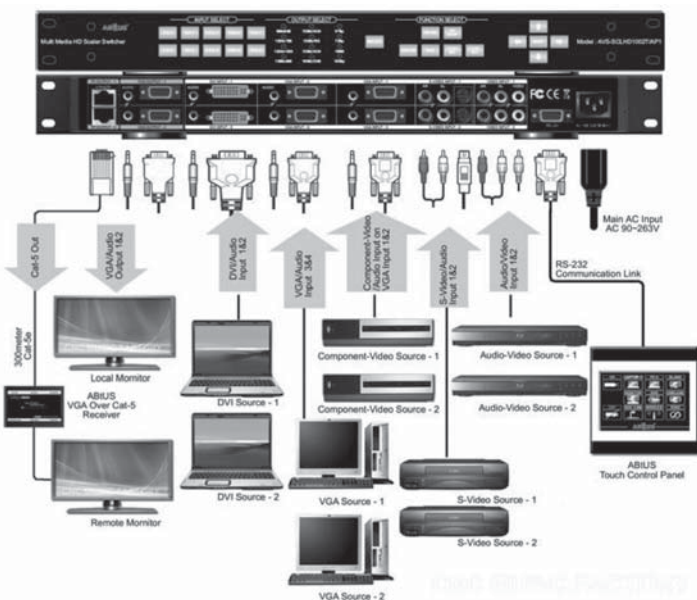


## SPECIFICATIONS

Input	2 x Composite Video/Audio 2 x S-Video/Audio 4 x VGA/Audio 2 x DVI-D digital video OR HDMI 1.3	2 x 3-RCA 2 x 4 pin mini Din /2-RCA 4 x D-Sub 15pin/ 3.5mm min jack 2 x DVI-I
Output	2 x VGA/Audio 2 x Cat 5 extender	4 x D-Sub 15pin/ 3.5mm min jack RJ45 WE/SS 8P8C
Control port	RS-232	1 x D-Sub 9pin
Video Support	800x600, 1024x768, 1024x1024, 1280x960, 1280x1024, 1366x768, 1366x1024, 1600x1200 576p, 720p, 1080i, 1080p 60Hz	
Audio Support	Stereo Audio	
PIP	Picture In Picture	Yes
POP	Picture And Picture	Yes
Power Supply	100 ~ 240 V-AC	
Power Consumption	100W (Fully Active and Loaded) 3W (In standby mode)	
Operating temperature	0~40 °C (32~104 °F)	
Storage temperature	-20~60 °C (-4~140 °F)	
Relative humidity	20~90% RH (no condensation)	
<b>Mechanical</b>		
Housing	Metal enclosure	
	Product	Package
Dimensions (L x W x H)	430 x 204 x 44 mm	504 x 307 x 75 mm
Weight	1.35Kg	1.95Kg
Fixedness	Standard 1-U rack-mount	
<b>Package include</b>		
	1 x Switcher 1 x Power Cord 1 x RS-232 Cable 1 x Quick User Guide	

\* Specifications are subject to changes without notice.



### Typical Applications

Any professional presentation system requiring multiple AV Inputs of all different type of Video standard and a standard standard output format with local and remote monitor.

- Schools (Lab, Hall etc.)
- Churches
- Corporate Applications (Function Room)
- Rental

# Multimedia

## Full HD Presentation Scaler Switcher

HD Presentation Scaler Switcher  
with VGA over Cat-5 Extender Integrated



Model: **AVS-SCLHD1002T/AP1**

### \* Product Related

Model: AVS-SCLHD1002/AP1 (without CAT-5 Extender Integrated)

## PRODUCT DESCRIPTION

ABtUS AVS-SCLHD1002T/AP1 a Multi Media Presentation Full HD Scaler Switcher that provides high quality up or down scaling between standard computer and HDTV signals. Selected inputs are 2 x Composite Video/Audio, 2 x S-Video/Audio, 4 x VGA/Audio OR 4 x YUV Component/Audio, YPbPr (Progressive Scan) Component/Audio (\*with converting cable) as well as 2 x DVI-D or HDMI (\*with convertor) which then scaled up or down with 2 x VGA/Audio output.

It is also in-built with a 2 x VGA/Stereo Audio over single Cat-5 output for long distance remote display extension up to 300meter (\*Rx with skew compensation model: CAT-GA11R/AP3)

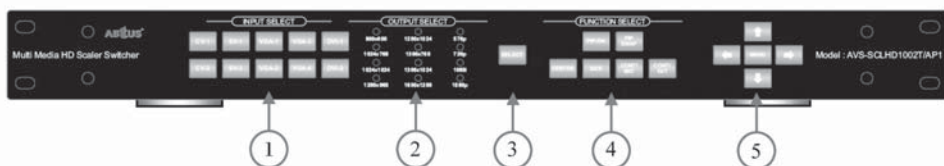
Each incoming Video Signal/Audio gain and parameters can be adjusted independently. The high resolution VGA outputs are selectable as any computer resolution up to 1600x1200 or any HDTV resolution up to 1080p. All the functions can be controlled via the front panel Push Buttons, an On-Screen Display is also available to assist in all setup. The Motion compensation and a 3:2 Pull-down feature for NTSC greatly improve the image quality.

# User Operation Guide

## PRODUCT HIGHLIGHTS

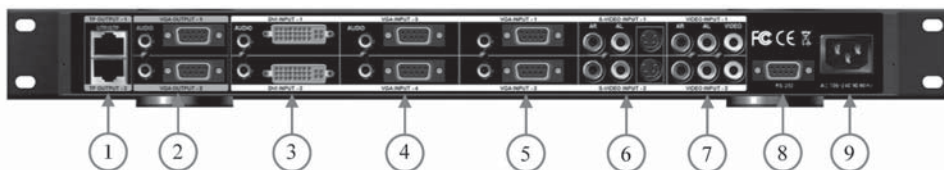
- High quality up or down scaling between standard Computer and HDTV signals
- Logo Capturing (\*base on VGA input)
- PIP/Swap (\*Picture in Picture with size, position and Blending adjustment)
- Max resolution Computer 1600x1200 and HDTV 1080p
- POP/Swap (\*Picture By Picture)
- Close Caption: option CC1, CC2, Text 1 and Text 2 (\*apply to Video input)
- Independence inputs Video/Audio gain and parameter adjustments
- Output includes: 2 x VGA/Audio and 2 x Cat 5 extender up to 300 meter

## FRONT PANEL VIEW



Item	Description
1. Source selection	1.1 CV-1/CV-2 1.2 SV-1/SV-2 1.3 VGA-1/VGA-2/VGA-3/VGA-4 1.4 DVI-1/DVI-2
2. Output Resolution LED Indicator	800x600, 1024x768, 1024x1024, 1280x960, 1280x1024, 1366x768, 1366x1024, 1600x1200, 576p, 720p, 1080i, 1080p 60Hz
3. MODE	"Loop" selection output resolution
4. FUNCTION SELECT	PIP (PIP, POP and Single Loop selection) SWAP (Swap between main and secondary windows in PIP or POP mode) AUTO (Auto adjust for PC Video Parameter **VGA mode only) CONT/BRT (Quick select and adjustment for Video Parameter) SEL (Selection of main Windows)
5. MENU Function	Menu : "On Screen Display" OSD Menu Left/Right (Changing the value of the selected OSD control under "OSD" mode) Up/Down (Selection of the item in OSD control under "OSD" mode) *Left/Right (Changing the value of volume level under "Normal" mode)

## BACK PANEL VIEW



Item	Description
1. Cat-5 Output	RJ-45 VGA/Audio Over Cat-5 output 1&2 (Receiver: CAT-GA11R/AP3)
2. VGA/Audio Output	D Sub 15pin/3.5mm mini jack output 1&2
3. DVI-D Input (Digital Video)	DVI-I connector Input 1&2
4. VGA/Audio Input	D Sub 15pin/3.5mm mini jack Input 3&4
5. VGA/Audio Input	D Sub 15pin/3.5mm mini jack Input 1&2
6. S-Video/Audio Input	4 pin mini Din/2-RCA Input 1&2
7. C-Video/Audio Input	2 x 3RCA Audio/Video Input 1&2
8. RS-232 Communication Port	D Sub 9pin for remote controlling
9. AC Power Input	Before plugging in the power, please check if the power is AC 100~240V 50/60 Hz)

## RS-232 COMMAND CODE

### Communication Parameter

Description	Setting
Baud Rate :	9600bps
Data Length :	8 bits
Parity :	Non Parity
Stop Bit :	One stop bit
X on/Off :	None

### RS-232 connection

Pin	Function
1	- Not Used
2	Tx Transmit data
3	Rx Receive data
4	- Not Used
5	Gnd Signal Ground
6	- Not Used
to	- Not Used
9	- Not Used



Item	Description	Command code (Hex)
1.	Power ON	53 45 54 43 31 30 50 33 31
2.	Power OFF	53 45 54 43 31 30 50 33 30
3.	Get Power status	53 45 54 43 30 31 50 30
4.	Resolution toggle mode	53 45 54 43 37 30 4B 33 31 30 30 31 30 31 30
5.	800x600	53 45 54 43 37 30 52 33 31 30 30 31 30 30 30
6.	1024x768	53 45 54 43 37 30 52 33 31 30 30 31 30 30 31
7.	1024x1024	53 45 54 43 37 30 52 33 31 30 30 31 30 30 32
8.	1280x960	53 45 54 43 37 30 52 33 31 30 30 31 30 30 33
9.	1280x1024	53 45 54 43 37 30 52 33 31 30 30 31 30 30 34
10.	1366x768	53 45 54 43 37 30 52 33 31 30 30 31 30 30 35
11.	1366x1024	53 45 54 43 37 30 52 33 31 30 30 31 30 30 36
12.	1600x1200	53 45 54 43 37 30 52 33 31 30 30 31 30 30 37
13.	576p	53 45 54 43 37 30 52 33 31 30 30 31 30 30 38
14.	720p	53 45 54 43 37 30 52 33 31 30 30 31 30 30 39
15.	1080i	53 45 54 43 37 30 52 33 31 30 30 31 30 31 30
16.	1080p	53 45 54 43 37 30 52 33 31 30 30 31 30 31 31
17.	Volume Up	53 45 54 43 37 30 4B 33 31 30 30 31 30 30 35
18.	Volume Down	53 45 54 43 37 30 4B 33 31 30 30 31 30 30 34
19.	Volume Mute / Un-mute	53 45 54 43 37 30 4B 33 31 30 30 31 30 30 37
20.	CV-1	53 45 54 43 37 30 4B 33 31 30 30 31 30 31 36
21.	CV-2	53 45 54 43 37 30 4B 33 31 30 30 31 30 31 37
22.	SV-1	53 45 54 43 37 30 4B 33 31 30 30 31 30 31 38
23.	SV-2	53 45 54 43 37 30 4B 33 31 30 30 31 30 31 39
24.	VGA-1	53 45 54 43 37 30 4B 33 31 30 30 31 30 32 30
25.	VGA-2	53 45 54 43 37 30 4B 33 31 30 30 31 30 32 31
26.	VGA-3	53 45 54 43 37 30 4B 33 31 30 30 31 30 32 32
27.	VGA-4	53 45 54 43 37 30 4B 33 31 30 30 31 30 32 33
28.	DVI-1	53 45 54 43 37 30 4B 33 31 30 30 31 30 32 34
29.	DVI-2	53 45 54 43 37 30 4B 33 31 30 30 31 30 32 35
30.	PIP Mode	53 45 54 43 37 30 4D 33 31 30 30 31 30 30 31
31.	POP Mode (Picture By Picture)	53 45 54 43 37 30 4D 33 31 30 30 31 30 30 32
32.	Swap	53 45 54 43 37 30 4B 33 31 30 30 31 30 31 34
33.	Single	53 45 54 43 37 30 4D 33 31 30 30 31 30 30 30

\*\* For detail and updated Command and program software, please visit and download from [www.abtussingapore.com](http://www.abtussingapore.com)