



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

