AV/YPbPr/DVI/VGA/HDMI to HDMI Converter / Switch All in one box

User Manual

USB	HDMI	DVI-D	VGA	AUDIO	VIDEO	YPbPr	COAXIAL
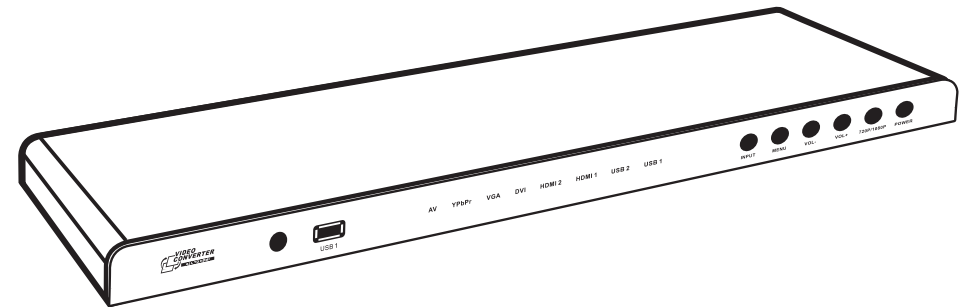
Safety Notes:

1). In order to avoid fire, electricity shock or product damage, please keep the product away from rain, damp, any other liquid, and pressure.

2). Keep ventilation. Don't put the product in any enclosed cabinet during it is working, otherwise product damage or fire may be caused by high temperature.

3). Don't touch the power adapter with wet hands.

4). Turn off the power before plug in/output equipment

5). Working power is 12V/1A. Please check the power adapter parameters before you change it.

6). Please keep the user manual for future reference.

1. Box Content

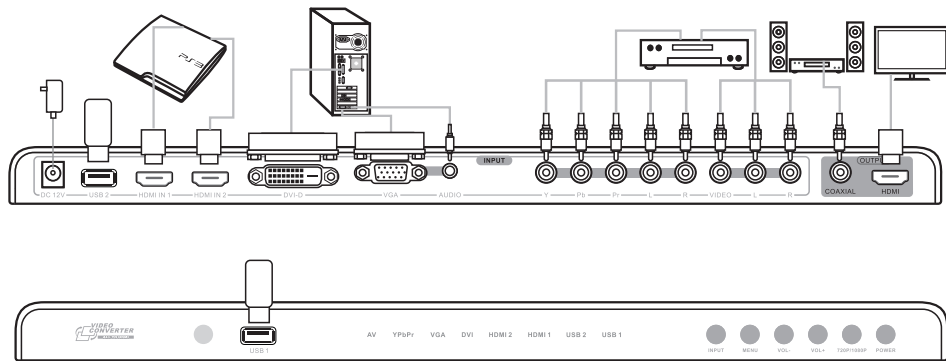Converter box   User manual   Remote control   DC12V 1A power adapter

2. Installation equipment

2.1. Video source with AV, YPbPr, VGA, DVI-D, or HDMI output
2.2. USB flash disk, hard disk, or media player with media files (optional)
2.3. HDMI display , projector

3. Installation steps

3.1. Connect AV, YPbPr, DVI-D, VGA or HDMI signal of the source to the converter box .

Disclaimer

The product name and brand name may be registered trademark of related manufacturers.TM and ® may be omitted on the user manual. The pictures on the user manual are just for reference,and there may be some slight difference with the real products.

We reserve the rights to make changes without further notice to a product or system described herein to improve reliability, function or design.

VGA input	Supports adjust phase position,underscan, overscan,automatically. Rusolutions supported: 640x480(60Hz,72Hz,75Hz), 800x600(60Hz,72Hz,75Hz), 1024x768(60Hz,70Hz,75Hz), 1280x768(60Hz),1280x960(60Hz), 1280x1024(60Hz),1400x1050(60Hz), 1440x1050(60Hz),1440x900(60Hz), 1360x768(60Hz)1920x1080(60Hz);
DDC signal	5Vp-p(TTL)
TMDS signal	0.5-1.0Vp-p
HDMI output signal	720p@50Hz/720p@60Hz/1080p@50Hz/1080p@60Hz
Coaxial Audio output	PCM /Auto/Off
power comsuption	< 6W
Dimension	400x 128x 31 mm (LxWxH)

3.2. Plug in USB storage device or media player to USB1/USB2 ports of the converter.
3.3. Connect the converter to the HDMI display by HDMI cable, then connect power of the converter, and switch the TV to the corresponding channel.
4.4. The converter is with SPDIF audio output, and connection to digital home theater is optional.

4. Operation

4.1 Functions of main buttons:

INPUT   MENU   VOL-   VOL+   720P/1080P   POWER
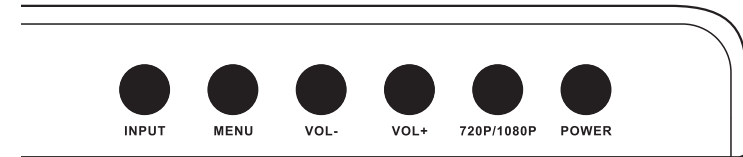
4.1.1. POWER: Stand by, Turn on/off
4.1.2. 720p /1080p: Loop switch output resolution at 720p@50Hz, 1080p@50Hz, 720p@60Hz and 1080p@60Hz
4.1.3. VOL+: increase volume
4.1.4. VOL-: decrease volume
4.1.5. MENU: enter main menu
4.1.6. INPUT: Input source menu

4.2 Remote control functions:

⏻: Press to standby/wake up

🔇: Mute button

HDMI: Press to switch HDMI1/HDMI2 input

AV: AV input

VGA: VGA input

MHL: (This feature is temporarily not open)

DVI: DVI input

YPbPr: YPbPr input

TV: (This feature is temporarily not open)

USB: Press to switch USB1/USB2 multimedia player

720P/1080P: Press to switch 720P/1080P

INPUT: Input source chosen button

MENU: Press to enter menu

EXIT: Press to exit

OK: Button for comfirmation

◢◣◢◣: Arrow buttons/Volume+−

0～9: Numeric buttons

RATIO: Press to adjust output ratio
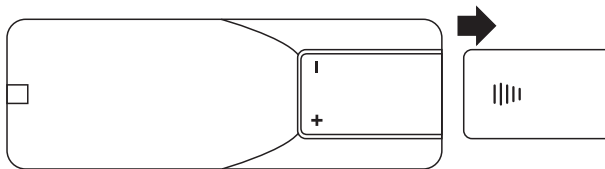
FREEZE: Press to freeze screen

NOTE: The appearance is for reference only.

4.3 Remote control battery installation
4.3.1. Push the cover as per the arrow shows.
4.3.2. Install two AAA batteries. Make sure the positive/negative
　　　 pole match the instruction icon inside the cover.
4.3.3. Put back the cover.

4.4 Connection of input/output ports:
4.4.1. Connection of Composite Video and Audio L/R
　　　 Connect the Composite Video (yellow RCA) and Audio L/R (white
　　　 RCA and red RCA) of the video source (such as VCD, DVD, STB,
　　　 recorder, DV, camera, etc.) to the corresponding ports of the
　　　 converter.

4.4.2. Connection of Component Video and audio
　　　 Connect the Component Video (Y Pb Pr) and Audio L/R (white RCA
　　　 and red RCA) to of the video source to the corresponding ports of
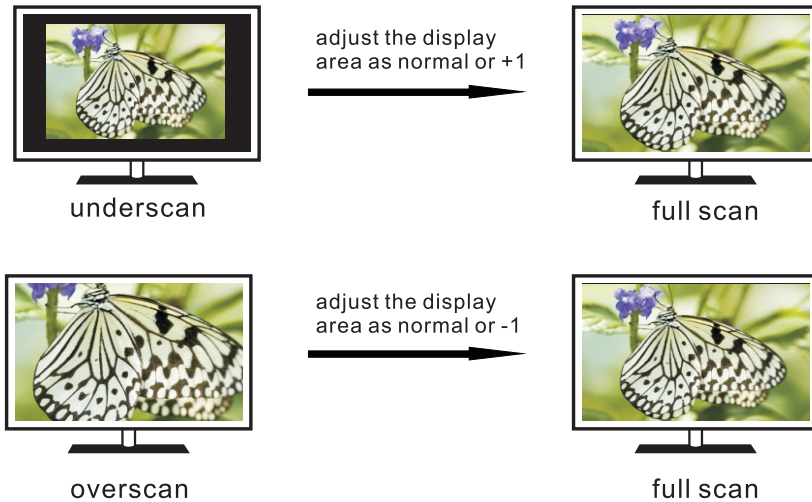　　　 the converter.

4.4.3. Connection of HDMI port
　　　 Connect HDMI source (such as DVD, STB, PS3, DV, etc.) to HDMI
　　　 input of the converter

6. Specifications

	Specifications
Power	DC12V/1A
HDMI input	Supports 1080p@60Hz 36bit deep color Input resolutions supported: 480i@60Hz,480p@60Hz,576i@50Hz, 576p@50Hz,720p@50/60Hz, 1080i@50/60Hz,1080p@50/60Hz; HDMI graphic resolutions supported: 640x480(60Hz),800x600(60Hz), 1024x768(60Hz),1152x864(60Hz), 1280x600(60Hz),1280x720(60Hz), 1280x768(60Hz),1280x800(60Hz), 1280x960(60Hz),1280x1024(60Hz), 1360x768(60Hz),1366x768(60Hz), 1400x1050(60Hz),1440x900(60Hz), 1600x900(60Hz),1680x1050(60Hz), 1920x1080(60Hz)
DVI-D input	640x480(60Hz),800x600(60Hz), 1024x768(60Hz),1152x864(60Hz), 1280x600(60Hz),1280x720(60Hz), 1280x768(60Hz),1280x800(60Hz), 1280x960(60Hz),1280x1024(60Hz), 1360x768(60Hz),1366x768(60Hz), 1400x1050(60Hz),1600x900(60Hz), 1920x1080(60Hz)
AV input	Supports NTSC/ PAL and detect automatically ;
YPbPr input	Detects signal automatically 480i@60Hz,480p@60Hz,576i@50Hz, 576p@50Hz,720p@50/60Hz, 1080i@50/60Hz,1080p@50/60Hz;

Display area: adjust the display area of VGA, HDMI, DVI input. There are -1/normal/+1 options.
If there is still black edge or over display(underscan or overscan), adjust display width and height a little. (Available for VGA, HDMI and DVI input)

underscan → adjust the display area as normal or +1 → full scan

overscan → adjust the display area as normal or -1 → full scan

5. FAQ

Q1. No output display
A1. 1) Check if all cables connected well, if LED lights, if the TV is switched to the right channel.
2) Check if TV resolution is compatible with the output resolution of the converter.

Q2. Abnormal output picture
A2. 1) If HDMI input is HDMI graphic card, check if the resolution is compatible with the converter.
2) If input is VGA signal ,please check the input VGA Resolution is supported by the converter.

HDMI resolution supported:
RGB/60Hz: 640x480, 800x600, 1024x768, 1152x864, 1280x600, 1280x720, 1280x768, 1280x800, 1280x960,1280x1024, 1360x768, 1366x768, 1400x1050, 1440x900, 1600x900, 1680x1050, 1920x1080.
YUV/50Hz: 576i, 576p, 720p, 1080i, 1080p.
YUV/60Hz: 480i, 480p, 720p, 1080i, 1080p.

4.4.4. Connection of DVI-D
Connect PC with DVI-D graphic card to the DVI-D input of the converter, and connect 3.5mm audio (the one 3.5mm audio input port of the converter can either be used by DVI-D input or VGA input).
DVI-D resolution supported:
RGB/60Hz: 640x480, 800x600, 1024x768, 1152x864, 1280x600, 1280x720, 1280x768, 1280x800, 1280x960,1280x1024, 1360x768, 1366x768, 1400x1050, 1600x900, 1920x1080.
YUV/50Hz: 576i, 576p, 720p, 1080i, 1080p.
YUV/60Hz: 480i, 480p, 720p, 1080i, 1080p.

4.4.5. Connection of VGA
Connect the VGA and 3.5mm audio ports of the PC to the converter VGA input and 3.5mm audio input (the one 3.5mm audio input port of the converter can either be used by DVI input or VGA input) .
VGA resolution supported:
640x480(60Hz, 72Hz, 75Hz),800x600(60Hz, 72Hz, 75Hz), 1024x768(60Hz, 70Hz,75Hz),1280x768(60Hz),1280x960(60Hz), 1280x1024(60Hz), 1400x1050(60Hz), 1440x1050(60Hz), 1440x900(60Hz), 1360x768(60Hz), 1920x1080(60Hz).

4.4.6. Connection of USB device
The converter is with standard USB port, and is able to connect USB 1.1 and USB2.0 devices such as USB storage device and media player.

4.4.7. Connection of HDMI display
Connect the HDMI output to HDMI display such as HDTV, HDMI monitor, or projector.
NOTE: Please switch the TV to the corresponding HDMI signal.

4.4.8. Connect SPDIF output the home theater

The audio output is either integrated into HDMI output or output independently to the SPDIF output, and can be connected to digital home theater.

4.5 Input source settings:

Buttons on converter box

enter input source menu	select input source	Confirm	Exit
⬤ INPUT	⬤ INPUT	⬤ MENU	⬤ 720P/1080P

Buttons on remote control

| enter input source menu	select input source	Confirm	Exit
⬤	◀ OK ▶	OK	⊗

4.5.1. Press ⬤INPUT on the converter box or ▲ ▼ on the remote control to select input source.

4.5.2. Press ⬤MENU on the converter box or OK on the remote control to confirm the input source.

4.5.3. Press ⬤720P/1080P on the converter box or ⊗ on the remote control to exit the menu.

Input Source		
AV	AV	select AV input source
YPbPr	YPbPr	select YPbPr input source
HDMI 1	HDMI1	select HDMI1 input source
HDMI 2	HDMI2	select HDMI2 input source
DVI	DVI	select DVI input source
VGA	VGA	select VGA input source
USB 1	USB 1	select USB 1 input source
USB 2	USB 2	select USB 2 input source

4.7.7.4. Press ⬤720P/1080P on the converter box or ⊗ on the remote control to exit the menu.
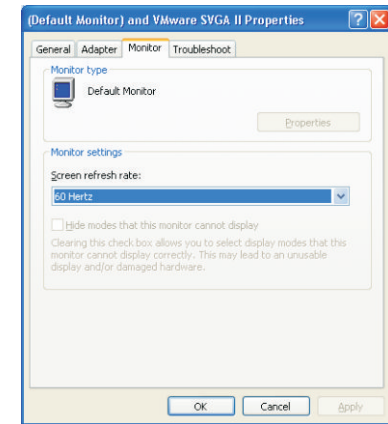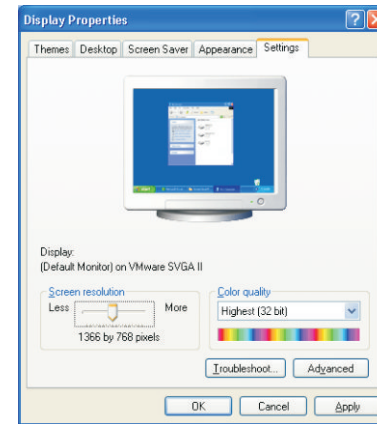
4.7.7.5 Take Windows XP as an example, and the windows system settings is as the pictures shown:

4.7.7.5.1. Right click the mouse on desktop of computer then left click 'Properties'

4.7.7.5.2. Left click 'settings' to adjust the resolution (please refer to the VGA resolution this converter box supported)

4.7.7.5.3. Left click 'advanced', then left click 'monitor', and set the frequency rate at '60HZ'

4.7.7.5.4. Left click 'OK'

Auto: adjust the picture position and ratio automatically (available for VGA input only)

Horizontally move: adjust the horizontal position of the picture (available for VGA input only)

Vertically move: adjust the vertical position of the picture (available for VGA input only)

Time base: adjust the line amplitude of VGA input (available for VGA input only)

Phase position: adjust the phase position of VGA input (available for VGA input only)

Display width: adjust the width of screen display (available for VGA, HDMI and DVI input)

Display height: adjust the height of screen display (available for VGA, HDMI and DVI input)
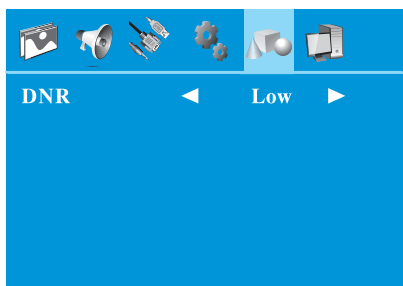
4:3   16:9   16:10

Language: Chinese/English(default:English)
MENU transparent: Off/Low/Middle/High (Default: Off). Adjust the transparency of the menu.
OSD Duration: Off/5 sec / 10 sec/15 sec seconds (default: 10 sec). Menu will display in appointed time.
Default setting: All settings go back to default setting.
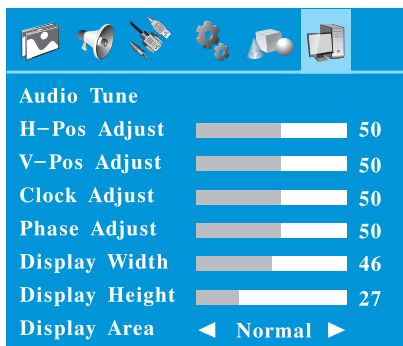
4.7.6 Denoise settings

DNR   ◄   Low   ►

4.7.6.1. Press ● (MENU) on the converter box or ▲▼ on the remote control to select the options of the denoise settings.

4.7.6.2. Press ● ● (VOL- VOL+) on the converter box or ◄ ► on the remote control to adjust the parameters.

4.7.6.3. Press ● (720P/1080P) on the converter box or ⊗ on the remote control to exit the menu.

Denoise: Off/Low/Middle/High (default: Low). Optimize the quality of the picture; decrease the interference of outer environment.

4.7.7 PC settings

Audio Tune
H−Pos Adjust   50
V−Pos Adjust   50
Clock Adjust   50
Phase Adjust   50
Display Width   46
Display Height   27
Display Area   ◄ Normal ►

4.7.7.1. Press ● (MENU) on the converter box or ▲▼ on the remote control to select the ptions of PC settings.

4.7.7.2. Press ● ● (VOL- VOL+) on the converter box or ◄ ► on the remote control to adjust the parameters.

4.7.7.3. Select AUTO item and press ● (INPUT) on the converter box, or ⊙ (OK) on the remote control to adjust the screen automatically.

4.6 Menu settings:

Buttons on converter box

enter input source menu	select input source			Confirm	Exit
● MENU	● VOL-	● VOL+	● MENU	● INPUT	● 720P/1080P

Buttons on remote control

enter input source menu	select input source	Confirm	Exit
▤	OK	OK	⊗

4.7 Menu option:

4.7.1 Menu option selection

Picture Mode   ◄ Standard ►
Brightness   50
contrast   50
Satuation   50
Hue   50
Sharpness   50

4.7.1.1. Press ● (720P/1080P) on the converter box or ⊗ on the remote control to exit the menu.

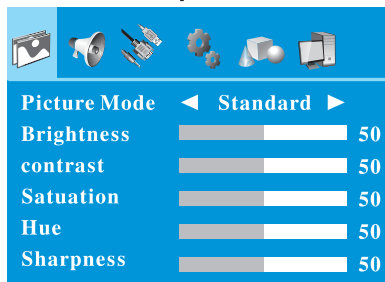4.7.1.2. Press ● ● (VOL- VOL+) on the converter box or ◄ ► on the remote control to select the option to adjust.

4.7.2.1. Press ● (MENU) on the converter box or ▲▼ on the remote control to enter into different parameters setting of the picture.
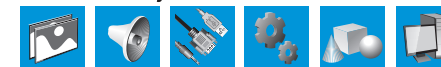
4.7.2 Picture mode settings

Picture Mode   ◄ Standard ►
Brightness   50
contrast   50
Satuation   50
Hue   50
Sharpness   50

4.7.2.2. Press ● ● (VOL- VOL+) on the converter box or ◄ ► on the remote control to adjust the value of the parameter.

4.7.2.3. Press ● (720P/1080P) on the converter box or ⊗ on the remote control to exit the menu.

The following parameters are adjustable under picture mode : Standard/ Mild/User/Vivid (default:Standard)
Brightness: 0~100
Contrast: 0~100
Saturation: 0~100 adjust density of color. It is unavailable for VGA input
Color: 0~100 adjust green and red color hue. It is available for NTSC only
Sharpness: 0~100 It is unavailable for VGA input

4.7.3 Sound mode settings


```
Sound  Mode    ◄   Standard   ►
Volume         [========      ]  50
Mute             ☐
Coaxial  Mode  ◄       PCM      ►
```
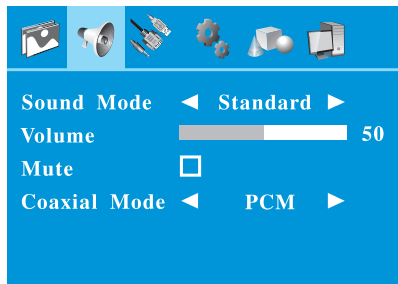
4.7.3.1. Press ● MENU on the converter box or ▲▼ on the remote control to enter into sound parameters setting.

4.7.3.2. Press ● VOL- ● VOL- on the converter box or ◄ ► on the remote control to adjust the value of the parameter.

4.7.3.3. Press ● 720P/1080P on the converter box or ⊗ on the remote control to exit the menu.

4.7.3.4. Select MUTE and press ● INPUT on the converter box or press OK on remote control to turn on/off mute function.

Sound mode: Standard/Concert/Movie (default:Standard), set sound effect.
Volume: 0~100
MUTE: ON/OFF, when mute is on, mute icon displays for 5 seconds, and after that, It's in Mute mode,but mute icon disappears. Press it again to turn audio on.
Coaxial mode: PCM / AUTO / OFF

4.7.4 Channel settings


```
☐  HDMI  1         ☐  AV
☐  HDMI  2         ☐  VGA
☑  DVI             ☐  USB  1
☐  YPbPr           ☐  USB  2
```

4.7.4.1. Press ● MENU ● VOL- ● VOL+ on the converter box or ▲ ▼ ◄ ► on the remote control to select one of the input source.

4.7.4.2. Press ● INPUT on the converter box or OK on he remote control to confirm the selection.

4.7.4.3. Press ● 720P/1080P on the converter box or ⊗ on the remote control to exit the menu.

AV	select AV input source
YPbPr	select YPbPr input source
HDMI1	select HDMI1 input source
HDMI2	select HDMI2 input source
DVI	select DVI input source
VGA	select VGA input source
USB 1	select USB 1 input source
USB 2	select USB 2 input source

4.7.5 Settings


```
Resolution       ◄   1080p@60hz  ►
Ratio            ◄      16 : 10     ►
Language         ◄      English     ►
Menu  Alpha      ◄        Off        ►
Meun  Duration   ◄        Off        ►
Reset
```

4.7.5.1. Press ● MENU on the converter box ▲▼ or on the remote control to select the options.

4.7.5.2. Press ● VOL- ● VOL- on the converter box or ◄ ► on the remote control to adjust the value of the parameters.

4.7.5.3. Press ● INPUT on the converter box or OK on the remote control for default setting.

4.7.5.4. press ● 720P/1080P on the converter box or ⊗ on remote control to exit the menu.

Output display mode: 720p@50Hz,720p@60Hz ,1080p@50Hz, 1080p@60Hz (default: 1080p@60Hz)
Display ratio: 4:3 16:9 16:10 Auto(default: 16:9)
AV: 4:3 16:9 16:10 Auto
YPBPR: 4:3 16:9 16:10 Auto
HDMI: 4:3 16:9 16:10 Auto
DVI-D: 4:3 16:9 16:10 Auto
VGA: 4:3 16:9

When you select AUTO mode, the converter box will detect the input picture format and output at a kind of ratio automatically .