

Triax Tri-Link Kit USER'S MANUAL



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1. Safety Precaution

- To avoid electrical shock, do not take apart this device.
- This device should use only the power supply included with it or provided as an accessory.
- Do not overload wall outlets and extension cords as this can result in the risk of fire or electrical shock.
- Do not attempt to service this device yourself. Refer servicing to qualified personnel only.

2. Technical Specification

ITEM	DESCRIPTION
	Modulator
TV System	PAL- I
Tri-Link Output Frequency	UHF: 470~856MHz (21-68CH ; Default Channel: CH36)
Modulator Output Level (on RF1/RF2 OUT)	72dBuV+/-4dB
Gain (RF IN - RF1/RF2 OUT)	10dB+/-2dB
Return Path Gain(4MHz~8MHz)	> 10dB(Peak Point:18dB+/-2dB)
Carrier/Noise Ratio	>48 dB
RF Input Connector	F(f)
RF Output Connectors	F(f)
AV Input/Output Connectors	Euro SCART
DC IN Connector	F(f)
IR Connector	3.5mm Socket
Video Input	1.0Vp-p/75 Ω
Audio Input	1.0Vp-p/600Ω
Power Indicator	Green LED
DC Output (RF2)	Regulated 9VDC 250mA
Level Adjustment	20dB
Maximum Output Level @60dB IMA3,EN50083-5	90dBuV

IR Transmitter	
Connector	3.5mm Plug
Peak Wavelength	940nm
View Angle	40 deg.
Cable Length	800mm
Power Adapter	
Input Voltage	230V/50Hz AC
Output Voltage	12V/500mA DC
Output Connector	F(f)
Compact Digital Link Eye	
Input Signal Frequency	37.9KHz Carrier (Infra-red system)
Input Connector	F female
Remote Control Distance	Up to 10 m

3. Kit Content

1. Tri-Link x1



2. Power Supply (12VDC/500mA) x1



3. IR Transmitters x1



4. Triax Compact Digital Link x1



6. User's Manual x1

Triax Tri-Link Kit
USER'S MANUAL



4. Installation and Operating Instruction

i. Panel Function

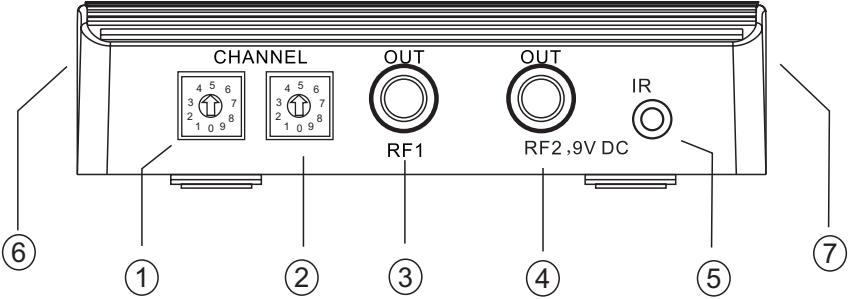


Fig.1 Front Panel of Modulator

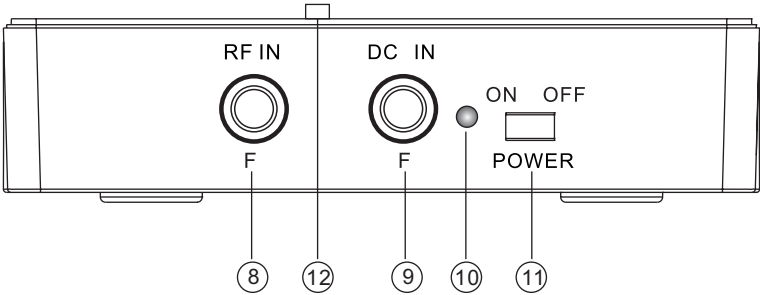


Fig.2 Rear Panel of Modulator

- 1 & 2: Channel Selection Switches
- 3: RF Output 1
- 4: RF Output 2
- 5: IR Transmitter Jack
- 6: A/V Input (SCART Socket)
- 7: A/V Output (SCART Socket)
- 8: RF Input
- 9: DC Power Input
- 10: Power LED Indicator
- 11: Power Switch
- 12: Gain Control

ii. Installation

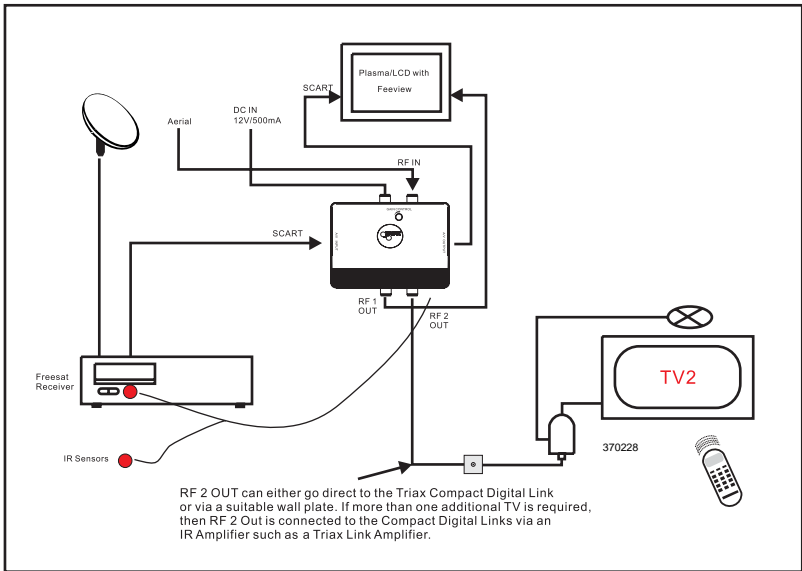


Fig.3 Basic Application Diagram for single additional TV

1. Connect the A/V signal source to the A/V Input of the Tri-Link with a SCART lead.
2. Connect the A/V Output of the Tri-Link to the A/V input of the 'local' TV set with a SCART lead.
3. Connect the Off-Air TV and/or other RF signal sources to the RF IN connector of the Tri-Link.
4. The Input A/V signal is modulated to a RF signal and combined and amplified with the RF signals on RF IN. These combined RF signals are present on RF 1 OUT and RF 2 OUT of the Tri-Link.
5. RF 1 OUT of the Tri-Link can be connected to the 'local' TV. (if required).
6. RF 2 OUT is connected to the home distribution system. This configuration will vary depending on individual system requirements. RF 2 OUT is connected to additional TV's via Triax IR Amplifiers, (if there is more than one additional TV on the system), and Triax Compact Digital Link's. (one Compact Digital Link is provided in the Tri-Link Kit).

Note: RF2 OUT carries 9VDC. Do not connect RF2 OUT directly to a TV aerial input. It should be connected to the TV via a Triax Compact Digital Link.

7. Plug the IR transmitters into the IR jack on the Tri-Link. Two IR Transmitters are provided to control up to two additional receivers.
8. Adjust the position of the IR Transmitter toward the IR sensor on the receiver front panel for optimum reception.
9. Plug the power supply provided into the DC Input of the Tri-Link.
10. The RF input level can be adjusted using the gain control potentiometer.

iii. Operating Instruction

1. Make sure the power supply is connected to the DC Input of the Tri-Link. Turn the power switch to “ON”, the LED power indicator lights up.
2. There is 10 dB gain from RF IN to RF1 OUT and RF2 OUT. This can be adjusted by up to 20 dB using the potentiometer, i.e. it can be set so that there is between +10 dB gain and -10 dB of attenuation between RF IN and RF OUT 1 & 2.
3. When the A/V signal source is connected to the Tri-Link, there will be a modulated RF output. If there is no input A/V signal present, the modulator output automatically switches off.
4. The Channel Selection Switches are used to set the required modulated output channel. Switch 1 selects tens and Switch 2 selects units, i.e. to set the modulated output to Ch 21, set switch 1 to ‘2’ and switch 2 to ‘1’.
5. At any of the additional TV's, when the remote control is aimed at the Triax Compact Digital Link, the modulated IR control signal passes through the coax cable to the Tri-Link RF 2 Out. It is then demodulated and sent to the IR transmitters to control the receivers. If a B SkyB receiver is part of the system, then the modulated IR control signal passes through the Tri-Link, to RF IN, where it controls the B SkyB receiver via its RF Out 2 port.

5. Troubleshooting

i. No Image or Sound

- Make sure the power switch is switched to the “ON” position
- Check all cables and connectors.
- Make sure the TV(s) are correctly tuned.

ii. Poor picture quality

- Make sure the TV(s) are correctly tuned.
- Ensure that the modulated output channel is not interfering with any other RF channel on the system.
- Ensure that the RF signal levels are correct
- Check all cables and connectors.

6. Frequency Table

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