

# **PAL to NTSC (NTSC to PAL) Digital Multisystem converter (CDM-660)**



## **Operation Manual**

## **Introduction**

This unit can convert video signals from NTSC, PAL, or SECAM to NTSC or PAL. This Multisystem converter is suitable for home applications.

## **Precautions**

1. Do not expose this product to direct sunlight.
2. Keep the unit away from radiator, heat sources and magnetic field.
3. Do not place it in very dusty or humid locations.
4. Use this unit in a horizontal position only.
5. Do not put heavy objects on top of the converter.
6. Put the unit in an open space that has good ventilation.
7. If the unit is acting abnormally keep the unit away from TV or other electronic equipment.
8. Unplug the unit from the power supply when it is not to be used for a long period of time.

## **Features**

- Includes a built in colour bar.
- Input auto detecting.
- Digital conversion from input TV signals of NTSC, N4, PAL, PAL M, PAL N or SECAM to output signals of NTSC or PAL.
- Full digital processing. Digital Line (525-625 lines) and field (60 input-50 field).
- 6M-bit field memory.

## Operation Controls and Functions

### Front Panel



#### 1. Input Select:

- S-In-** This will illuminate when S-In is selected.
- V-In-** This will illuminate when V-In is selected.

#### 2. Input System

- SECAM-** This will illuminate when the input system is SECAM.
- PAL-** This will illuminate when the input system is PAL.
- PAL M-** This will illuminate when the input system is PAL M.
- PAL N-** This will illuminate when the input system is PAL N.
- NTSC 4.43-** This will illuminate when the input system is NTSC 4.43.
- NTSC 3.58-** This will illuminate when the input system is NTSC 3.58.

#### 3. Output System

- PAL-** This will illuminate when the output system is PAL.
- NTSC-** This will illuminate when the output system is NTSC.

### Rear Panel



- 1. Output system select switch-** Set the switch to the type of signal you wish to output. You may either choose to output NTSC or PAL.
- 2. Video Output-** Connect your output device to the Video output port using a composite RCA connector cable.
- 3. S-Video Output-** Connect your output device to the S-Video output port using a 4 pin mini Din connector cable.
- 4. Input signals select switch-** Set the switch to select either Video-In or S-Video-In.
- 5. Video Input-** Connect your input device to the Video input port using a composite RCA connector cable.

6. **S-Video Input-** Connect your input device to the S-Video input port using a 4-pin mini Din connector cable.
7. **DC Power supply Input-** This is the power supply adaptor port. It is to be used with the power pack supplied.

### 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 (Number 2/3 on Rear panel) to your output device (NTSC or PAL Video Recorder). Output being either Video or S- Video

Using your connector cable connect your input (Number 5/6 on Rear panel) to the input device (Video cassette recorder either- PAL, NTSC or SECAM, satellite receiver or a camcorder). Input being either Video or S-Video.

Once all connections are complete please connect the power supply provided to the power socket (number 7 on rear panel).

### Specifications

<b>Input systems</b>	NTSC, N4, Pal, PAL M, PAL N, SECAM
<b>Output TV systems</b>	NTSC 3.58, PAL
<b>Connection terminals</b>	Video Input: 1    S Input: 1 Video Output: 1    S Output: 1
<b>Sampling frequency</b>	Y: 13.5 MHz R-Y: 6.75 MHz B-Y: 6.75 MHz
<b>Digital Code bit</b>	R: 8 bits G: 8 bits B: 8 bits
<b>Line</b>	525-625
<b>Field</b>	60-50
<b>Power</b>	DC 9V 500mA Center negative
<b>Dimensions</b>	236 (W) x 130 (D) x 45 (H) mm
<b>Weight</b>	400 g
<b>Accessory</b>	One set of video cables, AC adaptor