

ASPiSYS KN-150 RGB-RGsB to PAL/NTSC Encoder & RF modulator



The **KN150** is an RGB/RGsB to PAL/NTSC video and S-Video encoder designed for industrial video applications. Also it has a **RF Video Modulator** for connecting it thru the antenna to multiply TV Sets!!! Is especially useful for recording the signal from one of the video sources (such as cameras), that do not produce Composite PAL/NTSC video or S-Video signals. The color subcarrier is locked to the horizontal frequency using advanced phase locked loop techniques. Input signal bandwidth is maintained on both the composite and S-Video outputs. The KN150 will auto detect (no-need to change any jumpers, etc.), the PAL or NTSC system and the required sync signal from input, allowing the Sync to also be applied as an external separate H-V or Composite Logic signal or can be present on the Green channel (**SOG**). The KN-150 will provide all the possible video outputs for connecting it at any TV Set including an RF Video Modulator output!

The unit is compatible with video sources that generate 0.714Vpp, interlaced or non-interlaced, analog RGB video and operate locking to horizontal frequency. Output will keep the scan format of the input. RGB inputs and the H-V Sync inputs are supplied from the standard EURO-SCART connector while the Composite video output is a female RCA and the S-Video output is a standard 4-pin mini-DIN type. Also an **RF OUT using an "F"** type connector provides Video Modulated signal **at VHF - UHF & S Band with 82 dbuV** to send it to more then one TV sets thru the Antenna input of them!!! The channel is settable with the press of switch.

Power the **KN150** encoder with a 9-12VDC 300mA WALL PLUG transformer

Board level versions (OKN150B) are available for OEM applications.

Note: The video input of the KN150, **MUST** have a horizontal frequency of **15.625KHz (PAL)** or **15.734KHz (NTSC)** +/-15Hz. If the RGB source has a horizontal frequency that is outside this range, the KN150 will produce a B&W display on a monitor or no display at all. This is due to the exacting standards of the PAL/NTSC video system. **KN150** is **NOT** a video scaler or a line doubler. Many video sources such as RGB video cameras will have the correct frequency. However, you **MUST** check your equipment specifications **before** purchasing the KN150. Thank you.

The KN150 has two-year warranty

For technical support call us at
+30 210 7719544

or e-mail us at support@aspisys.com

KN150 RGB - RGsB to PAL/NTSC Video Encoder
RGB or RGsB to PAL/NTSC composite video, S-Video Converter & RF

€ **CALL**
LIST PRICE

ASPiSYS Ltd. Electronics Design

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rgb@aspisys.com
<http://www.aspisys.com>

ASPiSYS KN150 specifications

<i>Input Signals</i>	<i>Red, Green, Blue with H&V Sync or CompSync or SoG</i>
<i>Input Levels</i> Video Sync	<i>0.714Vpp typical, 1.5Vpp max non-comp, at 75 ohm 5V TTL Negative polarity</i>
<i>Connectors</i>	<i>Euro SCART</i>
<i>Output Signals</i>	<i>Composite video (CVBS) and S-Video (YC)</i>
<i>Output Levels</i>	<i>1Vpp composite video typical into 75 ohm 1Vpp Y signal typical into 75 ohm 280mV C burst pulse typical into 75 ohm 85dbµV RF level at VHFIII&S Channels</i>
<i>Connector</i>	<i>RCA Female (1) CVBS -4-pin (1) S-Video - "F" (1) RF out</i>
<i>Modulation</i>	<i>R-Y and B-Y axes</i>
<i>Genlock</i>	<i>Combination Analog & Digital extraction - Synthesis</i>
<i>Sync</i>	<i>External H-V/Comp or Sync on Green (auto selectable)</i>
<i>Video System</i>	<i>PAL/NTSC</i>
<i>H Frequency</i>	<i>15.625KHz (PAL)/15.734KHz (NTSC) +/- 2Hz</i>
<i>V Frequency</i>	<i>50Hz (PAL)/59.95Hz (NTSC)</i>
<i>Chroma Frequency</i>	<i>Based at system specifications</i>
<i>Resolution</i>	<i>Greater than 420 lines (Y)</i>
<i>RF Channels</i>	<i>VHF - UHF & S (CCIR or FCC depending on country)</i>
<i>Video Modulation</i>	<i>AM DSB</i>
<i>RF Power level</i>	<i>82dbµV @ 75Ω</i>
<i>Temperature</i>	
Operating	<i>0 - 45 deg. C</i>
Storage	<i>-40 - 70 deg C</i>
<i>Humidity</i>	
Operating	<i>10% - 90% (non-condensing)</i>
Storage	<i>0% - 95% (non-condensing)</i>
<i>Power</i>	<i>+12VDC (9-15V) @ 300mA, negative grounded</i>
<i>Dimensions</i>	<i>154 x 129 x 47 mm (6" x 5" x 1.85")</i>
<i>Weight</i>	<i>293gr</i>

ASPiSYS Ltd

Tel: +30 210 7719544 Fax: +30 210 7714983

PO Box 14386 Athens 11510 GREECE

Email: kn150@aspisys.com

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rgb@aspisys.com
<http://www.aspisys.com>