

HDMI 2.0 HDCP 2.2 4K2K 60Hz HDMI 4 IN 1 OUT Switcher



Ed. 1 November 2016

ITEM NO.: HS04-4K6G

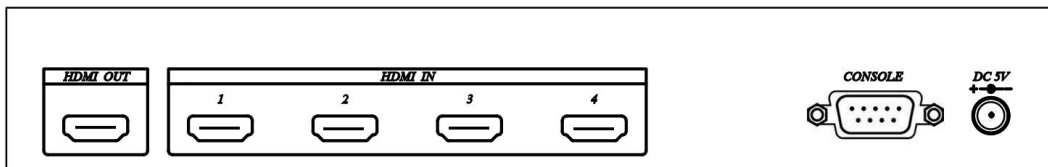
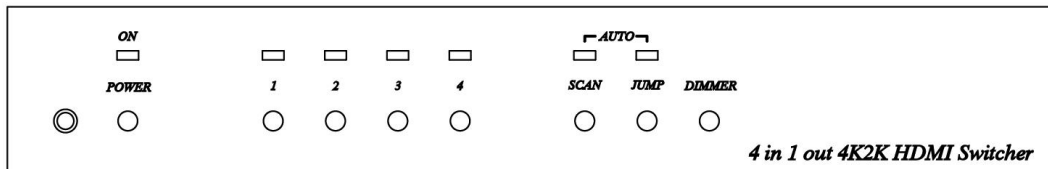
The HS04-4K6G HDMI switcher allows four UHDTV (6G) HDMI sources to share one video display. Built in Auto Scan and Auto Jump function for extended application. Auto Scan is useful when it's compulsory to have always a signal on the output; in this case the Switcher scans the inputs and connects to the output the active one that is more adjacent to the input whose signal has been missed. The Auto Jump is useful in the conference room where is requested to have on output the last signal connected to one out of the 4 input.



- Built in RS232 for PC remote control or firmware update.
- HDMI 2.0 compliance, HDCP 1.4/2.2 complaint.
- Support Deep Color 12 Bits/Color, Data rate up to 6Gbps and 3D capable.
- Supports high resolution input: 480i, 576i, 480p, 576p, 720p, 1080i, 1080p 60Hz, 4K2K 30Hz, 4K2K 60Hz (YCbCr 4:4:4) (must to use Premium HDMI cable)
- HDCP pass-through.
- LED brightness can be adjusted for different environment.
- Built in auto scan switching input function, to automatically select the next input with active signal
- Built in auto jump function, to automatically select the new active input.

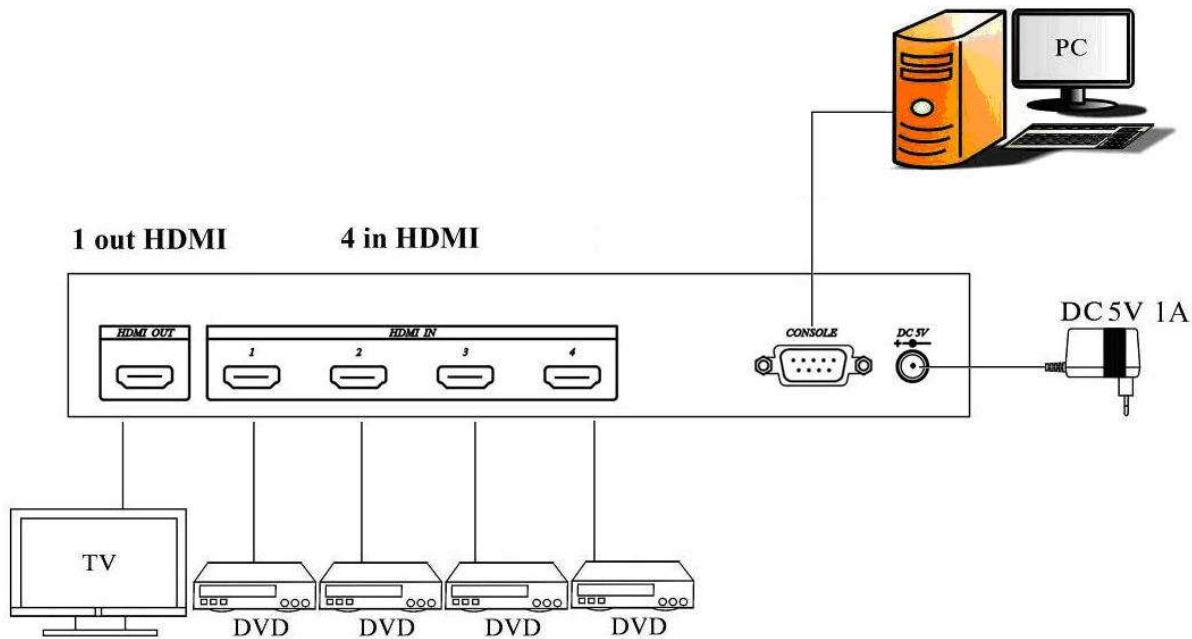
Panel View:

HS04-4K6G



Installation View:

HS04-4K6G



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 select input signal channel and disable auto scan function.

IR Remote Control Setting :

This device could use IR remote control for function setting and control.

Warning

The ID number must be setup before using IR remote control or when new batteries are placed.

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

IR Remote Control Operating A,B Mode Switching:

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

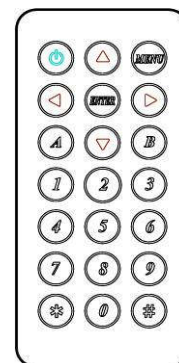
Mode A operating mode: It works with auto scan and auto jump functions.

Mode B operating mode: When auto scan and auto jump functions are not necessary, you use the single button for quick operation on AV switch.

Factory default is set to Mode A.

IR remote control Mode A Operating:

⏻ Power symbol	System activate/standby.
▲	Select next available input and activates auto scan function.
▼	Select previous available input and activates auto scan function.
◀	Select previous input and disable auto scan function.
▶	Select next input and disable auto scan function.
1、2、3、4	Currently select input and disable auto scan function.
0	Auto jump function activated/disabled.
#	LED brightness adjustment.
MENU, ENTER, *, 5, 6, 7, 8, 9	Reserved (no function) .



IR remote control Mode B Operating:

⏻ Power symbol	System activate/standby.
▲	Select next input and system activate.
▼	Select previous input and system activate.
◀	Select previous input and system activate.
▶	Select next input and system activate.
1、2、3、4	Currently select input and system activate.
#	LED brightness adjustment.
MENU, ENTER, *, 5, 6, 7, 8, 9, 0	Reserved (no function) .

Auto Scan Function:

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

Auto Jump Function:

Under auto jump operation, if there is a new video signal input, it automatically switches to this 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 turns back to the minimum brightness.

RS232 Computer Remote Control Function:

The RS-232 connector must be connected to a computer on which a terminal program for remote control operation runs.

Use a straight RS232 cable m/f.

The communication format is 9600 Baud, 8 data bits, no parity, 1 stop bit.

Under RS232 remote control operation, if the Switcher, after every command, sends back "COMMAND:", it means that it is "under command mode". Operate by sending the commands written in the chart below.

Always Press "**Enter**" (hex 0D) to close the command: after the command, if the Switcher shows "OK!", it means that the previous command is executed; if it shows "ERROR!", this indicates that the previous command syntax is not correct.

Command Mode Instruction:

[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

Space characters between the command and parameters can be ignored. Command are case insensitive. Close all commands by "**Enter**" (hex 0D)

Virtual Remote Control Mode:

When the Switcher is under virtual remote control mode, after every command, it sends back "KEYPAD" : that means that you can send the commands below written to simulate the IR remote control operation.

Under virtual remote control mode, **it's not** necessary to press "Enter" (hex 0D) to close the command. After the command, if the Switcher shows "OK!", it means that the previous command is executed; if it shows "ERROR!", this indicates that the previous command syntax is not correct.

System Activated Virtual Remote Control Mode A/B Operate description:

➤ MODE A :

[COMMAND]	[DESCRIPTION]
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 :

[COMMAND]	[DESCRIPTION]
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 in Standby Virtual Remote Control Mode A/B Operate description:

➤ MODE A :

[COMMAND]	[DESCRIPTION]
/	System activate/standby.
Q	Command mode operation.
S	Display setting and input signal status.
?	Show all commands.

➤ **MODE B :**

[COMMAND]

[DESCRIPTION]

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.

Warning

There are some DVD equipments that still have +5V signal output under power off status.
It will cause undesired auto jump and auto scan functions.
Please disable auto jump and auto scan function to avoid any abnormal operation.

Package Include:

HS04M-4K6G Switcher x 1 pcs
IR remote control x 1 pcs
Mounting Screw pack x 1 bags
Power Adapter x 1 pcs

Specification:

ITEM NO.	HS04-4K6G
Connector	HDMI Type A
Input / Output	HDMI (Input) x 4,HDMI (Output) x 1
Console	RS232 x 1
Resolutions	Up to 1080p / 60Hz / 16 bit, 3D, 4K2K 60Hz (YCbCr 4:4:4) (4K2K 60Hz must work with Premium HDMI cable)
Function Button	Button x 8
Power Supply	5V DC 1 A (External Power Supply)
Power Consumption	2 VA (Max)
Temperature	Operation: 0 to 55°C, Storage: -20 TO 85°C, Humidity: up to 95%
Dimensions mm	253 x 138.5 x 40 (mm)
Weight g	800 g



Rev. A



Elpro Video Labs srl - Str. della Pronda 45B 10142 Torino – Italy
Tel. +39011 770 1583 www.elprovideolabs.com info@elprovideolabs.com