

Home Network Sciences

HC CCTV MODULATOR Instructions

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HC CCTV MODULATOR

The HellermannTyton HC CCTV MODULATOR is a wideband modulator which takes in a CCTV and SCART video/audio signal and modulates the signal to a configured channel for distribution over standard coaxial cable.

Note: This document is intended to be used in conjunction with the UHF Channel and Frequency Guide, available for download from the download section of <http://www.homenetworksciences.com>.

Locating the HC CCTV MODULATOR

The HC CCTV MODULATOR is typically located near to the source or fitted inside the Home Networking Chassis (near to the TV distribution system).

Note: The HC CCTV MODULATOR must be used indoors.

Connecting the HC AM8 audio hub

The connections are as follows: -

| Interface | Location | Signal | Orientation |
|-------------|---------------------------|-----------------|--------------|
| SCART | Located on front panel | Audio and Video | Input |
| CCTV (RJ11) | Located on the rear panel | Audio and Video | Input |
| Coaxial | Located on the top | Audio and Video | Input/Output |
| RCA | Located on rear panel | Audio | Input |



Figure 1: Location of interfaces and connections

Setting the UHF channel

SW1-6 = UHF channel adjustment (21-69)

The HC CCTV MODULATOR is factory preset to CH58. To alter these settings please follow the procedure as set out below:

The exact UHF output channel is selected by using a combination of the dip switches (1 to 6) on the bottom of the modulator. Each switch has a value (as printed on the panel), when a switch is in the ON position (up) its value is added to 20 to give the output channel frequency of the modulator.

For example: SW 1 ON Gives $20 + 1$ UHF CH21

SW 5 ON Gives $20 + 16$ UHF CH36

SW 5 & 1 ON Gives $20 + 16 + 1$ UHF CH37

Using this method of switch selection enables any individual UHF channel across the entire UHF frequency band to be accurately set.

SW 7 = PAL I/G Audio (ON for use in the UK / OFF for use in Countries which use PAL G Standard Transmission)

SW 8 = Test Bar Signal tuning aid.

Tuning in to the UHF channel

Select an unused channel on the TV/VCR in use. Set the desired UHF output channel following the instructions on previous page ensuring switch no. 8 is ON (this will operate the on screen tuning aid).

Tune a spare channel on your TV/VCR following the instructions supplied with your TV / VCR until the test signal is clear (two vertical white lines on black background).

Now the test signal can be switched off (switch 8 off) and the camera or source picture will be displayed on the screen.

If there is any interference on any of your TV channels it is possible that you are transmitting over an existing channel. Please select another channel on the modulator and retune your TV/VCR.

Note: For more information on UHF frequencies and channel selection please consult the UHF Channel and Frequency Guide, available for download from the download section of <http://www.homenetworksciences.com>.

Specification

| | |
|-------------------------|------------------------|
| Operating Voltage | 12V DC |
| Current Consumption | 100 mA (Max) |
| Camera Input Signal | 1V pk-pk |
| UHF Output Signal | PAL I & PAL G |
| UHF Output Range | Channel 21 to 69 |
| UHF Gain | 3dB |
| Operating Temperature | 0°C - 40°C |
| Weatherproofing | IP30 (indoor use only) |
| Size (excluding cables) | 120mm x 67mm x 40mm |
| Weight | 250g |
| Carton Size | 315mm x 173mm x 64mm |