

## CMX-144 Firmware Upgrade Readme

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Version 1.1  
3/22/2010

### CAUTION:

Before updating the firmware, make sure to write down any stored settings (Ethernet) that may be important. This firmware update changes the format of some of the saved data and thus forces an erase of the stored settings on the first boot.

1. IR timings improved for better compatibility with Control4 and URC remotes.
2. The Permanent Restriction feature no longer cancels when the zone that set the restriction switches off of the restricted zone.

In this revision, permanent restrictions prevent a particular zone from accessing a particular source indefinitely or until a deliberate allow command (Serial or Ethernet) has been issued to clear the restriction.

The commands for issuing a permanent restriction have been changed as follows:

1. [R,P,Z#,I#] activate a permanent restriction on the specified zone and input combination, preventing the zone from accessing the source input.
2. [A,P,Z#,I#] removes a permanent restriction by allowing the specified zone and input selection.

It is impossible to restrict any zone from accessing at least one source.

3. Modified the [?] serial command to display the table of zone/source mappings including restrictions:
  1. Z# represents ZONE # and S# represents input source #.
  2. X represents the currently selected input source
  3. V represents the currently selected video source (break-away)
  4. A represents the currently selected audio source (break-away)
  5. T represents a source that is unavailable to be selected due to a temporary restriction.
  6. P represents a source that is unavailable to be selected due to a permanent restriction.

Example table:

|    | S1 | S2 | S3 | S4 |
|----|----|----|----|----|
| Z1 | X  |    | P  | P  |
| Z2 | T  | X  |    |    |
| Z3 | T  |    | V  | A  |
| Z4 | P  |    |    | X  |

This table is to be read as:

- Zone1 is connected to source 1, is unable to select source 3/4 due to permanent restrictions, and has a temporary restriction active which prevents all other zones from accessing source 1.
- Zone 2 is connected to source 2 and is unable to select source 1 due to the temporary restriction active on zone 1.

- Zone 3 is viewing source 3 and listening to source 4. It is unable to access source 1 due to the temporary restriction active on zone 1.
- Zone 4 is connected to source 4 and is unable to select source 1 due to a permanent restriction.

The command is now [?,(V),(X),(Z#)]:

1. [?] displays the table.
2. [?,X] displays all zone video/audio selections, temporary restriction status, and minutes until expiration.
3. [?,Z#] displays only the specified zone video/audio selection and temporary restriction information.