



Product Code: CCT818

*ANTIhum.com*

## Digital Modulator Instructions

## Features

- Tunable output channel from 21-69,
- Push button channel selection,
- Microprocessor tuning,
- Channel Memory,
- Audio input,
- LED channel display,
- Easy to fit F Connector,
- 240vAC,
- Rack Mount

## Front Panel



- LED camera channel number display 1 ~ 8
- Channel Up selector for RF channel (21 ~ 69)
- Menu to select different camera channel (1 ~ 8)
- Channel Down selector for RF channel (21 ~ 69)
- Adjustments for Audio and Video Inputs

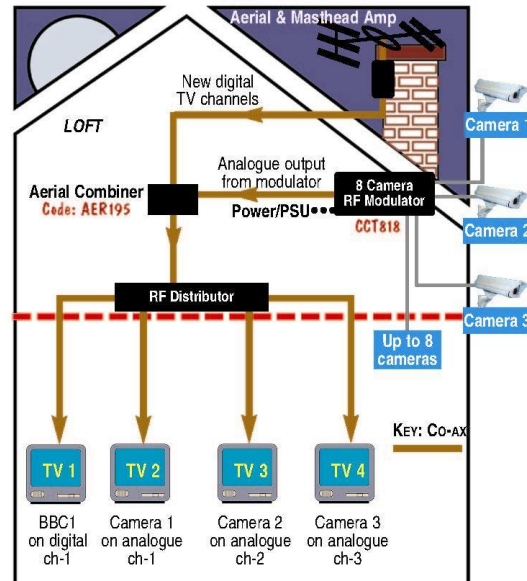
## Rear panel



- AUDIO IN: 1 ~ 8 White Phono Audio Inputs
- VIDEO IN: 1 ~ 8 Red Phono Video Inputs from CCTV Cameras, VCRs, DVRs, Camcorders or TV Game inputs
- RF ADJUSTMENT: Blue RF Adjustment Control
- RF F connector
- 240vAC Main Power input

## Installation

1. Connect video and audio inputs via phono connections at back of unit.
2. Connect RF out using F connector co-ax lead into the analogue aerial downlead using an aerial combiner part number AER195 prior to any RF distributor.
3. Plug in the power connector into 240vAC mains supply.



## Channel Programming Steps

1. On the front panel you will see the channel 1 LED illuminated. This refers to the video and/or audio connected to channel 1 inputs. Each channel has a default video frequency channel starting from 55 and increasing in steps of 2. Using these avoids programming.



2. If you are unable or cannot use the programmed settings you can change them using the following steps. With a straightened paperclip you can change the channel selection by pressing the button in the hole above the MENU. By pressing this button the selection will move through the eight channels.

3. You will notice that each video/audio channel will show in the LCD display window the frequency channel number prefixed with a 1. For example audio/video channel 1 may have 155 which is frequency channel 55 and audio/video channel 2 may have 157 which is frequency channel 57. You can select from 121 ~ 169 which is frequency channels 21 ~ 69.

4. Using a paperclip press the button in the hole above UP to select the next ascending frequency channel number and by pressing the button in the hole above DOWN to select the next descending frequency channel number.

5. Of course channels must be set so they do not conflict with existing channels but with the demise of analogue TV channels, separation and selection are now much easier.

## Adjusting Audio/Video Frequency Channels

1. On the front panel you will see trimmers for audio and video. Use a small screwdriver to obtain best video and audio for each individual channel.



2. On the rear of the modulator you will see a blue RF ADJ control and the F connector for RF out. Use the RF adjuster to lower or increase RF gain. This will affect all channels.



## Connect the F Connector to the aerial cable

1. Remove 13mm of the outer brown/black sheath of the co-ax cable by cutting through the sheathing with a sharp knife. Take care not to cut through the cable braiding below, which will be exposed when you remove the outer sheath. See photo. Push back the inner braid over the outer brown sheath of the cable, as shown.



2. Using a sharp knife cut through the insulation of the cable that protects the inner core to expose approximately 10mm of the inner cable core



3. Screw an F Connector on to the end of the cable so that the connector's threads tighten around the outer braids. The solid copper conductor may protrude from the end of the F Connector, if so, using a pair of side cutters, trim this flush with the end of the F Connector. Make sure that the center core of the cable is aligned with the middle pin socket of the F socket, insert the connector and tighten using the end screw nut.



Frequency Table.

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
21	471.25	34	575.25	47	679.25	60	783.25
22	479.25	35	583.25	48	687.25	61	791.25
23	487.25	36	591.25	49	695.25	62	799.25
24	495.25	37	599.25	50	703.25	63	807.25
25	503.25	38	607.25	51	711.25	64	815.25
26	511.25	39	615.25	52	719.25	65	823.25
27	519.25	40	623.25	53	727.25	66	831.25
28	527.25	41	631.25	54	735.25	67	839.25
29	535.25	42	639.25	55	743.25	68	847.25
30	543.25	43	647.25	56	751.25	69	855.25
31	551.25	44	655.25	57	759.25		
32	559.25	45	663.25	58	767.25		
33	567.25	46	671.25	59	775.25		

Specifications.

RF Output Frequency Range	470-860 MHz
Output Channels	21 - 69
Output Impedance	75Ω
Video Input	8 channels video input 1volt p-p
Audio Input	8 channels audio input
RF Output	Adjustable - F Plug type connection
Power Input	240vAC mains
Size	430(L) x 178(W) x 40(H) mm
Channel Memory	Settings stored on EPROM so retaining settings over power cut
Mounting	1U Rack Mount

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