CP-291 PC/HD to PC/HD Scaler Box

Operation Manual

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1.Introduction

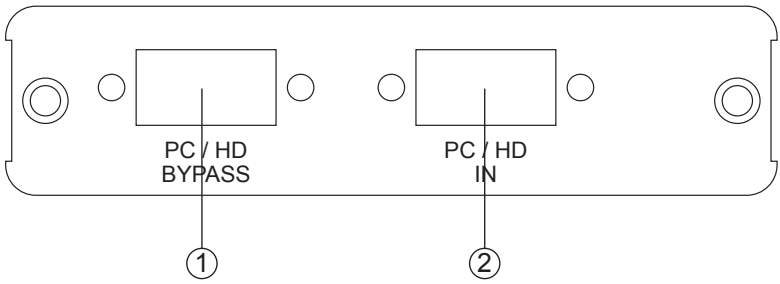
This Scaler Box is designed to upscale PC/HD input sources to PC/HD output of wide-range PC/HD resolutions; the resolution is up to WUXGA/1080p. This unit has a comprehensive OSD menu that allows user to select a variety of output resolutions and adjust for best picture quality.

2. Features

- Scales any PC/HD resolutions to PC (VGA ~ WUXGA)/HD (480i ~ 1080p) resolutions.
- Provides output picture adjustment on contrast, brightness, hue, saturation, sharpness, RGB (color tone) level and aspect ratio size.
- Supports high resolution output:
  PC: VGA, SVGA, XGA, SXGA, UXGA, WXGA, WSXGA, WUXGA.
  SD/HD: 480i, 576i, 480p, 576p, 720p, 1080i and 1080p.
- Supports YPbPr/RGBHV input/output.

3. Operation Controls and Functions

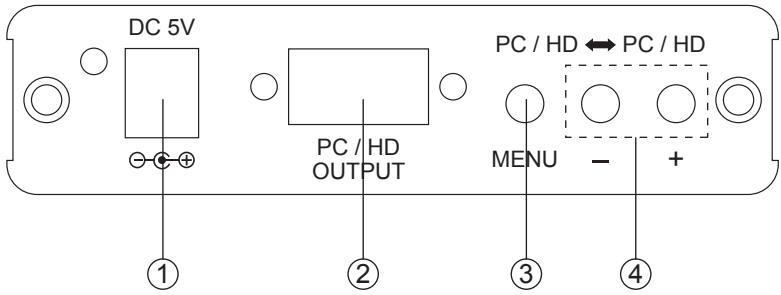
3.1 Front Panel



① PC/HD Bypass: Bypass the PC/HD input signal.

② Input: Connect the PC input D-Sub (15-pin) port to the D-Sub output port of your source equipment such like PC.

3.2 Rear Panel



① Power: Plug the 5VDC power supply into the unit and connect the adaptor to AC wall outlet.

② PC/HD Output: Connect the PC output D-Sub (15-pin) port to the D-Sub input port of your display.

③ Menu Button: Press the MENU button to bring up OSD operation menu. (See section "4. OSD Operation" for reference.)

④ +/- Button:

1. On the first tier of OSD menu, use + and – buttons to move up/down the highlight item for selection.
2. Once the desired option is selected, use + and – buttons to toggle between setting values.

Note: Reset: Press [MENU] and then [-] to switch to 480p mode.
Press [MENU] and then [+] to switch to XGA mode.

4. OSD Operation

1st Tier Option	2nd Tier Option	Adjustment
CONTRAST	-	0 ~ 100 of Contrast Level
BRIGHTNESS	-	0 ~ 100 of Brightness Level
FINETUNE	- HUE	0 ~ 100 of Hue Level
	- SATURATION	0 ~ 100 of Saturation Level
	- SHARPNESS	0 ~ 100 of Sharpness Level
	- EXIT	Back to 1st Tier
COLOR	- RED	0 ~ 100 of Red Color Level
	- GREEN	0 ~ 100 of Green Color Level
	- BLUE	0 ~ 100 of Blue Color Level
	- EXIT	Back to 1st Tier
SIZE	-	FULL / OVERSCAN / UNDERSCAN / LETTERBOX / PANSCAN
OUTPUT	-	NATIVE / VGA / SVGA / XGA / SXGA /UXGA / WXGA / WSXGA / WUXGA / 480i / 480p /720p@60Hz / 1080i@60Hz / 1080p@60Hz / 576i / 576p / 720p@50Hz / 1080i@50Hz / 1080p@50Hz
OSD	- HPOSITION	0 ~ 100 of OSD Horizontal Position
	- VPOSITION	0 ~ 100 of OSD Vertical Position
	- TIMER	0 ~ 100 of OSD Existing Time (sec.)
	- BACKGROUND	0 ~ 100 of OSD Transparent Level
	- EXIT	Back to 1st Tier
INFORMATION	-	SOURCE (Input Interface) INPUT (Input Resolution) OUTPUT (Output Resolution) VERSION (Firmware Version)
EXIT	-	Close OSD Menu

5. Connection and Installation

6. Specifications

Input Port	1 x PC
Output Port	1 x PC
Power Supply	5V/2.6A DC (US/EU standards, CE/FCC/UL certified)
Dimensions (mm)	157(D) x 102(W) x 25(H)
Weight(g)	332
Chassis Material	Aluminum
Silkscreen Color	Silver
Operating Temperature	0°C ~ 40°C
Power Consumption	10W (max)

7. Supports Resolution

Input/Output / Resolution	PC INPUT	PC OUTPUT
	PC/HD	PC/HD
480I/576I (NTSC/PAL)	V	V
480P/576P	V	V
720P@(50/60)	V	V
1080I@(25/30)	V	V
1080P@(50/60)	V	V
VGA@(60/72/75/85)	V	V@60
SVGA@(56/60/72/75/85)	V	V@60
XGA@(60/70/75/85)	V	V@60
SXGA@(60/75/85)	V	V@60
UXGA@60	V	V
WXGA@60(1280x800)	V	V
WSXGA@60(1680x1050)	V	V
WUXGA@60(1920x1200)	V	V

Note: 1920 x 1200 = Reduced Blanking WUXGA

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