# NTSC to PAL (PAL to NTSC) Converter

# (CND-100P/PLUS)

# Operation Manual

**Introduction**

This unit allows for digital conversion from NTSC, PAL or SECAM to NTSC or PAL.
Users have the option of selecting manual or automatic signal detection.


**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**

- Allows for automatic input detection.
- Digital conversion from NTSC (M, N) PAL or SECAM input to NTSC or PAL output.
- 2M-bit field memory.
- Enables Time Base Correction for accurate signal synchronization.
- Built in Automatic Gain Control ensures 1 Vp-p video output.
- Grand looking and outstanding quality.

Please browse our online catalogue to view our full product range.
44-48 Maitland Road, Mayfield East, NSW, 2304 Australia, sales@converters.tv
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**Operations control and functions**

Front Panel



1. **AUTO Indicator-** This indicator will light up when in auto-detecting mode
2. **NTSC Indicator-** This indicator will light up when the input signal is NTSC 3.58 or 4.43.
3. **PAL indicator-** This indicator will light up when the input signal is PAL.
4. **SECAM indicator-** This indicator will light up when the input signal is SECAM.

Rear Panel



1. **Output system select switch-** Set the switch to either NTSC 3.58 or PAL output.
2. **Video output-** This is the video output port. Using a composite RCA connector cable, connect the video output port to your output device.
3. **Input system select switch-** When in M (Manual) mode, set the switch to match the actual input signal type (PAL, SECAM, N3, N4).
4. **Input signal detecting mode switch-** Auto represents automatic detecting mode. M represents Manual detecting mode.
5. **Video input-** This is the video input port. Using a composite RCA connector cable, connect the video input to your input device.
6. **Power-DC-15V-** This is the power supply input port. It is to be used with the power pack supplied. The power plug available for most countries.

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**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 (TV, Video).
- Using your connector cable connect the input port (Number 5 on the rear panel) to the input device (Video, satellite receiver, camcorder).
- Switch the input system detecting mode switch to either manual or auto. When in manual mode choose your input signal from PAL, SECAM, N3 or N4. The indicator for the signal selected will light up.

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

**Specifications**

| | |
|---|---|
| **Input TV System** | PAL, NTSC 3.58, NTSC 4.43, SECAM |
| **Output TV System** | NTSC 3.58, PAL |
| **Connection Terminal** | 1 Video Input and 1 Video Output |
| **Sampling Frequency** | Y = 14.318MHz, T-Y = 7.159MHz, B-Y = 7.159MHz |
| **Digital Cord Bit** | Y = 8bits, R-Y = 8bits, B-Y = 8bit |
| **Line Conversion** | 625 to 525/ 525 to 625 |
| **Field Conversion** | 50 to 60 fields/ 60 to 50 fields |
| **Power** | DC 15V 600mA Center negative |

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