

# NP-NT2HD

*Component/CVBS & Audio to HDMI  
Scaler Converter*

## User Manual



Full HD  
1080

WUXGA  
1920  
x  
1200



rev: 200618  
Made in Taiwan



## Safety and Notice

The NP-NT2HD **Component/CVBS & Audio to HDMI Scaler Converter** has been tested for conformance to safety regulations and requirements, and has been certified for international use. However, like all electronic equipment, the **NP-NT2HD** should be used with care. Please read and follow the safety instructions to protect yourself from possible injury and to minimize the risk of damage to the unit.

- Follow all instructions and warnings marked on this unit.
- Do not attempt to service this unit yourself, except where explained in this manual.
- Provide proper ventilation and air circulation and do not use near water.
- Keep objects that might damage the device and assure that the placement of this unit is on a stable surface.
- Use only the power adapter and power cords and connection cables designed for this unit.
- Do not use liquid or aerosol cleaners to clean this unit. Always unplug the power to the device before cleaning.



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# INTRODUCTION

The **NP-NT2HD Component/CVBS & Audio to HDMI Scaler Converter** provides a cost effective way to convert Component or CVBS signal to HDMI compliant format. NP-NT2HD supports the S/PDIF audio thru RCA into HDMI output. With this extra feature, users can combine asynchronous video and audio sources into the state-of-art HDMI compliant A/V signal for having high standard A/V experiences!

## FEATURES

- IR remote control
- OSD control interface
- Maximum pixel rate : 165MHz
- 480i,480p, 720p, 1080i, 1080p and many other HDTV formats are supported
- S/PDIF input supported
- Deinterlacer supported
- Supports noise reduction and video enhancement features
- Over / Under scanning adjustable
- Video H/V mirror supported
- Active video area adjustment supported
- Wall-mount housing design for easy installation
- Key lock function

## PACKAGE CONTENTS

- 1x NP-NT2HD
- 1x 5V/4A power supply unit
- 1x IR Remote control
- 1x User Manual

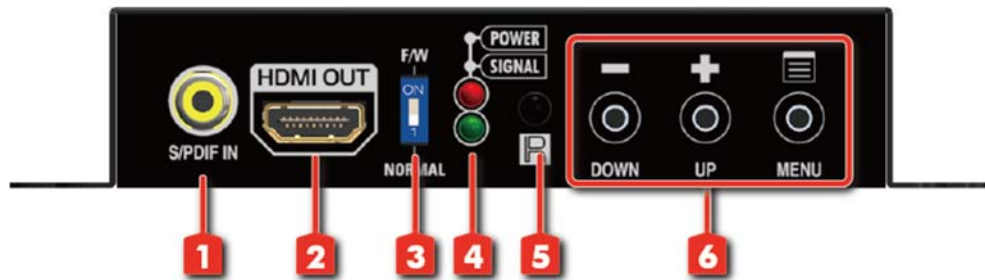
# SPECIFICATIONS

| Item   |                   |                  |   | Description   |
|--------|-------------------|------------------|---|---|
| Input  | Video             | Universal Analog | Number / Signal   | 1 input / Composite video/ Analog YPbPr (auto-recognition)<br>- Composite video (VBS Signal): 1.0 V[p-p]/75 Ω<br>- Analog YPbPr: 1.0 V [p-p] (Y) / 0.7 V [p-p] (Pb/Pr) / 75 Ω |
|        |                   |                  | Connect or  | RCA pin jack  |
|        |                   | Format           | Composite video: NTSC / PAL<br>Analog YPbPr: 460i @60Hz / 460p @60Hz / 576i @50Hz / 576p @50Hz / 720p @50Hz / 720p @59.94Hz / 1080i @50Hz / 1080i @59.94Hz / 1080p @24Hz / 1080p @30Hz  |   |
|        | Audio             | Digital          | Number / Signal   | 1 input / S/PDIF  |
|        |                   | Analog           | Number / Signal   | 1 input / Stereo LR unbalanced signal   |
|        |                   |                  | Connect or  | 1 RCA pin jack  |
| Output | Video             | HDMI / DVI       | Number / Signal   | 1 output / HDMI   |
|        |                   |                  | Connect or  | 1 female HDMI Type A (19-pin)   |
|        |                   | Format           | VGA / SVGA / XGA / SXGA / WXGA (1360x768) / WXGA (1366x768) / SXGA+ / WXGA+ / UXGA / WSXGA+ / 1920 x 1080* / WUXGA* / 480i / 480p / 576i / 576p / 720p / 1080i / 1080p<br>* 1920 x 1080 / WUXGA are only output as Reduced Blanking |   |
|        | Audio             | Digital          | Number / Signal   | 1 output  |
|        |                   |                  | Connect or  | 1 female HDMI Type A (19-pin),  |
|        | Scan Converter    |                  |   | Picture adjustment (brightness, contrast), Test pattern   |
|        | Others            |                  |   | H-Mirror, V-Mirror, H-Shift, V-Shift  |
| Others | Power             |                  |   | DC 5V 4A  |
|        | Power consumption |                  |   | About 5 Watts   |
|        | Dimensions        |                  |   | 92 (W) × 30(H) × 83 (D) mm<br>(Excluding connectors and the like)   |
|        | Weight            |                  |   | 0.27 kg   |
|        | Temperature       |                  |   | Operating: 0 °C to +40 °C<br>Storage: -20 °C to +60 °C  |

\*CEC, ARC and HEC in HDMI are not supported.

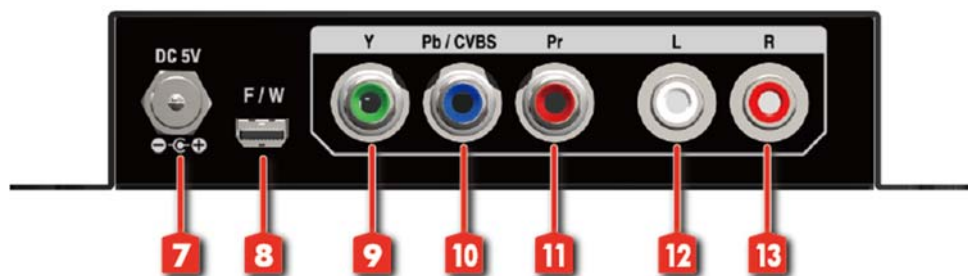
# PANEL DESCRIPTION

## Front Panel



- 1. S/PDIF AUDIO IN:** connect to digital S/PDIF audio source
- 2. HDMI OUT:** Connect to a HDMI display with a HDMI male-male cable here.
- 3. DIP SWITCH:** For firmware update  
ON [↑]: firmware update mode  
OFF [↓]: normal mode
- 4. LED INDICATOR:**  
[green]: signal indicator LED  
[red]: power indicator LED.
- 5. IR SENSOR:** IR sensor for receiving the IR commands from IR remote
- 6. PUSH BUTTON for operation of OSD Menu**  
[LEFT]: Down Button. For key lock, please keep pushing the button for 3 seconds.  
When keylock is enabled, "OSD locked" is displayed on top left side of the monitor.  
For release of key lock, please keep pushing for 3 seconds.  
"OSD unlocked" indication will appear on top left side of the monitor.  
[MID]: Up Botton  
[RIGHT]: Menu/Enter Button. For displaying OSD or fix the setting.

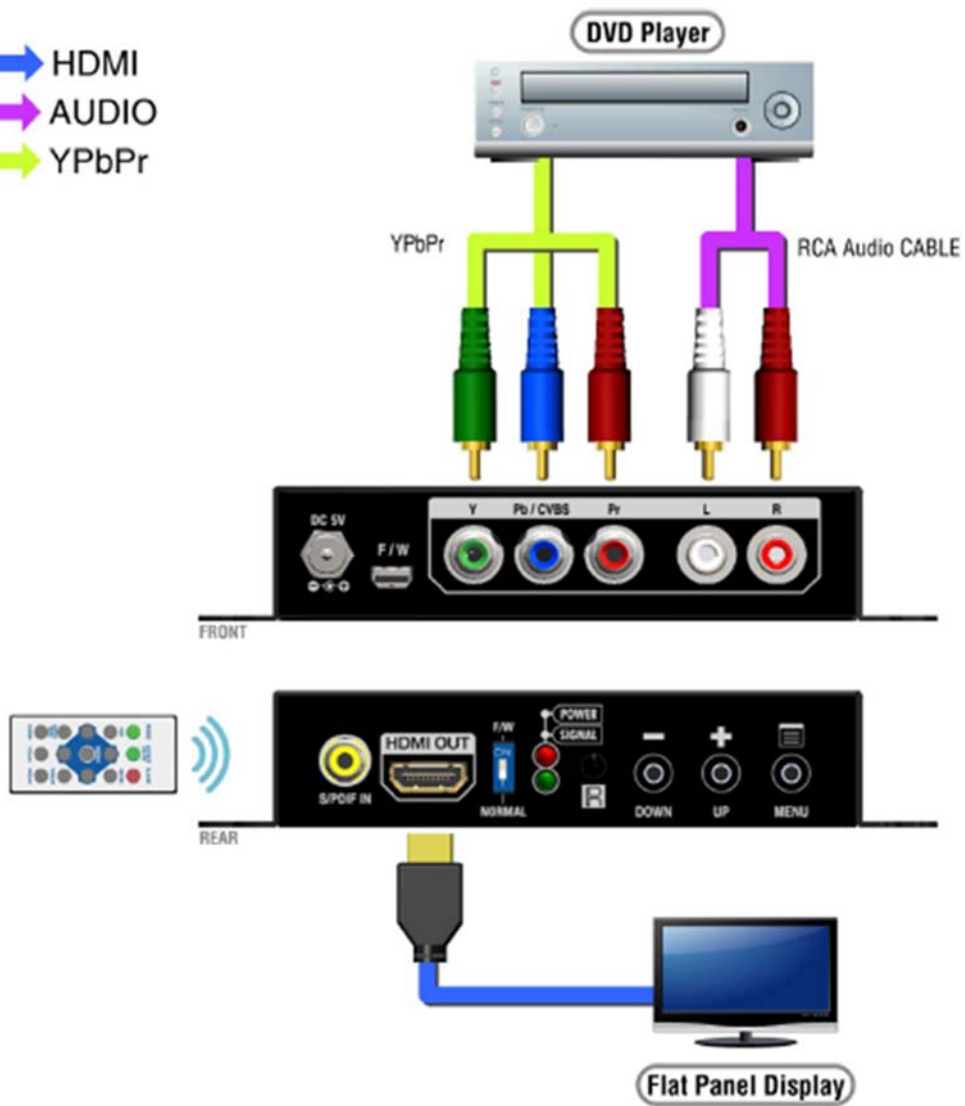
## Rear Panel



- 7. +5V DC:** Interlocking power jack for 5V DC power supply unit
- 8. Mini USB:** F/W update & control port
- 9. COMPONENT – Y INPUT**
- 10. COMPONENT – Pb INPUT / CVBS INPUT**
- 11. COMPONENT – Pr INPUT**
- 12. AUDIO IN – L**
- 13. AUDIO IN – R**

# CONNECTION DIAGRAM

- HDMI
- AUDIO
- YPbPr



# OSD MENU

|                       |                 |   |
|-----------------------|-----------------|---|
| <b>1.Output Setup</b> | Output Resolu.  | Setting output resolutions (*1)<br>Auto-Detect: Automatically settle the available resolution which sink device can display.<br>Bypass: Output the same resolution as input resolution.<br>* Factory setting is set to 720P @ 60Hz  |
|                       | Output Mode     | <b>RGB, YCbCr444, YCbCr422</b>  |
|                       | Default Pattern | Disable, White, Cross, Hatch, Color, Gray, Windows, H-Ramp, W-HRamp, W-VRamp, Diagonal  |
|                       | Audio Source    | Stereo, SPDIF   |
| <b>2.Image</b>        | Contrast        | 0~255 of Contrast Level   |
|                       | Brightness      | 0~255 of Brightness Level   |
|                       | Saturation      | 0~255 of Saturation Level   |
|                       | Hue             | 0~255 of Hue Level  |
|                       | B/W Extension   | Off, On   |
|                       | Color Tone      | Off, Skin, Green  |
|                       | Edge Enhance    | Typ, Mid, Max, Off  |
|                       | Sharpness       | 0~127 of Sharpness Level  |
| <b>3.Adjustment</b>   | Under/Over Scan | -50%~50% of Scan Level  |
|                       | Aspect Ratio    | Adjust aspect ration of output image.<br>[16:9] Insert black frame to top/bottom<br>[4:3] Insert black frame to left/right<br>[Auto] Automatically settle aspect ratio according to input resolution. (* 2)<br>[Stretch] Enlarge input resolution according to output resolution. (* 3) |
|                       | H-Mirror        | Off, On   |

|                  |                  |                           |
|------------------|------------------|---------------------------|
|                  | V-Mirror         | Off, On                   |
|                  | H-Shift          | -100~100 of H-Shift Level |
|                  | V-Shift          | -50~50 of V-Shift Level   |
| <b>4. System</b> | Input Res. Info  |                           |
|                  | Firmware Version |                           |
|                  | Factory Reset    |                           |

(\*1) Available output resolution can be referred to Specifications.

(\*2) Unexpected output aspect ratio may be output depends on the sink device combination. In this case, please settle aspect ration by manual.

(\*3) When Output resolution setting is Bypass, please settle aspect ratio setting to Stretch.

# OPERATION APPROACH

## Method A: Push-in Button



## Method B: IR Remote Control

| Button              | Function                         |
|---------------------|----------------------------------|
| <b>FREEZE</b>       | Freeze video                     |
| <b>ASPECT RATIO</b> | Aspect ratio change              |
| <b>BLANK</b>        | Blank video                      |
| <b>EXIT</b>         | Exit OSD                         |
| <b>ENTER</b>        | Enter key                        |
| <b>UP</b>           | Up key                           |
| <b>LEFT</b>         | Left key                         |
| <b>RIGHT</b>        | Right key                        |
| <b>DOWN</b>         | Down key                         |
| <b>MENU</b>         | Menu on                          |
| <b>INPUT INFO</b>   | Source resolution information    |
| <b>1080p60</b>      | Select 1080p60 output resolution |
| <b>1080i60</b>      | Select 1080i60 output resolution |
| <b>720p60</b>       | Select 720p60 output resolution  |
| <b>480p60</b>       | Select 480p60 output resolution  |

