

Pal to NTSC / NTSC to Pal Converter ID#2



Operation Manual

Introduction

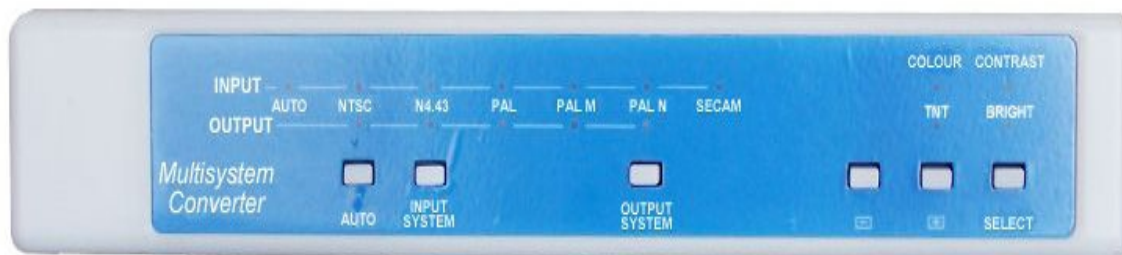
A multisystem digital converter which will convert any video signal from any worldwide tv standard to any NTSC or Pal standard required. Perfect for viewing your Imported DVDs or games on your TV.

The unit contains many advanced features including Y/C input & Time Base Correct with Genlock for a quality picture capable of synchronizing multiple asynchronous video sources.

Features

- Y/C input and output provides best conversion picture.
- Converts any video system to any other video system.
- Enables input video system auto detection.
- Digital conversion of TV signals.
- 8-bit broadcast quality color decoding.
- Digital comb filter for input system decoding.
- Built-in Time Base Correction (T.B.C.) function for signal synchronization.
- Built-in Automatic Gain Control (A.G.C.) function ensures 1 Vp-p output signal (Input level can range from 0.5Vp-p to 2Vp-p).
- Full digital decoding and encoding; highly integrated digital processing reduces the board size and ensures reliable quality.
- A colour-bar pattern will automatically appear on the TV screen when there is no video signal present on the input.
- TBC is active constantly, even in the bypass mode.
- Adjustable control on Contrast, Brightness, Color, Tint.

Operating Controls Front Panel



- Input video system indicator- AUTO, N3, N4, PAL, PAL M, PAL N and SECAM:

1. Illuminates when input auto detection mode is selected.
2. Illuminates when input system is set to NTSC 3.58.
3. Illuminates when input system is set to NTSC 4.43.
4. Illuminates when input system is set to PAL (BDGIK).
5. Illuminates when input system is set to PAL M.
6. Illuminates when input system is set to PAL N.
7. Illuminates when input system is set to SECAM.

**Note- When in auto detection mode one of the system indicators will also illuminate to show video system of the input.*

- Output video system indicator- Red LED illuminates when VIDEO mode is selected- N3, N4, PAL, PAL M or PAL N:

1. Illuminates when output system is set to NTSC 3.58.
2. Illuminates when output system is set to NTSC 4.43.
3. Illuminates when output system is set to PAL (BDGIK).
4. Illuminates when output system is set to PAL M.
5. Illuminates when output system is set to PAL N.
6. Illuminates when input system is set to SECAM.

Input Auto Detection Button:

Push the button to auto mode, in which the LED lights and the machine will automatically detect the system of the input. Push the button again to manual mode, in which the LED turns off, and the user has to manually select the input system through the input button select.

Input System Select Button:

Each depression of the button steps through a series of video system and auto detection mode. The sequence of selection is: NTSC 3.58- NTSC 4.43- PAL (BDGIK)- PAL MPAL N- SECAM.

Output System Select Button: In Video Mode:

Each depression of the button steps through a series of video systems and auto detection mode. The sequence of selection is: NTSC 3.58- NTSC 4.43- PAL (BDGIK)- PAL MPAL N.

Picture Adjustment Indicators:

1. **Contrast Indicator-** When it lights up, use the + and – buttons to adjust the picture contrast.
2. **Brightness Indicator-** When it lights up, use the + and – buttons to adjust the picture brightness.
3. **Colour Indicator-** When it lights up, use the + and – buttons to adjust the picture colour.
4. **Tint Indicator-** When it lights up, use the + and – buttons to adjust the picture tint.
5. **Horizontal Indicator-** When it lights up, use the + and – buttons to adjust the picture horizontally.
6. **Vertical Indicator-** When it lights up, use the + and – buttons to adjust the picture vertically.

*** 5,6 functions are only available under VGA mode.**

Picture Adjustment Controls:

1. **Select-** Press this button repeatedly to choose what picture adjustment you wish to do. Each depression of the button will lead to a change on the controls as follows-
Contrast- Brightness- Colour- Tint.
2. **+ Button-** Press the button for adding picture effect value.
3. **– Button-** Press the button for reducing picture effect value.
4. **+ And – Button-** Press + and – simultaneously, the setting of the selected control will be reset to its default value. Press + and – simultaneously for over 3 seconds, all controls will be reset to their default values.

Rear Panel



1. **Video Input-** This is the video input port. Use the input selector on the front panel to select the desired input. S-Video has the priority over Composite video when both are connected. If S-Video is not connected, the composite video will take effect.
2. **Video Output-** This is the video output port. You may choose either Composite Video or S-Video as your output. Connect the video output to your output device using a connector cable.
3. **DC 15V-** This is the AC adaptor port.
4. **Power- ON/OFF-** This is the button to turn ON or OFF the unit.

Connection and Installation

The AC adaptor power unit should not be plugged into a wall outlet until all connections are complete.

- Using your connector cable connect the output port (Number 2 on the rear panel) to the output device (Video, TV).

- Using your connector cable connect the input port (Number 1 on the rear panel) to the input device (video, satellite receiver, camcorder).

- In order to switch the unit ON/OFF press the ON/OFF button (Number 4 on the rear panel).

- Adjust the picture contrast, brightness, colour and tint to the desired level using the + and – buttons on the front panel.

Once all connections are complete please connect the power supply provided to the power socket.

Specifications

Input Systems	NTSC 3.58/4.43, PAL/M/N, SECAM
Output Systems	NTSC 3.58/4.43, PAL/M/N.
Connection Terminals	Video Input: 1, S-Video input: 1 Video Output: 1, S-Video output: 1
Sampling Frequency	Y: 13.5 MHz, R-Y: 6.75 MHz, B-R: 6.75MHz
Digital Cord Bit	Y: 8 bits, R-Y: 8 bits, B-Y: 8 bits
Line Conversion	525-625 Lines
Field Conversion	60-50 Fields
Power Supply	DC 15V 600mA Center negative
Dimensions	300 (W) X 242 (D) X 55 (H) mm
Weight	2.0 Kg
Accessory	One RCA