



DECLARATION OF CONFORMITY

TRIAX confirms that the product conforms to relevant EMC and LVD Directives (2004/108/EC and 2006/95/EC) harmonized standards and consequently can carry CE-mark.

Relevant harmonized standards:

EMC: EN 55013:2001/A1:2003/A2:2006, EN 55020:2007+A11:2011,

EN 61000-3-2:2006/A1:2009/A2:2009, EN 61000-3-3:2008

LVD: EN 60065:2002+ A1:2006+A11:2008+A2:2010+A12:2011

KONFORMITÄTSEKTLÄRUNG

TRIAX beståttigt, dass das Produkt die EMC und LVD Richtlinien (2004/108/EC und 2006/95/EC) der harmonisierten Normen erfüllt und folglich das CE-Zeichen tragen darf.

Relevante harmonisierten Normen:

EMC: EN 55013:2001/A1:2003/A2:2006, EN 55020:2007+A11:2011,

EN 61000-3-2:2006/A1:2009/A2:2009, EN 61000-3-3:2008

LVD: EN 60065:2002+ A1:2006+A11:2008+A2:2010+A12:2011

OVERENSSTEMMELSESEKTLÆRING

TRIAX bekræfter, at dette produkt opfylder de relevante EMC og LVD direktiver (2004/108/EF og 2006/95/EF) og harmoniserede standarder og dermed kan bære CE-mærket.

Relevante harmoniserede standarder:

EMC: EN 55013:2001 / A1: 2003/A2: 2006, EN 55020:2007 + A11: 2011,

EN 61000-3-2:2006 / A1: 2009/A2: 2009, EN 61000-3-3:2008

LVD: EN 60065:2002 + A1: 2006 + A11: 2008 + A2: 2010 + A12: 2011

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User manual

TFM 02

TRIAX IR link modulator



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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.

Caution: Changes or modifications not expressly approved by the Party responsible for compliance could void the user's authority to operate the equipment.

2. Technical Specification

ITEM	DESCRIPTION
Modulator	
TV System	PAL- G / I
Modulator Output Frequency	UHF: 470~862MHz (21-69CH ; Default Channel: CH36)
Modulator Output Level (on RF1/RF2 OUT)	72 dBuV ± 4dB
Gain (RF IN - RF1/RF2 OUT)	-10~10dB Adjustable
Return Path Gain(4MHz~8MHz)	> 10 dB (Peak Point:18dB+/-2dB)
Carrier/Noise Ratio	>48 dB
Noise Figure	< 4dB
Maximum Output Level @60dB IMA3,EN50083-5	90dBuV
RF Input Connector	F(f)
RF Output Connectors	F(f)
AV Input/Output Connectors	RCA Port
DC IN Connector	Ø5.5*2.1 Socket
IR Connector	3.5mm Socket
IR Link Control Carrier Frequency(RF2 OUT to RF IN)	On-off keyed 7.2MHz
Video Input	1.0Vp-p/75 Ω
Audio Input	1.0Vp-p/600Ω

CH Indicator	Two Bit 7-segment LED
DC Output (RF2)	Regulated 9VDC 100mA
Power Adapter	
Input Voltage	100~240V 50/60Hz AC
Output Voltage	9V/600mA DC
Output Connector	5.5*2.1 DC Plug

3. Kit Content

Modulator x1



Power Adapter (9VDC/600mA) x1

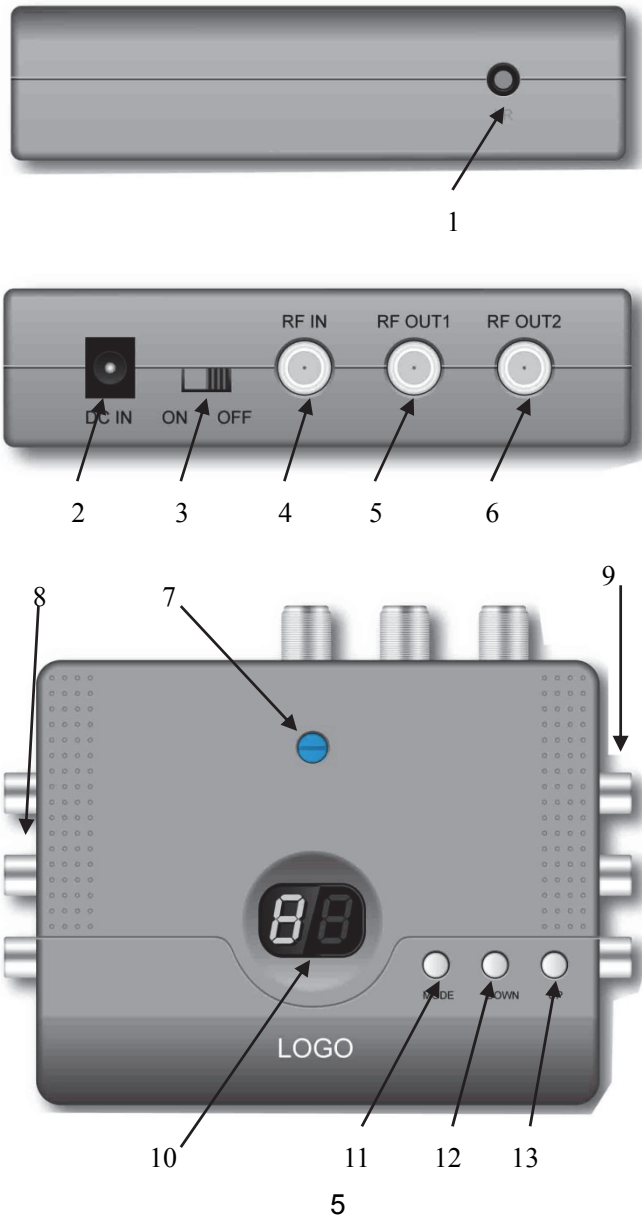


User's Manual x1



4. Installation and Operating Instruction

i. Panel Function



- 1: IR Transmitter Jack .35mm mono phone plug
- 2: DC Power Input. 9V DC
- 3: Power Switch
- 4: RF Input. This port can output 7.2MHz remote signal
- 5: RF Output 1
- 6: RF Output 2. This port output 9Vdc and input 7.2MHz remote signal
- 7: Gain control. Rotate this component can control the gain from RF input port to RF1 output and RF2 output port
- 8: A/V Input (RCA Socket) include one video input port and two audio input ports
- 9: A/V Output (RCA Socket) include one video output port and two audio output ports
- 10: Display Screen. It can display CH number and audio carrier frequency.
- 11: Mode Switch. This button can switch between PAL-G and PAL-I system, 5.5 means PAL-G system and 6.0 means PAL-I system.
- 12: Channel Down Switch.
- 13: Channel Up Switch.

ii. Installation

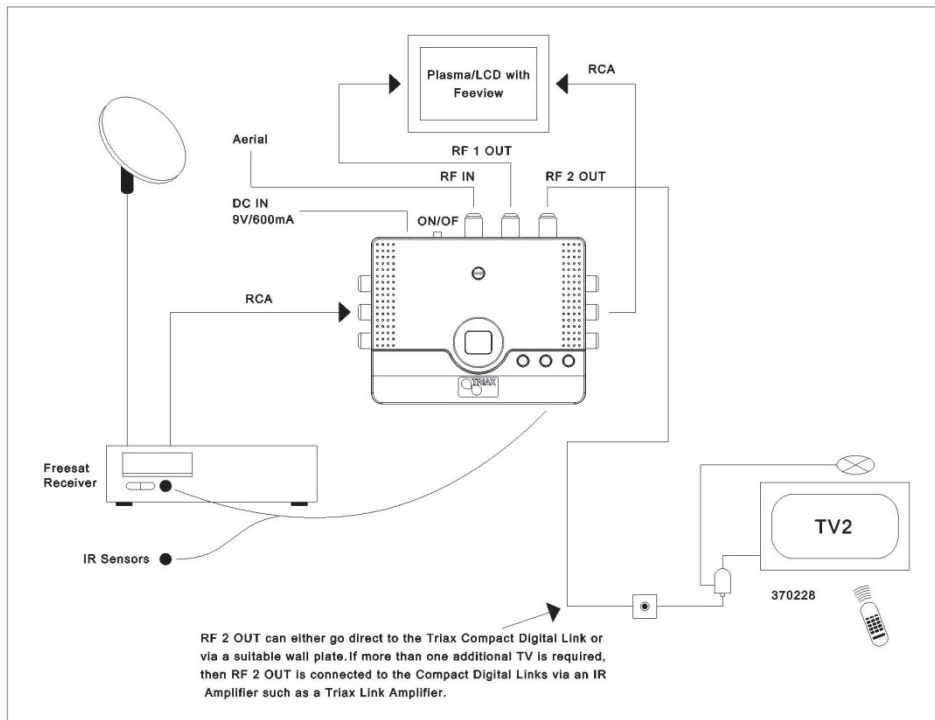


Fig.3 Application Diagram

1. Connect A/V signal source port to A/V Input on the modulator with RCA connector cable.
2. Connect A/V Output of the modulator to A/V Input on TV-like device set with RCA connector cable. A/V signals can be transferred from A/V Output of the modulator to A/V input of TV set.
3. Plug the provided power adapter into DC Power Input of the modulator.
4. Connect local cable TV or other signal source to RF IN of the modulator

with RF cable.

5. The A/V signal from A/V Input is modulated as the RF signal, combined and amplified with the RF signal from RF IN, (then) output via RF 1 OUT and(or) RF 2 OUT of modulator.
 6. Connect RF 1 OUT of the modulator to the main TV set in the lounge to watch programs.
 7. Connect RF 2 OUT to a spare room TV set through an additional RF cable and Digital Link Eye (optional) .
- Note: RF2 OUT IS WITH 9VDC voltage. Do not connect RF2 OUT to TV set directly without Digital Link Eye.**
8. Plug the IR transmitter into IR jack on the modulator. Adjust the IR sensor toward the A/V signal source for an optimum reception.

ii. Operating Instruction

1. Make sure the power adapter is connected to DC IN of the modulator. Turn the power switch to “ON”, then the CH number on Display Screen lights up.
2. There is -10~10dB (adjustable) gain from RF IN to RF1 OUT and RF2 OUT. When the power is on, the signal from RF IN can output to RF1 OUT and RF2 OUT without additional amplifier.
3. Use Channel Selection Switches to select the desired channel. Push the up or down button firmly, the CH will be changed continuously, then release the button until the CH stopping at your favor.
4. When the A/V signal from A/V signal source is fed to the modulator, there will be the modulated signal output from the modulator. There won't be any modulated signal output without A/V signal input.

5. Use the mode switch to change TV system, two figures will display on Display Screen, 5.5 or 6.0, and 5.5 means audio carrier frequency is 5.5MHz, PAL-G system. Whereas, 6.0 stands audio carrier frequency is 6.0MHz, PAL-I system. Pushing CH switch or holding with no operation after one minute will exit mode state.
6. To watch the local cable TV programs from RF IN, the A/V signal from DVD or Satellite Receiver must be turned off.
7. With A/V signal source remote controller aiming to the IR sensor of Digital Link Eye, the controlling signal transmits through the RF cable to the modulator, then outputs by IR transmitter to control the A/V signal source. And if your signal source is SKY satellite receiver, it can be controlled without IR transmitter, because its signal directly runs from RF output to RF Input on modulator.

5. Troubleshooting

i. No Image or Sound

- Make sure the power switch is switched to “ON” position
- Check the connections of all connectors and plugs
- Make sure the modulation and TV are tuned to the same channel

ii. Intermittence of Image and Sound

- Make sure the modulation and TV are using the free channel。
- Shorten the distance of the signal transmission medium between modulator and TV
- keep the coaxial cable away from other cables if possible

6. Frequency Table

Channel	Frequency MHz	Channel	Frequency MHz	Channel	Frequency 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
				69	855.25