



1080p HDMI 1.3b Switcher 4:1

Installation Guide



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Chapter 1


Introduction

Aavara® SW421 allows one of 4 HDMI input (4 inputs like PS3, Xbox, STB, Blu-ray DVD...etc) to 1 HDTV digital screens. It facilities home theater ambiances by switching 4 of your desired HDMI digital contents to 1 HDMI digital screen. CEC* (Consumer Electronic Control) Pass-through allows one TV remote to synchronize your TV and all HDMI AV devices connected (all connected devices required CEC function). Hassle-free with remote controller attached, low cost AV solution to bring you the maximum Joyfulness to your home entertainment.

1.1 Features

- HDMI Specification 1.3b Compliant
- Support HDMI 36-bit Deep Color & x.v.Color wide color gamut
- Supports 480i, 480p, 576i, 576p, 720p, 1080i and 1080p resolution
- Switch 4 HDMI signal inputs to 1 HDMI displays/TV/projectors
- CEC (Consumer Electronic Control) pass-thru
- Audio support Dolby® TrueHD & DTS-HD™ lossless 7.1 digital surround & Lip Sync
- DVI Specification 1.0 Compliant
- HDCP Rev1.2 specification Compliant
- Plug-and-play. Installs in seconds

1.2 Technical Specifications

Model No.	SW421
HDMI Source Input Port	HDMI Single Link, TMDS. 4
Display Device Output Port	HDMI Single Link, TMDS. 1
Interface	<p>DC Power Jack x 1 HDMI Input Connector x 4 (F) HDMI Output Connector x 1 (E) Remote Control x 1</p>  <p>The diagram shows the front panel of the SW421 device with the following components labeled:</p> <ul style="list-style-type: none"> A IR Receiver for Remote Control B Input Channel LED Indicators Active: Selected Input Channel LED Indicator (Yellow) Power-On: Channel LED indicator (Green) C Input Channel Select Button D Adapter DC Input E HDMI Output x 1 (CEC Pass-Thru Support) F HDMI Input x 4
Led Display	HDMI input index x 4 (B)
Operation temperature	+5°C to +35°C
Storage temperature	-20°C to +60°C
Humidity Range	5% to 90% RH
Signal Rate	6.75Gbps
Power Consumption	3W
Video Bandwidth	225 MHz

Single Link Range	480i, 480p, 576i, 576p, 720p,1080i,1080p
HDCP Function	HDCP Rev1.2 Compliant
Cable Length	5M (In and Out respectively)
Power Adapter	9VDC
Enclosure	Metal
Dimension (mm)	245(W) x 107(D) x 27(H) mm
Net Weight (g)	690g /1.52lbs

Chapter 2 Installation

1. Connect the HDMI cable from the 4 of your HDMI devices into the 1080p HDMI 1.3b Switcher 4 Inputs.
2. Connect the HDMI cable from the 1080p HDMI Switcher Output CH1 to your Display (LCD/Plasma TV or projector).
3. Plug 9VDC power supply into the power DC jack.
4. Plug 9VDC wall-mounted power supply into the wall outlet.
5. Power on your HDMI Display.
6. Power on your HDMI Source.

Chapter 3
Troubleshooting

Problem	Solution
HDMI Switcher does not work	<ol style="list-style-type: none">1. Make sure the 9V power is plugged in the HDMI Switcher.2. Check to see if the LED light is on.
No Signal or poor picture	<ol style="list-style-type: none">1. Make sure your video display is HDCP compliant.2. Plug your HDMI cable to source and display directly, if there is no signal or poor picture, please change another cable.3. Make sure all HDMI connectors are tightly secured to all HDMI ports.4. Turn off all equipments and restart all equipments.

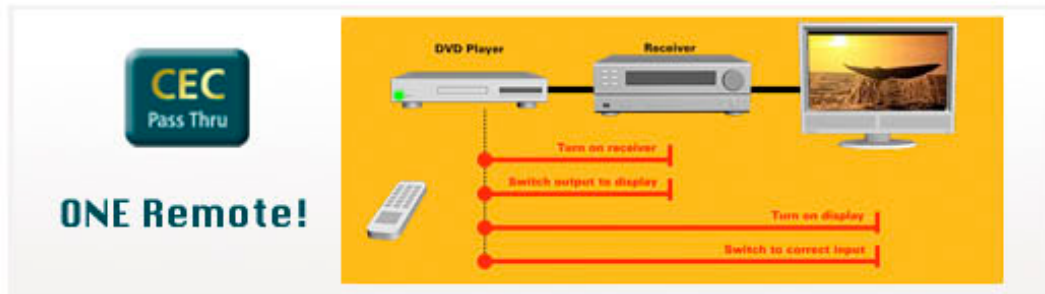
※ If the HDMI Switcher has HDCP compliant issue, please contact your video source device and display/projector seller for HDCP compliant info of the device.



FC CE

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- CEC



CEC (Consumer Electronic Control) Syncs / Touch Control, simplifying home theater ambiance.

- HDCP Compatible** High-bandwidth Digital Content Protection (HDCP) is a form of digital copy protection to prevent copying of digital audio and video content as it travels across DisplayPort, Digital Visual Interface (DVI), High-Definition Multimedia Interface (HDMI)
- DTS-HD™ Master Audio** DTS-HD Master Audio is a lossless audio codec created by Digital Theater System. It was previously known as DTS++ and DTS-HD
- 1080p Full HD** 1080p is the shorthand name for a category of display resolutions. The number "1080" represents 1,080 lines of vertical resolution (1080 horizontal scan lines while the letter "p" stands for progressive scan. 1080p can be referred to as full HD or full high definition to differentiate it from other HDTV video modes¹
- Lip Sync** HDMI 1.3 incorporates an automatic audio/video syncing capability that allows devices to perform this synchronization automatically with accuracy
- PC DVI compatible** The Digital Visual Interface (DVI) is a video interface standard designed to maximize the visual quality of digital display devices such as flat panel LCD computer displays and digital projectors.



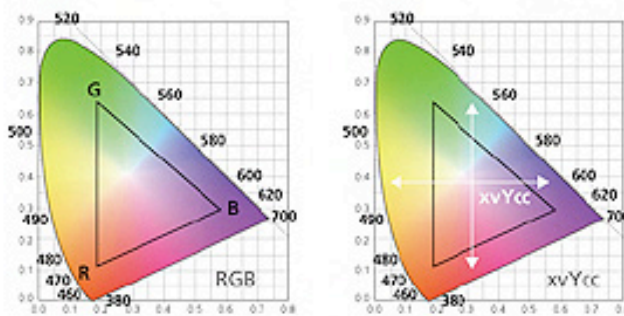
Consumer Electronic Control Pass-Through allows one TV remote to sync interoperability between display/projector and HDMI AV device connected. (output CH1). Alternative names for CEC: SAMSUNG-Anynet+, TOSHIBA-CE-Link, Regza Link, PANASONIC /JVC-VIERA Link™, EZ-SYNE, SONY-Bravia Theater Sync, LG-SimpLink, SHARP-Aquos Link, MITSUBISHI-NetCommand, Philips-Easylink, Onkyo-RIHD.



120/100Hz double frame rate, which is twice as fast as that of standard 60/50Hz HDTVs, to enhance motion-blur reduction on very fast panning scenes or fast-action sports for the ultimate flat-panel TV watching experience.



Enables HDTVs display colors more accurately and purely, broader color space supports 1.8 times as many colors as existing HDTV signals.



Up to 10.2Gbps to support hi-definition display device



Up to 16bit color per pixel color depth for smoother images, higher contrast ratio and eliminates color banding.

Color Depth	8-bit	10-bit	12-bit	16-bit
Possible Colors	17M	1B	69B	280T



Dolby TrueHD, from Dolby Laboratories, is an advanced lossless multi-channel audio codec, intended primarily for high-definition home-entertainment equipment, such as HD DVD and Blu-ray Disc.



HDMI (High-Definition Multimedia Interface) is the digital interface standard for connecting HD components. With just a single cable, HDMI transmits the highest quality digital video and audio between HD devices. Latest Spec. 1.3b.