

VERY IMPORTANT NOTE, READ CAREFULLY

This device is a low power modulator for cable distribution of audio/video 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. The

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 ± 1 KHz (Standard Channels)
Aural Carrier Stability ± 1 KHz
Antenna Connector F type female
Output Level 80dB μ V
Output Impedance 75 Ω

Audio Level Control Factory preset

RF video/audio modulation system DSB

VIDEO SECTION

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

AUDIO SECTION

Input Level WHITE PHONO JACK
Input Impedance 0.35V RMS for 25 KHz peak deviation
Pre-emphasis >10K Ω unbalanced
Frequency Response 30Hz – 15KHz 75 or 50 μ S auto-settled for country system
Total Harmonic Distortion 0.75 dB
<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, May 12, 2009
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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.

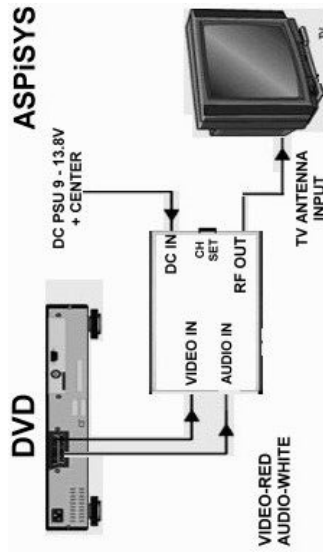
The unit has a single push button and a triple LED. The button is located between the power supply jack and the RF (antenna) connector, while the LED is between the two RCA jacks. The bottom side is the one with the screws.

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 the unit is currently at:

○ VHF I	or	PAL/BG	Lower LED
○ VHF II	or	PAL/DK	Middle LED
○ UHF	or	NTSC/MN	Upper LED
○ S-VHF Low	or	PAL/I	Lower + Middle LEDs
○ S-VHF Hi	or	SECAM/L	Middle + Upper LEDs

When we change channel(s) or 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 LED 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 ASIPIYS Ltd. The TVSENDER MODULATOR is a broadband modulator for television. *The unit requires 9-12VDC for operation.*