

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

Operation Manual



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1. Introduction

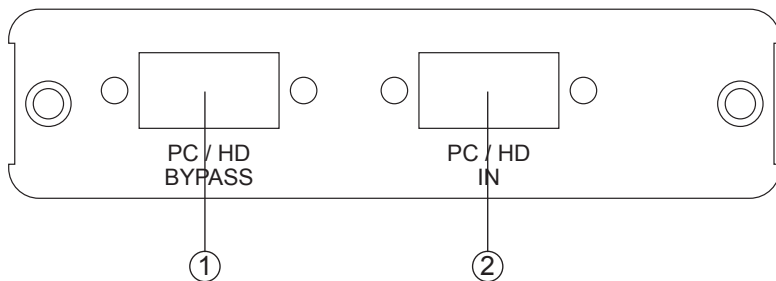
This Scaler Box is designed to upscale PC/HD input sources to PC/HD output of wide-range PC/HD resolutions; the resolution is up to WUXGA/1080p. This unit has a comprehensive OSD menu that allows user to select a variety of output resolutions and adjust for best picture quality.

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.

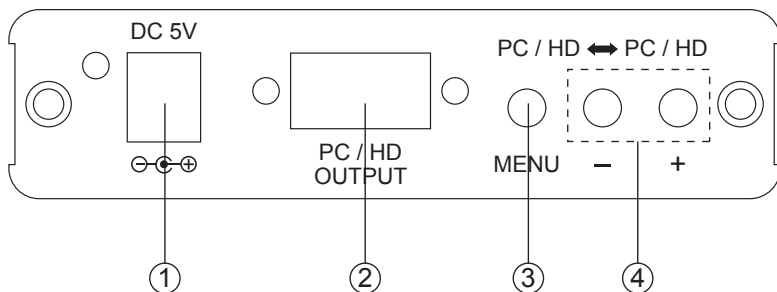
3. Operation Controls and Functions

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: Outside of the OSD menu, press [-] button to active the Auto Adjust function. The screen will show Auto Adjust.
Press [MENU] and then [-] to switch to 480p mode.
Press [MENU] and then [+] to switch to XGA mode.

4. OSD Operation

1 st Tier Option	2 nd 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 1 st Tier
	- PHASE (PC)	0 ~ 100 of Phase Level
	- CLOCK (PC)	0 ~ 100 of Clock Level
	- H-POSITION (PC)	0 ~ 100 of H-Position Level
	- V-POSITION (PC)	0 ~ 100 of V-Position Level
	- EXIT (PC)	Back to 1 st 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 1 st 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 1 st Tier
INFORMATION	-	SOURCE (Input Interface) INPUT (Input Resolution) OUTPUT (Output Resolution) VERSION (Firmware Version)
Mirror	ON/OFF	
EXIT	-	Close OSD Menu

Note: Finetune function works differently under component and VGA input therefore, Hue, Saturation and Sharpness are only adjustable when input signal is component.

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)	✓	✓
480P/576P	✓	✓
720P@(50/60)	✓	✓
1080i@(50/60)	✓	✓
1080P@(50/60)	✓	✓
VGA@(60/72/75/85)	✓	V@60
SVGA@(56/60/72/75/85)	✓	V@60
XGA@(60/70/75/85)	✓	V@60
SXGA@(60/75/85)	✓	V@60
UXGA@60	✓	✓
WXGA@60(1280x800)	✓	✓
WSXGA@60(1680x1050)	✓	✓
WUXGA@60(1920x1200)	✓	✓

Note: 1920 x 1200 = Reduced Blanking WUXGA



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