



## Standards Converters

Models 1T-PAL-NTSC, 1T-PAL-NTSC-GL *tvoneTASK*

**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 3 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

