

# IN1501

## COMPOSITE VIDEO TO S-VIDEO / S-VIDEO TO COMPOSITE VIDEO TRANSCODER



### FEATURES

- **Converts Composite Video Signals to S-Video**
- **Converts S-Video Signals to Composite Video**
- **Two Separate Circuits**  
Provides Both Conversions Simultaneously
- **Adaptive Comb Filter for High Quality Y/C Separation**
- **Color Bar Generator**
- **AGC Circuit**
- **Noise Filter**
- **Rack Mountable in 1U Space**  
Using Optional Rack Shelf

SIGNAL CONVERTERS

The IN1501 is a high quality bi-directional transcoder for Composite video and S-Video signals. Offering Composite video to S-Video decoding as well as S-Video to Composite video encoding, the IN1501 is an excellent choice for a variety of applications requiring video signal conversion between these popular video formats.

#### Composite to S-Video Decoding

The IN1501 provides excellent Composite video to S-Video decoding capability for NTSC and PAL signals. The unit features an advanced adaptive comb filter in the Y/C separation process which results in an S-Video output signal with greatly reduced cross color interference and dot crawl. An AGC circuit optimizes output signal quality by automatically adjusting for input video signals with non-standard signal amplitude. The video noise filter can be enabled or disabled using a switch located on the front panel.

#### S-Video to Composite Video Encoding

The IN1501 offers high quality S-video to Composite video encoding for NTSC and PAL signals.

#### High Quality Signal Conversion

Featuring advanced digital signal processing techniques, the IN1501 provides high quality video encoding and decoding.

#### Simultaneous Bi-Directional Operation

With separate circuitry for video decoding and encoding, the IN1501 is capable of providing Composite video to S-Video decoding for one signal while at the same time offering S-Video to Composite video encoding for a second video signal. Simultaneous bi-directional conversion adds great utility to the product since video encoding and decoding functionality are both available in a single compact unit.

#### NTSC / PAL Compatibility

The IN1501 is compatible with composite video and s-video signals in the NTSC and PAL standards. NTSC or PAL operation is selected via dipswitch.

#### Color Bar Generator

The IN1501 has an internal color bar generator that can be activated using a switch on the front panel. The color bar signal is available on the S-Video output only.

#### Rack Mountable

Two IN1501 transcoders can be rack mounted side-by-side in a 1U rack space using the optional IN9080 rack shelf. A single IN1501 can be rack mounted with the IN9080 rack shelf and the IN9088B blank panel.

### SPECIFICATIONS

#### INPUT

**Composite Video:** (1) BNC female  
**Signal Level:** 1.0 Vp-p typical, 75  $\Omega$  impedance  
**S-Video:** (1) 4-pin Mini-DIN female  
**Signal:**  
 Luma: 0.7 Vp-p typical, 75  $\Omega$  impedance  
 Chroma: 0.3 Vp-p typical, 75  $\Omega$  impedance  
**Standards Supported:**  
 NTSC / PAL B, D, G, H, I

#### OUTPUT

**Composite Video:** (1) BNC female  
**Signal Level:** 1.0 Vp-p typical, 75  $\Omega$  impedance  
**S-Video:** (1) 4-pin Mini-DIN female  
**Signal:**  
 Luma: 0.7 Vp-p typical, 75  $\Omega$  impedance  
 Chroma: 0.3 Vp-p typical, 75  $\Omega$  impedance  
**Differential Phase:** 0.5 Degrees  
**Differential Gain:** 0.5 %  
**Luma S/N Ratio:** >73 dB

#### GENERAL

**Power Supply:**  
 IN9223-1: 12VAC; 1.5A - U.S. Style / 120VAC external adapter included  
**Optional Power Supply:**  
 IN9223-5: 12VAC; 2.0A - IEC Socket / 230VAC/50Hz external adapter included  
**Shipping Weight:** 3 lbs. / 1.5 Kg  
**Product Weight:** 1 lb. / 0.45 Kg  
**Dimensions:** 1.65" x 8.5" x 6" / 4.2cm x 21.6cm x 15.2cm

**Regulatory Approvals:** UL1950, CAN/CSA-22.2 No.950, Third Edition; CE: EN55022 (1987), EN50081-1 (1991), EN50082-1 (1992 and 1994), EN60950-92

### ORDER INFORMATION

**IN1501** Composite to S-Video / S-Video to Composite Bi-Directional Transcoder

*Signal Converter Accessories — See Page 116*