

1T-PAL-NTSC is an ultra compact, high performance Standard Converter that converts any of the widely used world television standards to any others. In addition, it also corrects instabilities present in video signals. An Automatic Gain circuit insure correct output levels. Noisy or distorted sync pulses are replaced with reinserted, stable sync. Digital Comb filtering is applied to YC signals. Processing controls are provided for Brightness, Contrast, Color and Hue (NTSC).

1T-PAL-NTSC-GL provides all the features of the 1T-PAL-NTSC plus frame synchronization of incoming signals. A Genlock feature enables the incoming signal to be locked to an external video source.

Both units will either automatically detect the format standard in use or the user can manually select the standard. The Color level, Sharpness, Tint, Brightness and Contrast parameters of the input signal can be adjusted by the user.



Key Features of the 1T-PAL-NTSC Series

- Multi-standard for World TV Systems
- Full Frame TBC for all Inputs
- Comb Filter Decoding of the Video Input
- Integral Video Processor for Adjustments
- Genlocks to System Reference (1T-PAL-NTSC-GL)

Specifications

Video Inputs/Outputs

| | |
|-------------------|---------------------------------|
| Composite Video | 1x via BNC Connector |
| YC (S-Video) | 1x via 4-PIN Mini-DIN Connector |
| Genlock Input | via BNC (1T-PAL-NTSC-GL Only) |
| Genlock Loop-thru | with 75Ω Termination Switch |

Video Specifications

| | |
|------------------------|--|
| Impedance | 75Ω |
| Standards Supported | NTSC 3.58, NTSC 4.43, PAL-B, M, N, SECAM |
| System Memory | 6Mb |
| Sampling Frequency | Y:13.50 Mhz, R-Y:6.75 Mhz, B-Y:6.75 Mhz |
| Signal Processing | 8-bit |
| Line Conversion | 525/625 lines (Either Direction) |
| Field Conversion | 60/50 Fields (Either Direction) |
| Video Level Adjustment | Contrast, Brightness, Color, Hue (NTSC Only) |
| Frequency Response | 400 TV Lines |
| S/N Ratio | 50 db |

Control Method

| | |
|---------------------|-------------------------|
| Display | Front Panel LEDs |
| Front Panel Buttons | Up, Down, Reset, Select |

Warranty

Limited Warranty 1 Year parts and Labor

Mechanical

Size (H-W-D) 32x135x91.5mm (1.25x5.3x3.6")
Weight (Net) 330 g (0.73 lbs)

Environmental

Operating Temperature 0° to +50° C (+32° to +122° F)
Operating Humidity 10% to 90%, Non-condensing
Storage Temperature -10° to +60° C(+14° to +140° F)
Storage Humidity 10% to 90%, Non-condensing

Power Requirements

1x Power Adapter 12 VDC@1A

Regulatory Approvals

Standards Converter FCC, CE, RoHS
Power Supply UL, CUL, CE, PSE, GS, RoHS

Accessories Included

1 x Power Adapter US, UK or Euro
Operations Manual

Product Item Numbers

1T-PAL-NTSC Standards Converter
1T-PAL-NTSC-GL Standards Converter w/Genlock

Panel Drawings

