

**VERY IMPORTANT NOTE, READ CAREFULLY**

*This device is a low power modulator for cable distribution of audiovideo signals. Use of this device for other purposes (e.g., wirelessly) may be in violation of local laws/regulations, depending on your area. If unsure, please check with your local telecommunications authorities.*

***Under no circumstances should it be used in violation of any such laws/regulations. The responsibility for legal/proper usage rests solely on you!***

For technical support write to: support@aspisys.com or

ASPiSYS Ltd., POB 14386, Athens 115 10, Greece (EU)

Or call: (+30) 210 771-9544 FAX: (+30) 210 771-4983. We are in the GMT+2 time zone.

**Technical Specifications**

**RF SECTION**

Output Frequency	45 MHz to 860 MHz
Visual Carrier Stability	±1KHz (Standard Channels)
Aural Carrier Stability	±1KHz
Antenna Connector	F type female
Output Level	80dB $\mu$ V
Output Impedance	75 $\Omega$
Audio Level Control	Factory preset
RF video/audio modulation system	DSB

**VIDEO SECTION**

RED PHONO JACK

Input Type	Analog Negative Sync. Composite Video PAL – NTSC – SECAM (L)
Input Level	0.7 Vp-p to 1.5 Vp-p for 87.5% modulation
Input Impedance	75 ohms, unbalanced
Frequency Response	±1.2 dB
Signal to Noise Ratio	>60dB
Different Gain	±3%
Different Phase	±3°

**AUDIO SECTION**

WHITE PHONO JACK

Input Level	0.35V RMS for 25 KHz peak deviation
Input Impedance	>10K $\Omega$ unbalanced
Pre-emphasis	75 or 50 $\mu$ S auto-settled for country system
Frequency Response 30Hz – 15KHz	0.75 dB
Total Harmonic Distortion	<1.0%

**GENERAL SECTION**

DC Input Power	0.5 Watt max
DC Voltage	9 – 13.8V (Center positive 2.1mm plug)



# TVSENDER MODULATOR v1.15

## Modulator System for Television

*Usage Instructions, December 18, 2010*

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Manufactured by:

**ASPiSYS Ltd.**

*P.O. Box 14386, Athens 11510, GREECE (EU)*

*<http://www.aspisys.com>*

Connect audio to the white RCA jack.  
 Connect video to the red RCA jack.  
 Connect the F-Type antenna output for signal distribution.  
 Connect a power supply of 9-12VDC (center positive) to the corresponding jack.

The unit has a single push button and a triple LED. The button is located between the power supply jack and the RF (antenna) connector, while the LED is between the two RCA jacks. The bottom side is the one with the screws.

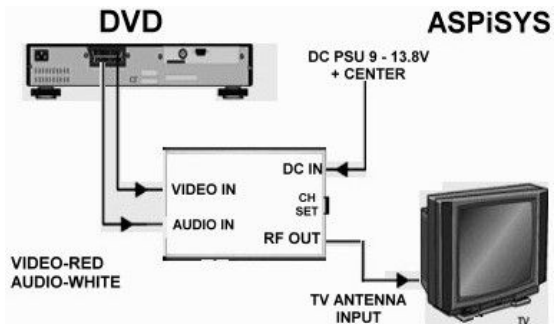
The button has triple function:

- If kept pressed while powering up the unit, instead of changing channels (see below), we will be changing sound systems.
- When pressed for less than 2 seconds, the modulator output will toggle between RCA and TEST (a black screen with two vertical white bars and 1 KHz sound). In TEST mode one or more LED remain on. In normal (RCA input) mode the LED go off almost immediately.
- When pressed for more than 2 seconds the transmission channel (or sound system) will start changing for as long as we keep the button firmly pressed.

The LED will light up according to the following sequence depending on the frequency band (left column), or sound system (right column) the unit is currently at:

<u>If changing channels</u>	<u>If changing systems</u>	<u>LEDs</u>
○ VHF I	or PAL/BG	<b>Lower LED</b>
○ VHF II	or PAL/DK	<b>Middle LED</b>
○ UHF	or NTSC/MN	<b>Upper LED</b>
○ S-VHF Low	or PAL/I	<b>Lower + Middle LEDs</b>
○ S-VHF Hi	or SECAM/L	<b>Middle + Upper LEDs</b>

When we change channel(s) or *sound* system(s) the triple LED will remain lit (according to the band or sound system as described above) which means we are in TEST mode. To save the current settings in memory we press the button once more (briefly). The LEDs will go off which means we are in normal mode. From now on, the unit will always start at the programmed channel so that after a power failure it will return to the same channel it was before.



Thank you for purchasing the TVSENDER MODULATOR by ASPiSYS Ltd. The TVSENDER MODULATOR is a broadband modulator for television. *The unit requires 9-12VDC for operation.*