

1T-PAL-NTSC-GL

Standards Converter

1T-TBC, 1T-TBC-GL

Time Base Correctors

Key Features 1T-PAL-NTSC-GL

- 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

Key Features 1T-TBC, 1T-TBC-GL

- Multi-standard for Worldwide TV Systems
- Comb Filter Decoding of the Video Input
- Integral Video Processor for Adjustments
- Genlocks to System Reference (1T-TBC-GL)



1T-PAL-NTSC-GL is an ultra compact, high performance Standards Converter that converts any of the widely used world television standards to any others. In addition, it also corrects instabilities present in, and applies frame synchronization to, incoming video signals. A Genlock feature enables the incoming signal to be locked to an external video source. 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-TBC is an ultra compact, high performance Multi-Standard Time Base Corrector designed to correct for time base errors in videotape playback or to correct for instability in most video signals. An integral Digital Processing Amplifier provides all the necessary adjustments to the video parameters. Black with color burst is sent to the output when the input video is not present. Composite and YC (S-Video) inputs and outputs are provided.

1T-TBC-GL provides all the features of the 1T-TBC and adds a Genlock feature that enables the incoming video signal to be synchronized to an external video source if desired.

Both models are 12VDC powered and the Power Adapters are included. Locking DC Connectors are provided for security. The Color level, Sharpness, Tint, Brightness and Contrast parameters of the input signal can be adjusted by the user.

Both Standards Conversion & Time Base Correction/Frame Synchronization are available as features on many of TV One's C2 products: C2-7000 Series, C2-5000 Series, C2-2355, C2-2350, C2-1350.

Standards Converters & TBC

Distributor / Vertrieb:

VIDELCO – Professionelle Audio- Video- Medien-Technik!
Tel.: +49 (0)2102 / 86 39-00 • Fax: +49 (0)2102 / 86 39-17 • info@videlco.eu • www.videlco.eu

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 |
| 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 | 2 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-GL | Standards Converter w/Genlock |
|----------------|-------------------------------|

1T-TBC, 1TBC-GL Specifications

Inputs/Outputs

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

Video Specifications

| | |
|------------------------|---------------------------------|
| Impedance | 75Ω |
| Television Standards | NTSC, PAL-B, G, N, M, SECAM |
| Signal Processing | 8-bit |
| Frequency Response | Flat to more than 20MHz |
| Chroma to Luma Delay | <=5nS |
| Differential Gain | <=0.5 % |
| Differential Phase | <=0.5 ° |
| Signal to Noise Ratio | Better than 60db |
| Video Level Adjustment | Luma, Chroma, Setup, Hue, Sharp |
| Filter Selection | Adaptive Comb, Low Pass |

Control Method

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

Warranty

| | |
|------------------|-------------------------|
| Limited Warranty | 3 Years Parts and Labor |
|------------------|-------------------------|

Mechanical

| | |
|--------------|-------------------------------|
| Size (H-W-D) | 30x133x90mm (1.2"x5.25"x3.5") |
| Weight (Net) | 310 g (0.69 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 Requirement

| | |
|-----------------------|--------------------------|
| External Power Supply | 12VDC@500mA - Locking DC |
|-----------------------|--------------------------|

Regulatory Approvals

| | |
|----------------|----------------------------|
| TBC Unit | FCC, CE, RoHS |
| Power Supplies | UL, CUL, CE, PSE, GS, RoHS |

Accessories Included

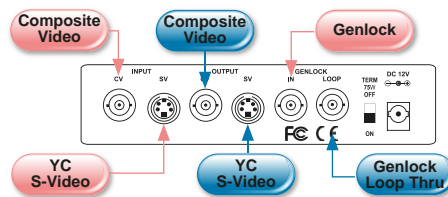
| | |
|----------------------|----------------|
| 1x Power Adapter | US, UK or Euro |
| 1x Operations Manual | |

Product Item Numbers

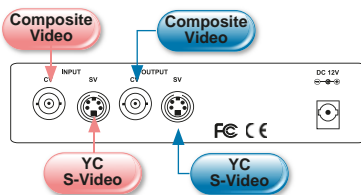
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|-----------|---------------------|
| 1T-TBC | Time Base Corrector |
| 1T-TBC-GL | TBC with Genlock |



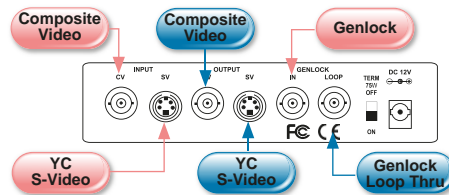
1T-PAL-NTSC-GL



1T-TBC



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