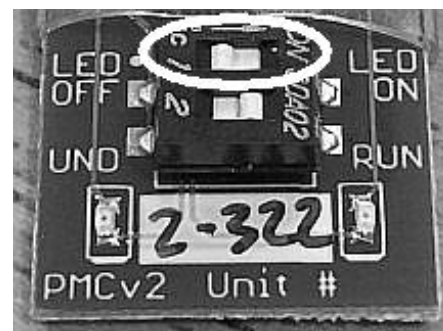
Automatic Mode

Switch #1 right (towards "LED ON")



Manual Mode

Switch #1 left (towards "LED OFF")



Automatic Mode Instructions

For most customers, it is recommended that you continue to use the automatic mode. To use the automatic mode, follow the normal instructions that were originally included with your device, ensuring that switch #1 remains positioned “ON” when first installed. This will enable the automatic mode.

Manual Mode Instructions

If the automatic mode does not work for your model or if you want exact control over when the black level resets occur, you may use the manual mode. To use the manual mode, follow the instructions below.

1. Turn off the TV.

For USA TV Models: Unplug the TV.

For non-USA TV Models: Put TV into standby mode and then switch off power to the TV.

2. Install the device into your TV’s service connector. Reference the original instructions for your device or see the website for additional details if necessary.
3. Enable the device’s **manual mode** by sliding switch #1 left towards the UNDO label. See the diagrams on the previous page if necessary.
4. Turn the TV on.

For USA TV Models: Plug in the TV.

For non-USA TV Models: Switch on power to the TV but keep the TV in standby mode.

5. The device will power-up, first indicating its software version (see previous page) and then will indicate that it is in manual mode by blinking it’s red or green LED four (4) times. The red or green LED indicates if the device is in RUN mode (reset black level) or UNDO mode (restore original black levels back to TV). Each time you change the position of the mode switch, the appropriate LED (red or green) will again blink four (4) times. This indicates that the device recognizes the change in the mode selection, as well as that it remains in the manual operating mode.
6. In this condition, the device is waiting for your next instruction. You may use your TV normally. The PMCV1/v2 device will do nothing more until you give it the next instruction.
7. To manually reset your black levels (or undo a previous reset):

- a. Ensure the TV is in standby mode.

For USA TV Models: Plugged in but turned off.

For non-USA TV Models: Power switched on but TV in standby mode.

- b. Slide switch #1 from the left to the right (towards the “LED ON” or “GO” label). The device will respond by blinking its red and green LEDs in an alternating pattern (red-green-red-green-...).
- c. Turn the TV on.
- d. The TV should turn on but show no picture. If your TV has fans in the back, you may hear them turn on. **NOTE: If your TV shows a picture, then the manual mode does not support your model TV. You may remove the device.**
- e. Slide switch #1 from the right back to the left (towards the “LED OFF” or “UN” label). The device will then perform the reset (or undo) operation. Upon completion the device will blink its LED once (success) or twice (failure) per second. After several seconds it will revert back to its waiting condition, blink its LEDs four (4) times, and then return to the idle state and the LEDs will turn off.
- f. Turn the TV off and then back on again (non-USA models: standby then out of standby) and enjoy!