# HS4X1-2.0-4K

HDMI 4 in 1 out Switcher for UHD displays up to 4Kx2K@60Hz UHD HDR 4:4:4

This HD Switch allows you to route 4 HD sources to any one display. Built in Auto Scan and Auto Jump feature for convenience. The Switcher can be controlled by front panel, included IR remote or by RS232 and supports HDMI 2.0 and HDCP 2.2.

Features:

- 4 x HDMI input and 1 HDMI output switching
- Supports HDMI 2.0, HDCP 2.2, 4Kx2K@60Hz, 4:4:4, 18Gbps, 3D, HDR
- Control by RS232 or used for firmware updates
- Control by IR remote and front panel buttons
- HDCP pass-through, Audio pass-through
- LED brightness can be adjusted
- Auto scan and Jump features

Panel View:
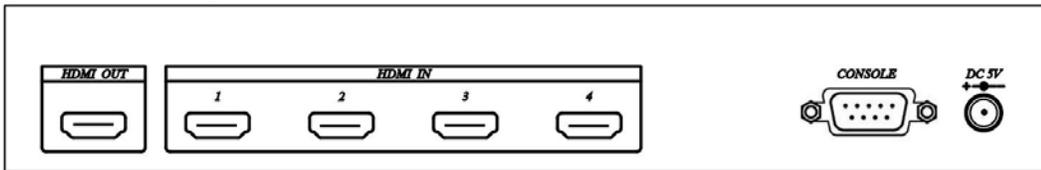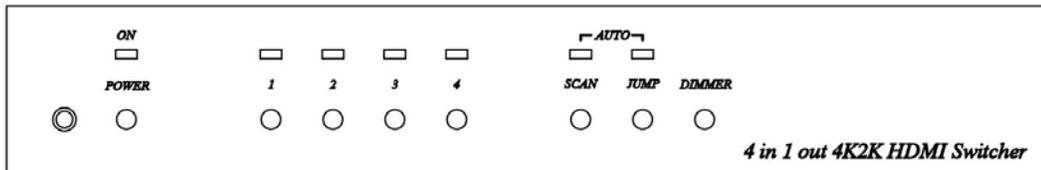
IR Remote Control Setting:

This device could use IR remote control for function setting and control, The ID number must be setup before using IR remote control or when changing batteries.

Setup IR remote ID number: Press and hold "Power Symbol" button and press number 0.

LED Indication:

POWER	ON/OFF	System activate/ standby
	FLASH	Panel button or IR remote control disabled by remote PC
AUTO SCAN	ON/OFF	Auto scan function activated/disabled
AUTO JUMP	ON/OFF	Auto jump function activated/disabled
1, 2, 3, 4	ON	Currently selected input signal channel
	FLASH	No signal input

Panel Button Function:

POWER	System activate/ standby
AUTO SCAN	Auto scan function activated/disabled
AUTO JUMP	Auto jump function activated/disabled
DIMMER	LED brightness adjustment
1, 2, 3, 4	Currently selected input signal channel and disable auto scan function

Remote Control Operating A, B Mode Switching

There are two remote control operating modes: When this device power on, you could switch A,B mode by pressing the panel "power" button and remote control " *" button together.

Mode A operating mode: It come with auto scan & auto jump functions.

Mode B operating mode: When auto scan & auto jump functions no need to use, which only need single button for quick operation on AV switch.

Factory default is set to (Mode A).

IR Remote Control Mode Operation

Symbol	Function Name	Description
POWER	POWER	Power on / standby
UP	UP	Select next available input and activates auto scan function
DOWN	DOWN	Select previous available input and activates auto scan function
LEFT	LEFT	Select previous input and disable auto scan function
RIGHT	RIGHT	Select next input and disable auto scan function
1	Input selection	Currently select input 1 and disable auto scan function
2	Input selection	Currently select input 2 and disable auto scan function
3	Input selection	Currently select input 3 and disable auto scan function
4	Input selection	Currently select input 4 and disable auto scan function
0	Auto Jump	Auto jump function activated / disabled
#	LED	LED brightness adjustment

NOTE: MENU, ENTER, *, 5, 6, 7, 8, 9 are Reserved (no function)

Auto Scan Function:

Under auto scan operation, if the selected input video signal disappears over 0.5 second, it would automatically select the previous or next input with video signal.

Auto Jump Function:

Under auto jump operation, if there is a new video signal input, it will automatically switch to a new video signal input.

LED Brightness Setting:

LED brightness could be set up as the following 4 levels:

 1 Minimum Brightness

 2 Normal Brightness

 3 Maximum Brightness

 4 Brightness auto change

Factory default is set to level 3.

Under Brightness auto change mode, press any button or IR remote control, or video signal changed (video signal disappears or show up), LED status will show the maximum brightness up to 5 seconds then back to the minimum brightness.

PC Remote Control Function:

This RS-232 terminal could be connected with computer, to use terminal program for remote control operation, the communication format is 9600,8,N,1 (9600 Bps, 1 start bits, 8 data bits, 1 stop bit).

Under remote control operation, If it shows 「COMMAND」, then it is "under command mode". It could easily be operated and set by entering the following commands in the chart.

Press「Enter」: if it shows 「OK!」 then the previous command is completed; showing 「ERROR!」 indicates the previous command is incorrect.

Command Mode Instructions:

COMMAND	DESCRIPTION
n	Currently select input and disable auto scan
PRE	Select previous available input and activates auto scan
NEXT	Select next available input and activates auto scan
SCAN y	Auto scan function activated/disabled
JUMP y	Auto jump function activated/disabled
ACTIVATE	System activate
STANDBY	System standby
MODE x	Select operation mode A/B
IR y	IR remote button lock/unlock
KEY y	Panel button lock/unlock
LED n	LED brightness adjustment
SAVE	Save setting
LOAD	Load setting
KEYPAD	Keypad mode operation
SIGNAL	Display input signal status
STATUS	Display setting
VERSION	Display firmware version
?	Show all commands
SYMBOL	**PARAMETER**
n	1 | 2 | 3 | 4
x	A | B
y	ON | OFF

Virtual Remote Control Mode:

➢ Showing 「KEYPAD :」 when it is under virtual remote control mode, which you could enter the following commands at the terminal to simulate the IR remote control operation.

➢ After press command if it shows 「OK!」 then the previous command is executed; showing 「ERROR!」 indicates the previous command is incorrect.

System Activate Virtual Remote Control Mode A/B Operate Description:

COMMAND	DESCRIPTION
MODE A	
1 2 3 4	Currently select input and disable auto scan.
-	Select previous available input and activates auto scan
+	Select next available input and activates auto scan
L	Select previous input and disable auto scan
R	Select next input and disable auto scan
0	Auto jump function activated/disabled
/	System activate/standby
.	LED brightness adjustment
Q	Command mode operation
S	Display setting and input signal status
?	Show all commands
MODE B	
1 2 3 4	Currently select input
-	Select previous input
+	Select next input
L	Select previous input
R	Select next input
/	System activate/standby
.	LED brightness adjustment
Q	Command mode operation
S	Display setting and input signal status
?	Show all commands

System Standby Virtual Remote Control Mode A/B Operate Description

COMMAND	DESCRIPTION
MODE A	
/	System activate/standby
Q	Command mode operation
S	Display setting and input signal status
?	Show all commands
MODE B	
1 2 3 4	Currently select input and system activate
-	Select previous input and system activate
+	Select next input and system activate
L	Select previous input and system activate
R	Select next input and system activate
/	System activate/standby
Q	Command mode operation
S	Display setting and input signal status
?	Show all commands

NOTE: There are some DVD players that still have +5V signal output under power off status, it will cause auto jump and auto scan function abnormal, please disable auto jump and auto scan function to avoid any abnormal operation.

Package Includes

- HS4X1-2.0-4K Switcher x 1

- IR remote x 1

- Mounting screws x 1

- Power adapter x 1

General Specifications:

MODEL	HS4X1-2.0-4K
Connector	HDMI Type A
Input / Output	HDMI Input x 4, HDMI Output x 1
Console	RS232 x 1
Resolutions	Up to 1080p / 60Hz / 48 bpp、3D、4K2K@60Hz (YCbCr 4:4:4)
Function Button	Button x 8
Power Supply	5 VDC 1Amp Regulated Included
Power Consumption	370mA (Max)
Temperature	Operation: 32 ~ 131°F (0 ~ 55°C), Storage: -4 ~185°F (-20 ~ 85°C,) Humidity: up to 95%
Dimensions	9.96" x 5.45" x 1.57" (253mm x 138.5mm x 40mm)
Weight	1.76lbs (800g)
Package Contents	Switcher x 1, 5VDC Power Supply x 1, IR Remote x 1, Screw Pack x 1

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