

User Manual SW-H411AU-BYOD

18G 4x1 Presentation Switcher with

Soft Codec & Wireless BYOD

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Version: SW-H411AU-BYOD_2021V1.2



Preface

Read this user manual carefully before using the product. Pictures shown in this manual are for reference only. Different models and specifications are subject to real product.

This manual is only for operation instruction, please contact the local distributor for maintenance assistance. The functions described in this version were updated till June, 2021. In the constant effort to improve the product, we reserve the right to make functions or parameters changes without notice or obligation. Please refer to the dealers for the latest details.

FCC Statement

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. It has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a commercial installation.

Operation of this equipment in a residential area is likely to cause interference, in which case the user at their own expense will be required to take whatever measures may be necessary to correct the interference.

Any changes or modifications not expressly approved by the manufacture would void the user's authority to operate the equipment.











SAFETY PRECAUTIONS

To ensure the best from the product, please read all instructions carefully before using the device. Save this manual for further reference.

Unpack the equipment carefully and save the original box and packing material for possible future shipment.

Follow basic safety precautions to reduce the risk of fire, electrical shock and injury to persons.

Do not dismantle the housing or modify the module. It may result in electrical shock or burn.

Using supplies or parts not meeting the specifications of product may cause damage, deterioration or malfunction.

Refer all servicing to qualified service personnel.

To prevent fire or shock hazard, do not expose the unit to rain, moisture or install this product near water.

Do not put any heavy items on the extension cable in case of extrusion.

Do not remove the housing of the device as opening or removing housing may expose you to dangerous voltage or other hazards.

Install the device in a place with fine ventilation to avoid damage caused by overheat.

Keep the module away from liquids.

Spillage into the housing may result in fire, electrical shock, or equipment damage. If an object or liquid falls or spills on to the housing, unplug the module immediately.

Do not twist or pull by force ends of the optical cable. It can cause malfunction.

Do not use liquid or aerosol cleaners to clean this unit. Always unplug the power to the device before cleaning.

Unplug the power cord when left unused for a long period of time.

Information on disposal for scrapped devices: do not burn or mix with general household waste, and please treat them as normal electrical wastes.



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1. Product Introduction

Thanks for choosing the 18G 4x1 Presentation Switcher. The switcher is designed with one wireless Miracast/Airplay input, two HDMI inputs, one USB-C input and one HDMI output. It supports HDMI 2.0b, 4Kx2K@60Hz 4:4:4, HDR 10, Dolby Vision, and HDCP 2.2. In addition, there is smart built-in EDID setting can be selected by the 4-pin DIP switch on the front panel.

The switcher supports HDMI audio de-embedding. It also supports USB device extension by providing two Type-B USB ports for host connection, and two type-A USB ports for USB devices such as camera, microphone, keyboard etc.

The switcher features multiple methods of control. When at the AUTO mode, the switcher will automatically switch to the first detected source device. The switcher can be manually controlled by the front panel buttons and RS232 command. CEC allows the display device can be controlled by the front panel buttons and RS232 and CEC commands.

1.1 Features

- 18G 4x1 presentation switcher with soft codec & wireless BYOD.
- Supports HDMI 2.0b, 4Kx2K@60Hz 4:4:4, HDR 10, Dolby Vision and HDCP 2.2.
- Wireless BYOD (Bring Your Own Device) capability via AirPlay and Miracast.
- Provide up to 60w charging, USB data (USB 3.0/2.0) and 4K video transmission USB-C port.
- HDMI output audio can be de-embedded out via balanced analog audio port.
- Two Type-B USB ports for host connection, and two type-A USB ports for USB devices like webcam, microphone and keyboard.
- Supports video source auto-switching.
- Smart EDID management.
- Front panel buttons trigger both CEC and RS232 commands for display control.



1.2 Package List

- 1x SW-H411AU-BYOD 18G 4x1 Presentation Switcher
- 2x Mounting Ears with 4 Mounting Screws
- 4x Plastic Cushions
- 1x 5-pin Terminal Block
- 1x RS232 Cable (3-pin terminal block to DB9)
- 1x External Antenna
- 1x Power Adapter (24V DC 5A)
- 1x User Manual

Note: Please contact your distributor immediately if any damage or defect in the components is found.



2. Specification

Video		
Video Input	(1) AirPlay/Miracast, (2) HDMI, (1) USB-C	
Video Innut Compostor	(1) External antenna connector, (2) Type-A female HDMI,	
Video Input Connector	(1) Type-C USB 3.0	
AirPlay/Miracast Input Resolution	Up to 4K@30Hz 4:4:4	
HDMI Input Resolution	Up to 4Kx2K@60Hz 4:4:4 HDR10, Dolby Vision	
USB-C Input Resolution	Up to 4K@30Hz 4:4:4	
Video Output	(1) HDMI	
Video Output Connector	(1) Type-A female HDMI	
HDMI Output Resolution	Up to 4Kx2K@60Hz 4:4:4 HDR10, Dolby Vision	
HDMI Standard	Up to HDMI 2.0b	
HDCP Version	Up to HDCP 2.2	
Audio		
	Supports Dolby Atmos, Dolby TrueHD, Dolby Digital Plus,	
LIDMI Freehaddad Audia Farrant	Dolby Digital, DTS-X, DTS-HD Master Audio, DTS 5.1, 2 -	
HDMI Embedded Audio Format	8Ch PCM 32-192kHz 16-24 bits; 2-8Ch PCM 32-192kHz 16-	
	24 bits	
Balanced Analog Audio Output	(1) AUDIO OUT	
Balanced Analog Audio Output	(1) 5-pin terminal block	
Connector	(1) 3-piii terriiriai biock	
Frequency Response	20Hz–20KHz, ±3dB	
Max Output Level	2.0Vrms ± 0.5dB	
THD+N	< 0.05%, 20Hz – 20KHz bandwidth, 1KHz sine at 0dBFS	
INDTN	level (or max level)	
SNR	>80dB, 20Hz - 20KHz bandwidth	
Crosstalk Isolation	<-80dB, 10KHz sine at 0dBFS level (or max level before	
Crosstaik isolation	clipping)	
L-R Level Deviation	<0.05dB, 1KHz sine at 0dBFS level (or max level before	
L-IV Level Deviation	clipping)	
Output Load Capability	1Κ Ω and higher (Supports 10x paralleled 10Κ Ω loads)	
Noise Level	-80dB	
Control	,	
Control port	(1) 4-pin DIP switch, (1) FW, (2) HOST (PC1&PC2),	
Control port	(2) DEVICES, (1) RS232	



Control Connector	(1) Micro-USB, (2) Type-B USB 3.0, (2) Type-A USB 3.0, (1) 3-pin terminal block	
Network Connectivity		
WLAN Standards	IEEE 802.11ac	
Band	2.4 and 5GHz	
Max. Wireless Coverage	≤5m, environment dependent, reduce disturbance to increase transmission distance up to 10m	
Max. Output Resolution	4K/30Hz	
Version	iOS 7 or above, MacOS, Android 4.0 or above, Windows8.1 or above.	
General		
Operation Temperature	-5 ~ +55°C	
Storage Temperature	-25 ~ +70°C	
Relative Humidity	10% ~ 90%	
External Power Supply	Input: AC 100~240V, 50/60Hz; Output: 24V DC 5A.	
Power Consumption	85w (Max)	
USB-C Power Charging	60w (Max)	
Dimension (W*H*D)	238mm x 24.5mm x 135mm	
Net Weight	825g	



3. Panel Description

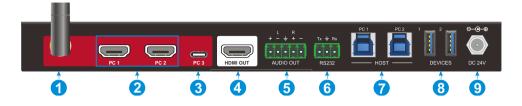
3.1 Front Panel



- ① **POWER LED:** The LED illuminates red when power is applied.
- ② Four Input LEDs: The LED illuminates orange when there is video signal on its corresponding input channel and it will be off when there is no signal detected. It will illuminate green when the video signal is chosen as input source.
- 3 AUTO LED: The LED illuminates green when the switcher is in auto-switching mode, and it will be off when exit the auto-switching mode.
- SELECT AUTO/3s: Press the button to select input source, or press and hold it at least 3 seconds to enable auto-switching mode. Please refer to the <u>5. Button</u>
 Control for more details about switch rules.
- (§) DISPLAY ON: Press the button to send Display On command to turn on the display. Note that the RS232 command needs to be set by user. If an exception occurs at the AirPlay/Miracast input, press and hold the button at least 3 seconds to reset it.
- ⑥ DISPLAY OFF: Press the button to send Display Off command to turn off the display. Note that the RS232 command needs to be set by user.
- **⑦ EDID:** 4-pin DIP switch for EDID setting.
- **8 FW:** Micro USB port for firmware upgrade.



3.2 Rear Panel



- (1) Miracast/Airplay Input: Connect to the external antenna.
- (2) PC1~PC2: Two type-A female HDMI input ports to connect HDMI source devices.
- ③ PC3: Type-C USB with charging capability to connect the Macbook or other device with USB-C output.

Note: The USB 3.0 cable is recommended to be used to ensure optimal machine performance.

- **4) HDMI OUT:** Type-A female HDMI output port to connect display device.
- (5) AUDIO OUT: 5-pin terminal block for audio de-embedding from HDMI output.
- RS232: 3-pin terminal block to connect the RS232 control device (e.g. PC) or a third-party device to be controlled by RS232 commands.
- The Host (PC1&PC2): Two Type-B USB ports to connect HDMI PC1 and PC2 source devices individually.
- ® DEVICE (1&2): Two type-A USB ports to connect USB devices.
 - When the HDMI PC1 is selected as video input source, the USB devices are switched to control the PC1 host.
 - When the HDMI PC2 is selected as video input source, the USB devices are switched to control the PC2 host.
 - When the USB-C PC3 is selected as video input source, the USB devices are switched to control the USB-C PC3.
- DC 24V: DC connector for power adapter connection.



4. System Connection

4.1 Usage Precaution

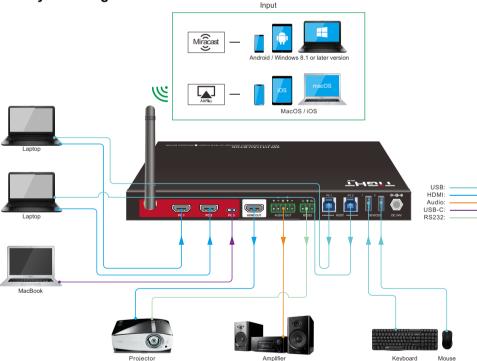
Make sure all components and accessories included before installation.

System should be installed in a clean environment with proper temperature and humidity.

All of the power switches, plugs, sockets, and power cords should be insulated and safe.

All devices should be connected before power on.

4.2 System Diagram





4.3 Miracast/Airplay Connection

Any device (e.g. MacOS/iOS, Android, Windows 8.1 or later Version) that support AirPlay/Miracast can be used as input source.

Below shows iPhone, Samsung Android and Win10 Notebook as examples to introduce the connection of wireless projection.

When switched to the Miracast/Airplay input by pressing the **SELECT AUTO/3s** button, the Wi-Fi SSID and password will be showed on the display device.

SSID: SW-H411AU-BYOD XXXXXX

Password: 12345678



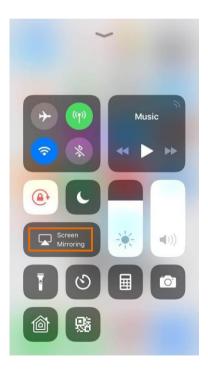


iPhone example:

1) Connect the Apple iPhone to the Wi-Fi.



2) Slide the iPhone screen to enter Control Center, and click the **Screen Mirroring**, and then click the SSID for screen mirroring.

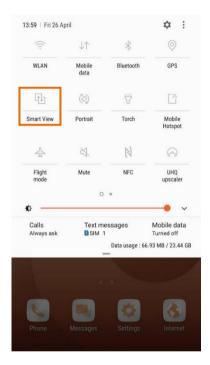






Samsung Android example:

Slide down the Android screen and click **Smart View**, then click the SSID for screen mirroring.





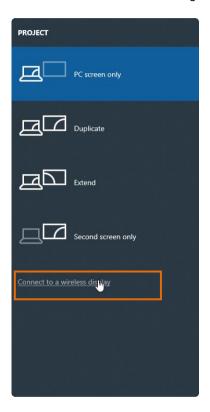
Note: Due to the version upgrade of the YouTube APP, user might experiencing compatibility issue of using the YouTube APP on iOS/Android devices, alternatively, the YouTube web page application is recommended.

Meanwhile, an online upgrade for a new released firmware might be able to improve the compatibility.



Win10 Notebook example:

- 1) Press **Winkey** + **P** on keyboard, and then click **Connect to a wireless display** in the pop-up window.
- 2) Click the SSID for screen mirroring.







The Web UI designed for the SW-H411AU-BYOD allows for settings of the device. The Web UI page can be accessed by typing in http://192.168.203.1 in a web browser

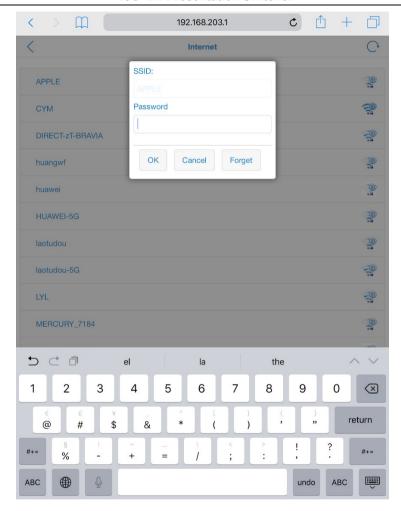


User name: admin

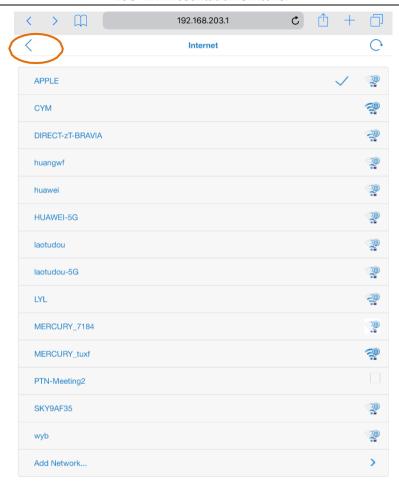
Password: 000000

Please type the user name and password, and then click fingerprint icon to enter the below Internet selection tab, then select an available WIFI and type password.



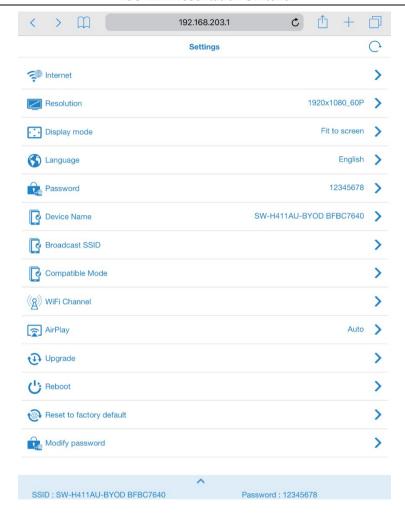






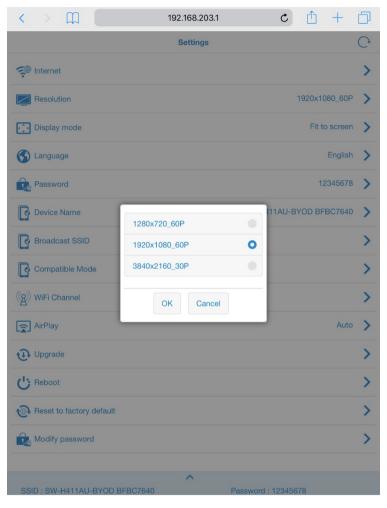
Click on the "<" symbol to enter the below setting section.





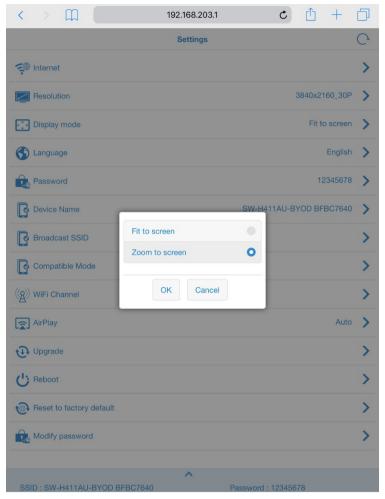


Resolution Selection:



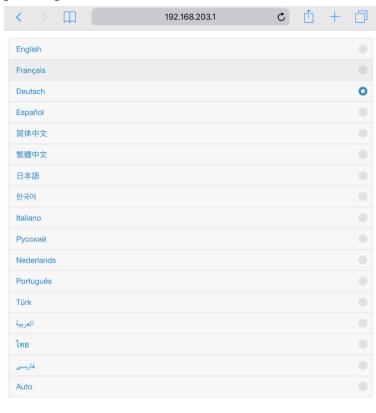


Display Mode Setting:





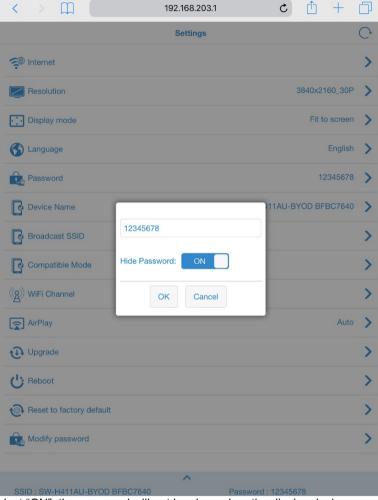
Language Setting:







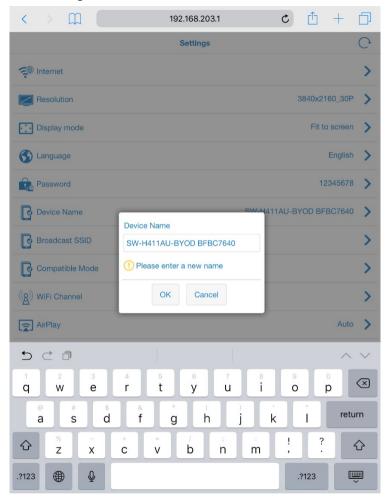
Hide Password Setting:



When select "ON", the password will not be showed on the display device.

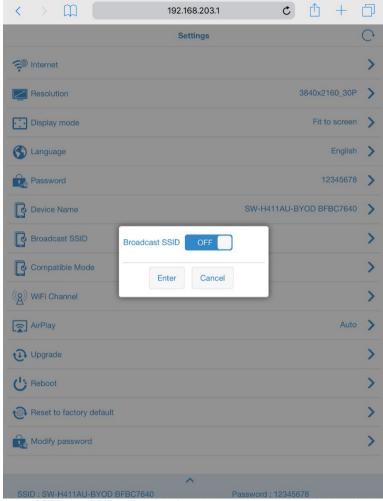


Device Name Setting:





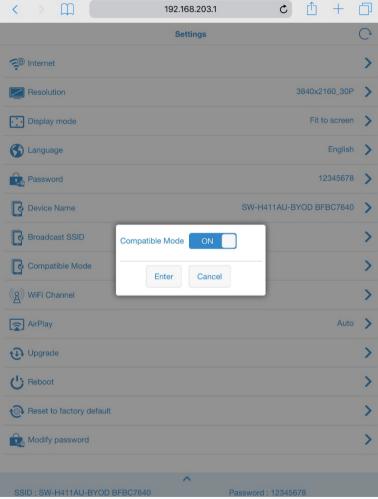
Broadcast SSID Setting:



When select "OFF", the SSID will not be found by wireless source device, but it can be connected by manually adding a new network.



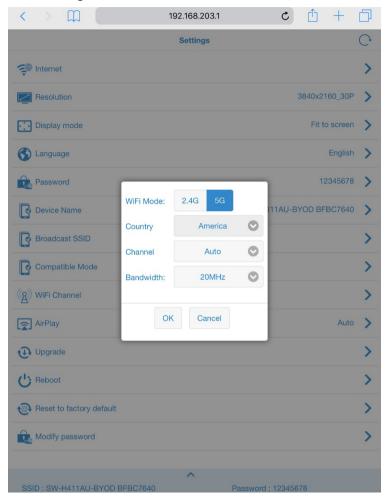
Compatible Mode Setting:



When select "ON", the system is compatible with more wireless source devices.

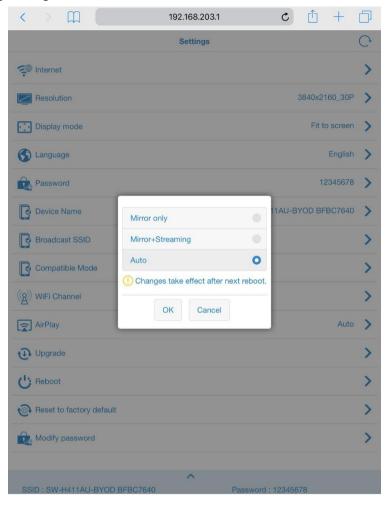


WiFi Channel Setting:



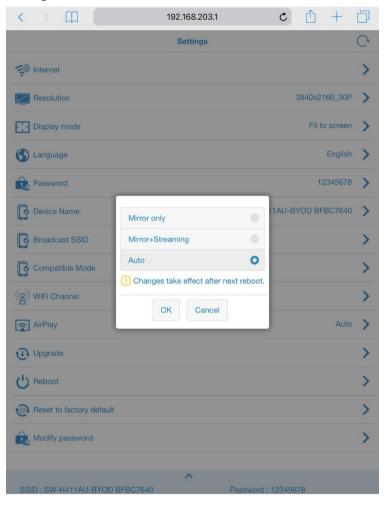


AirPlay Setting:



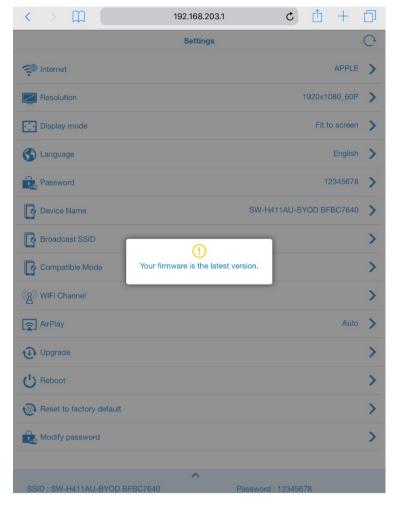


AirPlay Setting:



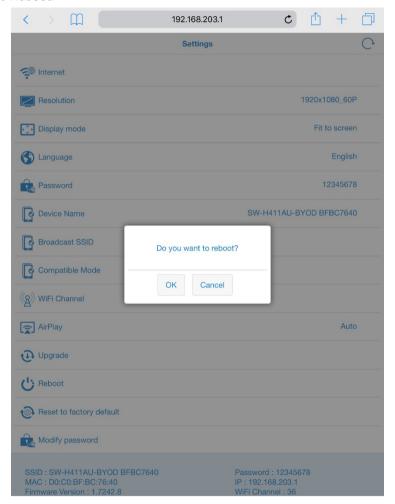
Firmware Upgrade:

Check for updating the latest version. Note that an available internet should be connected before starting firmware upgrade.



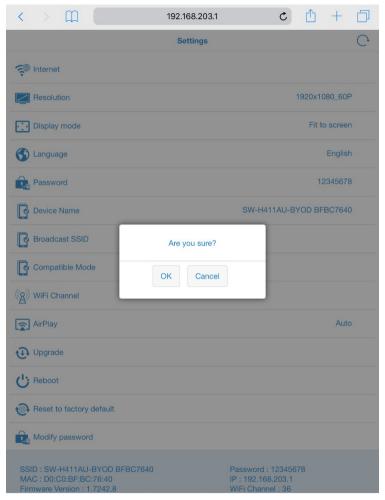


Device Reboot:



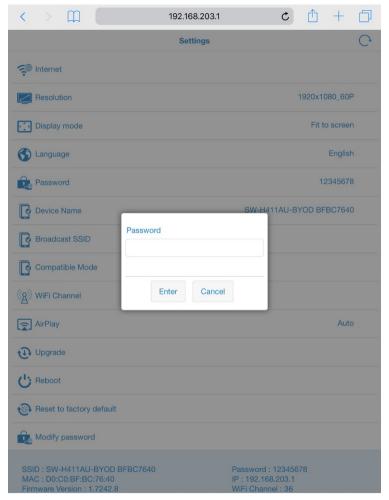


Reset to Factory Default:





Modify Password:





5. Front Panel Control

5.1 Manual-Switching

When the switcher is in the manual switching mode, press the **SELECT AUTO/3s** button repeatedly to cycle through the four video inputs, and the corresponding source LED illuminates green immediately.

5.2 Auto-Switching

Press and hold the **SELECT AUTO/3s** button at least three seconds to enable auto-switching, and the AUTO LED turns green.

When in the AUTO mode, the switcher will switch according to the following rules:

The switcher will switch to the first active input starting at AirPlay/Miracast to PC3.

New input: The switcher will automatically select the new input once detecting a new input.

Reboot: If power is restored to the switcher, it will automatically reconnect the input before shutdown.

Source removed: When an active source is removed, the switcher will switch to the first active input starting at AirPlay/Miracast input to PC3.

In auto mode, the input source also can be switched by the manual switching steps.

Press and hold the SELECT AUTO/3s button at least three seconds again can exit AUTO mode, but the input source will not be changed.

Note that the AirPlay/Miracast is not an active input when there is no screen sharing device connection.

5.3 Display Control

Manual Control: Press the **DISPLAY ON/OFF** buttons on the front panel to simultaneously send RS232 and CEC commands to turn on/off the displaydevice.

Auto Control: When detecting a video input signal (5V or TMDS), automatically send CEC and RS232 commands to turn on the display device. When not detecting any video signal within the setting time (default 10mins), automatically send RS232 and CEC commands to turn off the display device.

The RS232 command can be set by sending commands, please refer to the <u>6.2.5</u> <u>Special Commands</u> for more details.



5.4 EDID Setting

The Extended Display Identification Data (EDID) is used by the source device to match its video resolution with the connected display. The DIP switch on the front panel can be used to set the EDID to a fixed value to ensure the compatibility in video resolution. The switch represents "0" when in the lower (OFF) position, and it represents "1" while putting the switch in the upper (ON) position.



Note: The EDID DIP switch only used for setting the EDID of HDMI source device, and the USB-C source device will automatically gain the EDID of display device.

Switch Status	Video Resolution	Audio Format
0000	EDID Pass-through	
0001	1280x720@60Hz	Stereo
0010	1920x1080@60Hz DVI	-
0011	1920x1080@60Hz 8bit	Stereo
0100	1920x1080@60Hz 8bit	High Definition
0101	1920x1200@60Hz 8bit	Stereo
0110	3840x2160@30Hz 8bit	Stereo
0111	3840x2160@30Hz 8bit	High Definition
1000	3840x2160@30Hz 8bit HDR	Stereo
1001	3840x2160@60Hz Deep Color	Stereo
1010	3840x2160@60Hz Deep Color HDR	High Definition
Switch Status	EDID	Note
1011	User-defined EDID 1	The five user-defined EDID can
1100	User-defined EDID 2	be uploaded by sending RS232
1101	User-defined EDID 3	command
1110	User-defined EDID 4	"#UPLOAD_USER_EDID
		[PARAM]", please refer to the
1111	User-defined EDID 5	chapter <u>6.2.4 Function Setting</u>
		for more details.

Stereo: LPCM 2CH.

High Definition Audio: LPCM 8Ch, AC-3 6Ch, DTS 5.1, Dolby Digital5.1, DTS-

HD7.1, Dolby TrueHD 7.1.

Deep Color: 8bit, 10bit, 12bit.





6. RS232 Control

Connect the RS232 port to control device (e.g. PC) with RS232 cable. The switcher can be controlled by sending RS232 commands.

6.1 RS232 Control Software

Installation: Copy the control software file to the control PC.

Uninstallation: Delete all the control software files in corresponding file path.

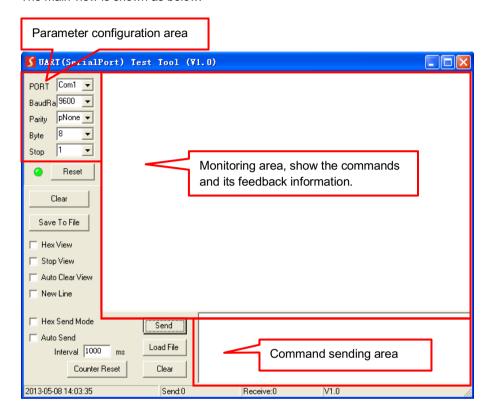
Basic Settings:

Connect the switcher with all input devices and output devices needed, then to connect it with a PC which is installed with RS232 control software. Double-click the software icon to run this software.

Here takes the software **CommWatch.exe** as example:



The main view is shown as below:



Please set the parameters of COM number, bound rate, data bit, stop bit and the parity bit correctly, and then you are able to send command in command sending area.



6.2 RS232 Command

Communication protocol: RS232 Communication Protocol

Baud rate: 9600 Data bit: 8 Stop bit: 1 Parity bit: none

6.2.1 System Control

The ending mark of command is "<CR><LF>".

Command	Description	Command & Feedback Example
getfirmware	Query the firmware version	firmware:1.0.0
reset	Reset to factory default	reset ok
reboot	Reboots the device	reboot ok
help [PARAM]	Get the command details. Iparam]=Null; Get all command list. Iparam]=Any command; Get the English description and usage of the command.	help set:x @SELECT VIDEO AND AUDIO INPUT PORT set:x x=1, 2, 3, 4 1 - Airplay/miracast 2 - PC1 3 - PC2 4 - PC3
resetwireless	Reset Airplay/Miracast power	resetwireless ok
fplockon	Lock front panel buttons.	fplock:on ok
fplockoff	Unlock front panel buttons (Default).	fplock:off ok
getfplock	Get the locking status of the front panel buttons.	fplock:on fplock:off



6.2.2 Source Switching

Command	Description	Command & Feedback Example
set:x	Switch video input x x = 1 - 4 1 - input Airplay/Miracast 2 - input PC 1 3 - input PC 2 4 - input PC 3	set:x ok
getset	Query the video routing	set:1
autoswitchoff	Disable auto-switching mode.	autoswitch:off ok
autoswitchon	Enable auto-switching mode.	autoswitch:on ok
getautoswitch	Get the auto-switching status.	autoswitch:on autoswitch:off



6.2.3 CEC/RS232 Function Setting

The ending mark of command is "<CR><LF>".

Command	Function	Command & Feedback Example
cecautoon	Enable the function of automatically sending CEC commands. When detecting video input signal or not detecting any video signal, the switcher will automatically send the corresponding CEC command to control the display device.	cecauto:on ok
cecautooff	Disable the function of automatically sending CEC commands.	cecauto:off ok
getcecauto	Get the function setting status of automatically sending CEC commands.	cecauto:on cecauto:off
rs232on	Enable the function of automatically sending RS232 commands. When detecting video input signal or not detecting any video signal, the switcher will automatically send the corresponding RS232 command to control the display device.	rs232:on ok
rs232off	Disable the function of automatically sending RS232 commands.	rs232:off ok
getrs232	Get the function setting status of automatically sending RS232 commands.	rs232:off rs232:on
displayon	Power on display device (Simultaneously sending CEC and RS232 commands to display device).	displayon ok
displayoff	Power off display device (Simultaneously sending CEC and RS232 commands to display device).	displayoff ok

6.2.4 Function Setting

The ending mark of command is "<CR><LF>".

Command	Description	Command & Feedback Example
sendtimes:x	Set how many times the display off command is sent $z = 1 - 2$	sendtimes:1 ok sendtimes:2 ok
gettimes	Get the number of sending DISPLAY OFF command.	sendtimes:1 sendtimes:2
delaytimeautooff,minutes :secon	When not detecting video input signal, set the auto power-off time of display device to [PARAM1]: [PARAM2]. The default time is 10 minutes.	delaytimeautooff,10:0 ok
getdelaytimeautooff	Get the auto power-off time of display device.	delaytimeautooff,15:10
delayoff:x	Set the delay time of sending DISPLAY OFF command to [PARAM]. [PARAM]=5~100 (1=100ms).	delayoff:50 ok
getdelayoff	Get the delay time of sending DISPLAY OFF command.	delayoff:50
hdcpmode:on	Turn on HDCP mode 2.2	hdcpmode:on ok
hdcpmode:off	Turn off HDCP mode 2.2	hdcpmode:off ok
gethdcpmode	Query if HDCP mode 2.2 is on or off	hdcpmode:on
hdcp,active	Follow HDCP on input	hdcp,1,active ok
hdcp,on	Turn HDCP "always on" for output	hdcp,1,on ok
gethdcp	Query status of HDCP on output	hdcp,1:on
setedid,x	Upload the user-defined EDID [PARAM]. PARAM = 1 ~ 5 1 - User-defined EDID 1 2 - User-defined EDID 2 3 - User-defined EDID 3 4 - User-defined EDID 4 5 - User-defined EDID 5 When the command applied, system prompts to upload the EDID file (.bin). Operation will be cancelled in 10 seconds.	#UPLOAD_USER_EDID 1 @USER_EDID 1 READY PLEASE SEND EDID DATA IN 10S OK/ERROR



6.2.5 Special Commands

Note: The below commands don't need ending mark.

Command	Description	Command & Feedback
		Example
sendasciion,y,z:xxx	Set the ASCII RS232 command XXXX to be sent to control the third-party device when the DISPLAY ON button is pressed. • [PARAM1] = 00~06 (Baud Rate) 00 - 115200 01 - 57600 02 - 38400 03 - 19200 04 - 9600 05 - 4800 06 - 2400 • [PARAM2] = 00~99. The delay time of sending command. • XXXX: Any ASCII code (up to 48	sendasciion,y,z:xxx ok
sendhexon,y,z:xx xx xx	bytes). Set the HEX RS232 command XX XX to be sent to control the third-party device when the DISPLAY ON button is pressed. • [PARAM1] = 00~06 (Baud Rate) 00 - 115200 01 - 57600 02 - 38400 03 - 19200 04 - 9600 05 - 4800 06 - 2400 • [PARAM2] = 00~99. The delay time of sending command. XX XX: Any HEX code (0-9, A-F; up to 20 bytes. It must have a blank between 2 different XX).	sendhexon,y,z:xx xx xx ok



		Command & Feedback
Command	Description	Example
sendasciioff,y,z:xxx	Set the ASCII RS232 command XXXX to be sent to control the third-party device when the DISPLAY OFF button is pressed. • [PARAM1] = 00~06 (Baud Rate) 00 - 115200 01 - 57600 02 - 38400 03 - 19200 04 - 9600 05 - 4800 06 - 2400 • [PARAM2] = 00~99. The delay time of sending command. • XXXX: Any ASCII code (up to 48 bytes).	sendasciioff,y,z:xxx ok
sendhexoff,y,z:xx xx xx	Set the HEX RS232 command XX XX to be sent to control the third-party device when the DISPLAY OFF button is pressed. • [PARAM1] = 00~06 (Baud Rate) 00 - 115200 01 - 57600 02 - 38400 03 - 19200 04 - 9600 05 - 4800 06 - 2400 • [PARAM2] = 00~99. The delay time of sending command. XX XX: Any HEX code (0-9, A-F; up to 20 bytes. It must have a blank between 2 different XX).	sendhexoff,y,z:xx xx xx ok



7. Firmware Upgrade

Please follow the steps as below to upgrade firmware by the **FW** port on the rearpanel:

- 1) Prepare the latest upgrade file (.bin) and rename it as "FW_MERG.bin" on PC.
- Power off the switcher and connect the FW port of switcher to the PC with USB cable.
- 3) Power on the switcher, and then the PC will automatically detect a U-disk named of "BOOTDISK".
- 4) Double-click the U-disk, a file named of "READY.TXT" would be showed.
- 5) Directly copy the latest upgrade file (.bin) to the "BOOTDISK" U-disk.
- 6) Reopen the U-disk to check the filename "READY.TXT" whether automatically becomes "SUCCESS.TXT", if yes, the firmware was updated successfully, otherwise, the firmware updating is fail, the name of upgrade file (.bin) should be confirm again, and then follow the above steps to update again.
- 7) Remove the USB cable after firmware upgrade.
- 8) After firmware upgrade, the switcher should be restored to factory default by sending command.