

# ATLONA AT-HD520 CV/SV TO HDMI 1080P SCALER BOX

Operation Manual



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## 1. Introduction

This Scaler Box is designed to upscale analog video signal from CV/SV input source to digital HDMI output of wide-range HDTV and PC resolutions; up to 1080p. Besides video upscaling, the scaler box also converts digital/analog audio signal to digital/analog format, then output to HDMI combining with the video, TOSLink (Optical fiber), and phone jack (L/R audio) simultaneously. 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

- \* HDMI 1.2, HDCP 1.1 and DVI 1.0 compliant.
- \* Scales any video resolutions to PC (VGA ~ WUXGA)/ HD (480i ~ 1080p) resolutions.
- \* Automatically detect the factory setting of the connected display and output the corresponding resolution and refresh rate, when the NATIVE output is selected.
- \* Supports 50/60 Hz frame rate conversion.
- \* Supports 3-D motion video adaptive, 3-D de-interlacing and 3:2/2:2 pull down detection and recovery.
- \* Provides output picture adjustment on contrast, brightness, hue, saturation, sharpness, RGB (color tone) level and aspect ratio size.
- \* Supports high resolution output (See section "7. Support Resolution" for reference.):  
PC: VGA, SVGA, XGA, SXGA, UXGA, WXGA, WSXGA, WUXGA.  
SD/HD: 480i, 576i, 480p, 576p, 720p, 1080i and 1080p
- \* Supports stereo LPCM analog/digital audio input and stereo LPCM analog/digital output. Simply select among the audio input sources in the OSD menu, then output the audio to HDMI, TOSLink and phone jack simultaneously.
- \* Remote control

Image of the color bar:

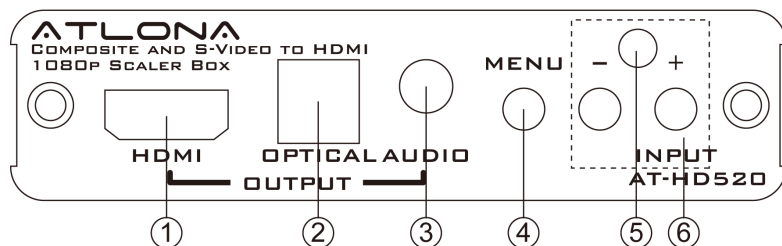
"If user is seeing a color bar, it means that there is no input signal present. The color bar will be active for 15min and after the Atлона device will go to the stand-by mode and disconnect from the display. As soon as incoming video signal will resume, the Atлона device will establish a new connection with the display"

## 3. Package Contents

1. AT-HD520 CV/SV to HDMI 1080p Scaler Box
2. 5VDC Power Supply Adaptor
3. Operation Manual
4. Remote control

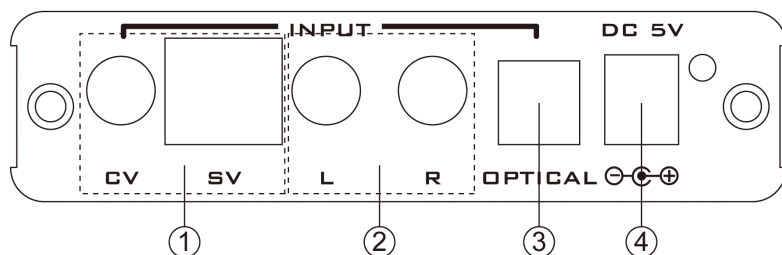
## 4. Operation Controls and Functions

### 4.1 Front Panel



- 1 . HDMI Output: Connect the HDMI output port to the HDMI input port of your display such like HDTV.
- 2 . TOSLink (optical fiber) Output: Connect the optical output port to the digital audio input port of your amplifier.
- 3 . Audio Output: Connect the PC3.5mm phone jack output port to the analog audio input port of your equipment.
- 4 . Menu Button: Press the MENU button to bring up OSD operation menu.  
(See section "4. OSD Operation" for reference.)
- 5 . Remote Control Sensor.
- 6 . +/- Button:
  - a. On the first tier of OSD menu, use + and – buttons to move up/down the highlight item for selection.
  - b. Once the desired option is selected, use + and – buttons to toggle between setting values.
  - c. Without OSD menu, press (INPUT) button to switch between CV and SV

### 4.2 Rear Panel



- 1 . CV/SV Input: Connect the CV/SV port to the input port of your source equipment such like DVD player.
- 2 . L/R Input: Connect the analog audio input port to the output port of your analog audio equipment.
- 3 . TOSLink (optical fiber) Input: Connect the optical input port to the digital audio output port of your source equipment.
- 4 . Power: Plug the 5VDC power supply into the unit and connect the adaptor to AC wall outlet.

## 4.3. 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 / PANSKAN
OUTPUT	-	NATIVE / VGA / SVGA / XGA / SXGA / UXGA / 480i / 480p / 720p@60Hz / 1080i@60Hz / 1080p@60Hz / 576i / 576p / 720p@50Hz / 1080i@50Hz / 1080p@50Hz / WXGA / WSXGA / WUXGA
AUDIO	-	EAR PHONE / OPTICAL
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. Reset Functionality

To reset the unit, press and hold the MENU button then re-plug the DC power into the unit to set the unit back to factory default, with output resolution as NATIVE. This feature is also useful when the output is scaled to a resolution not supported by the connected TV/monitor so no picture is shown, because the NATIVE resolution can guarantee the proper (might not be the best) output.

## 6. Remote Control

### 1. POWER:

Press the button once to power on the AT-HD520.

Press again to enter standby mode.

### 2. INPUT:

Press the button repeatedly to toggle through various input sources.

### 3. Output Resolution:

Press any one of the button to directly select output resolution. For other output resolutions that are not covered by these buttons please enter OSD Menu to select them.

### 4. MENU:

Press the button to bring up OSD main menu page.

### 5. Exit:

Press the button to exit from a sub menu or main menu.

### 6. Up/Down/Left/Right:

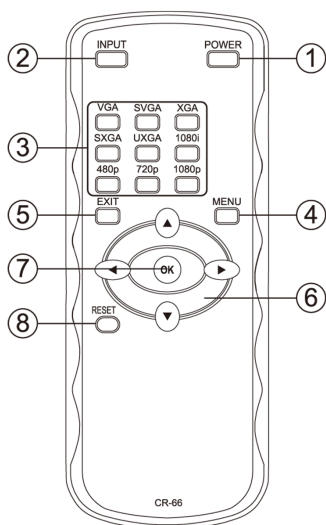
Press the Up/Down button to move the highlight bar to your desired parameter during the OSD operation. Press the Left/Right button to increase/decrease the setting value of a selected parameter.

### 7. OK (Enter):

Press the button to confirm your selection.

### 8. Reset:

Press the button to reset the unit's firmware



## 7. Specifications

### 7.1 General Specification

Input ports	1 x CV/SV, 1 x R/L, 1 x TOSLink (optical fiber)
Output ports	1 x HDMI, 1 x 3.5mm Phone Jack, 1 x TOSLink (optical fiber)
Power Supply	5V/2.6A DC (US/EU standards, CE/FCC/UL certified)
Remote Control	Discrete IR remote
Dimensions (mm)	187(D) x 102(W) x 25(H)
Weight(g)	405
Chassis Material	Aluminum
Silk Skin Color	Black
Operating Temperature	Operating from 0°C ~ 45°C

### 7.2. Support Resolution

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

## 8. Connection and Installation



## Safeguards

- To reduce the risk of electric shock, do not expose this product to rain or moisture.
- If the wall plug does not fit into your local power socket, hire an electrician to replace your obsolete socket.
- Do not modify the wall plug. Doing so will void the warranty and safety features.
- This equipment should be installed near the socket outlet and the device should be easily accessible in case it requires disconnection.
- Avoid excessive humidity, sudden temperature changes or temperature extremes.
- Keep this product away from wet locations such as bathtubs, sinks, laundries, wet basements and swimming pools.
- Use only accessories recommended by ATLONA to avoid fire, shock or other hazards.
- Unplug the product before cleaning. Use a damp cloth for cleaning. Do not use cleaning fluid or aerosols, which could enter the unit and cause damage, fire or electrical shock. Some substances may also mar the finish of the product.

## Precautions

- FCC Regulations state that any unauthorized changes or modifications to this equipment not expressly approved by the manufacturer could void the user's authority to operate this equipment.
- Operate this product using only the included external power supply. Use of other power supplies could impair performance, damage the product or cause fires.
- In the event of an electrostatic discharge, this device may automatically turn off. If this occurs, unplug the device, and plug it back in.
- Protect and route power cords so they will not be stepped on or pinched by anything placed on or against them. Be especially careful of plug-ins, or cord exit points from this product.
- Never open or remove unit panels or make any adjustments not described in this manual. Attempting to do so could expose you to dangerous electrical shock or other hazards. It may also cause damage to your AT-HD520. Opening the product will void the warranty.
- Do not attempt to service the unit. Instead disconnect it and contact your Authorised ATLONA reseller or contact ATLONA directly.

# WARRANTY

## LIMITED ONE-YEAR WARRANTY

ATLONA by Lenexpo Electronics warrants only to the initial purchaser of this product for a period of one year from the date of purchase from an Authorized ATLONA Reseller, the product will be free of electrical and mechanical defects that materially affect the products operation as described in this users manual. Within this period, ATLONA will, at it's sole option, repair or replace any components, which fail of normal use or refund the net original price.

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ATLONA  
2151 O'toole Ave, Ste D  
San Jose CA 95131  
Toll Free: 1-877-536-3976  
International: 408-954-8782  
FAX: 408-954-8792  
Website: [www.atlona.com](http://www.atlona.com)  
E-MAIL: [info@atlona.com](mailto:info@atlona.com)

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