

## ASPiSYS KN-150 specifications

Input Signals	Red, Green, Blue with H&V Sync or CompSync or SoG
Input Levels	
Video	0.714Vpp typical, 1.5Vpp max non-comp, at 75 ohm H&V sync pulses TTL 5-V level, negative polarity. H-Frequency: 15625 KHz PAL/15734 KHz NTSC ( $\pm 2$ Hz) V-Frequency: 50 Hz PAL/59.95 Hz NTSC
Connector	Euro SCART
Output Signals	
Connectors	RCA Female (1) CVBS, 4-pin (1) S-Video, "F" (1) RFout
Output Levels	1Vpp composite video typical into 75 ohm 1Vpp Y signal typical into 75 ohm 280mV C burst pulse typical into 75 ohm 82db $\mu$ V RF level at VHF-III & S Channels
Video System	PAL
Chroma Frequency	Based on system specifications
RF Channels	2-12 VHF & S01-S41 (CCIR) & UHF 21-69
Video System RF	PAL/NTSC BG (depending on input).
Video Modulation	AM DSB
RF Power level	82db $\mu$ V @ 75 $\Omega$
Power	+12VDC (9-15V) @ 300mA, negative grounded
Dimensions	154 x 129 x 47 mm (6" x 5" x 1.85")
Weight	293 gr

To install the KN-150, no specialized technician is required.

FOR  
TECHNICAL SUPPORT, PLEASE CALL  
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# KN-150

## RGB/RGsB-to-PAL/NTSC Encoder

*Usage Instructions*

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## Description

KN-150 accepts analog RGB Video signals of 0.714Vpp level and 'converts' them to common Video which can be fed to a regular TV set through its antenna input! It has an F-type 82 dBμV output at channels VHF 2-4, S1-S10, 5-12, S11-S41 and UHF 21-69! Using the EURO-SCART jack you provide the RG(s)B video input, which is output on the RF OUT, Composite Video (using RCA), and S-Video (using 4-pin mini-DIN plug).

There is only one adjustment to be made on the device, the RF Out channel of operation.

On one side, you'll find:

1. One SCART jack
2. One little hole behind which there is a push button for selecting the RF output channel or for toggling between normal / test video outputs.

On the other side, you'll find:

1. One power jack (9-12 VDC) center positive or negative grounded.
2. One RF OUT (screwable) for connection to the antenna(s) of TV set(s).
3. One S-Video jack.
4. One CVBS (composite / RCA) jack.

**Warranty:** This device is covered by a two-year warranty for good operation. This warranty covers normal usage and is void if the device is either opened by any unauthorized person or if the device is subject to physical abuse (e.g., extreme shocks, extreme temperatures, water, etc.).

## Adjustments

The only adjustment possible on the device is via the channel selection push button which also lets you toggle between normal and test video output.

This push button is located behind the little hole next to the SCART jack. Press it **softly** using a thin screw-driver or a pen or a straightened paper clip.

The push button has a dual function:

1. If kept pressed continuously **for more than about (2) seconds** the device will start changing channels and do so for as long as the button is kept pressed, scanning from VHF 2-4 to S1-S10, 5-12, S11-S41, and then UHF 21-69 in a circular fashion. As soon as you can see the test screen on your TV set (two vertical white bars on black background), let go the button to stop on that channel.
2. Press momentarily – for less than about (1) second – to toggle between test screen (two vertical white bars on black background) and normal video (whatever you have connected at the SCART).

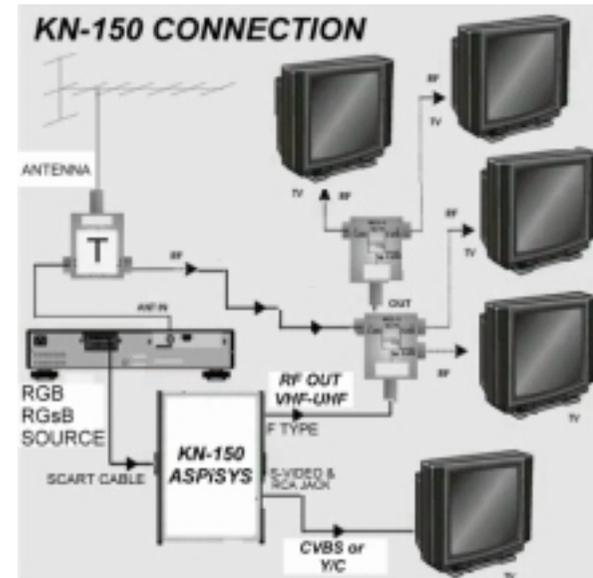
## Connections

The following connections are required for the correct operation of the device. Three simple steps.

1. Connect the SCART cable to the appropriate jack on the KN-150 device. The SCART cable must have the following pinout:
  - a. Pin 20: Horizontal or composite negative sync
  - b. Pin 19: Vertical or composite positive sync
  - c. Pin 15: Red
  - d. Pin 11: Green or Sync-On-Green
  - e. Pin 6: Audio (for RF modulator PAL/BG only)
  - f. Pin 7: Blue
  - g. Pins 4,5,9,13,14,17,18,21: Ground
2. Connect the RF OUT to your TV's antenna. Note: Use an attenuator if the signal is too strong. Optionally, you may connect the CVBS or S-Video outputs to appropriate inputs on the viewing device.
3. Connect a power supply 9-12 VDC (center-positive or negative grounded) to the corresponding jack on the KN-150.

If needed, you may connect all three outputs (RF, CVBS, S-Video) at the same time without problems.

For help, please consult the following diagram of a typical installation (using 3 antenna splitters).



Thank you for choosing our product.