Other video products from Keene Electronics Keene RF through modulator

Designed to be put in-line with aerial in and out connections, the video and audio signal can then be put into any UHF channel

(from 30 – 40) desired. Ideal for use with CCTV security cameras and VCRs without RF output. Supplied complete with either UK style mains adaptor (order code KRFT) or Euro style mains adaptor (order code KRFTE).



Keene wideband through modulator

Our RF wideband modulator enables a camcorder, security camera, VCR or other device with AV (audio video) output to be connected to the aerial socket of a TV. If required, it can be permanently connected into the RF aerial downlead. The AV signal can be positioned on any vacant RF channel between 21 and 69. This means, for example, that the signal from a security camera could be introduced into the aerial lead and viewed in the same way, and as easily, as any normal broadcast signal. An additional feature of the Keene unit is that because it uses dip switches, the settings will be saved in the event of a power

failure. Supplied complete with clip-in bracket for skirting board/loft mounting and either UK style mains adaptor (order code KRFTW) or Euro style mains adaptor (order code KRFTWE).



Keene distribution amplifier

4 way composite or S-video plus audio, each output indistinguishable from the input, ideal for making up to four simultaneous multiple copies. Uniquely the Keene Distribution

Amp also has a switchable line drive feature, giving the ability to send audio and/or video over much longer cable runs than normally possible (up to 100m dependant on cable). It works by applying a signal boost



with emphasis on higher frequencies and use of wideband ICs with very low output impedance. Supplied complete with either UK style mains adaptor (order code KDA) or Euro style mains adaptor (order code KDAE).



Keene Scart Distribution Amplifier

One input to five outputs, fully buffered using broadcast grade video amplification ICs. Pin 8 is routed through (if the input goes high all the outputs go high) and every pin connection is carried through making it suitable for composite, S-video and even RGB. Supplied in a robust metal case this is ideal for displaying one signal on multiple TVs or for making up to five

simultaneous copies from one source. Supplied complete with either UK style mains adaptor (order code SDA) or Euro style mains adaptor (order code SDAE).



Keene Electronics RF Modulator

Operating instructions

Overview

By converting video and audio signals to an RF signal, the Keene RF Modulator allows the AV output of a camcorder or other device to be fed to a standard television receiver through its aerial socket.

Typical applications include the connection of a camcorder, video recorder or SAT receiver to a television set which has only a



standard aerial input; it can also be used to feed the signal from a TV surveillance camera into a domestic cable installation.

The Keene RF Modulator will handle VHS, VHS-C and video 8 signals, as well as composite colour signals, with mono sound.

Connection and operation

- · Make sure all devices are switched off before connecting.
- Connect the 'audio' output (often a black/white RCA phono socket) of the source (output) device to the 'audio in' (RCA phono socket) of the RF Modulator. If the output device provides stereo audio, ie there are two audio out sockets, connect the left (L) audio channel only.
- Connect the 'video' output (normally a yellow RCA phono socket) of the source device to the 'video in' (RCA phono socket) of the RF Modulator.
- Connect the 'RF out' lead of the RF modulator to the TV aerial socket. If a TV aerial is to be connected simultaneously, then a selector adaptor will be required.

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- Ensure that the RF Modulator has a suitable power supply (see next section), switch it on, and check that the unit's 'power' LED is illuminated.
- Switch on the camcorder (or other device) and put into 'play' mode.
- Switch on the TV, select a vacant channel, and tune until the
 picture from the output device becomes clear (refer to TV
 instruction manual for correct procedure). If the TV already has
 a channel tuned to your VCR, or a spare channel designated
 specifically for use with a VCR, best results will be obtained by
 using that channel. When tuned, make a note of the channel
 number and store for future reference.

Powering the RF Modulator

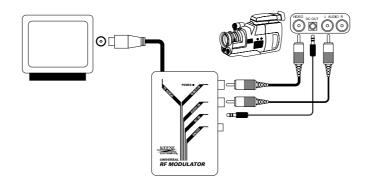
The RF Modulator will work with any power source supplying 4–15V DC @ 25mA. This includes an internal battery, the source camcorder or a suitable mains to DC transformer.

Internal battery. Place a 9V PP3 type battery in the battery of the RF Modulator. Ensure correct polarity.

Camcorder battery. Most camcorders feature a 'DC out' jack socket, usually located between the video and audio connections. Use the power cable supplied with the RF Modulator to connect this to the 'DC in' socket of the RF Modulator. Note that if using this method for powering the device, the 'power' LED will not illuminate until both the RF Modulator and the camcorder are switched on.

Mains/DC adaptor. The RF Modulator 'DC in' connection is a 2.1mm DC jack socket. The unit will work with any input voltage from 4–15V DC @ 25mA, for example as output by the Keene KT5 (with 3 x 'square' pin mains input connector) or the Keene KT5E (2 x round pin Euro-style mains input connector) mains adaptors.

Typical connection of the RF Modulator with camcorder as output device.



Connecting cables

If all connections are as described earlier (ie phono socket to phono socket video plus phono socket to phono socket audio, then a 2 x phono plugs to 2 x phono plugs (video + audio) cable such as Keene Electronics KLD44 will be required. If the output device has other types of connection for video and/or audio output, see below:

Source machine AV output	Keene Electronics cable code
3 x RCA phono sockets	KLD44
2.5mm AV jack	KLD68
Scart socket	KLD5
8-pin mini socket	KLD17
BNC socket (video) + 2 x phono sockets (audio)	KI D44 + KA115

Troubleshooting

Power LED doesn't light.

Is the RF Modulator switched on?

Is there a power supply connected?

If battery, is the battery correctly installed, and fresh?

If power from camcorder, are the video, audio and power leads connected correctly, and is the camcorder switched on

(many camcorders have auto shutdown function)?

If mains/DC convertor, is it plugged in and switched on?

No picture on TV

Are all devices correctly connected (in particular have the audio and video connections between camcorder and RF Modulator got reversed)?

Is the correct TV channel selected?

Technical data

Input: Video 1 Vpp/75 ohm

Output: PAL I (UK, Hong Kong and South Africa

Black & white or colour with audio

Factory preset UHF channel 36

Modulation depth: 75%

Dimensions: approx 110 x 70 x 25mm

Weight: approx 200g

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