



2-Port 4K HDMI KVM Switch with PBP Roaming Mouse & PIP User Manual



04-1383A

P/N: CE-KV0G11-S1

Features

- Supports Video Scaler & PIP/PBP Video Mixer Up to 4K@30Hz (4:4:4)
- Unique Full-Frame PBP doesn't sacrifice any display area for PBP
- Image stays unstretched in PBP Modes
- Zero-Latency Swap between PIP & Full-Screen Mode
- User Can Adjust PIP Images' Size / Location / Transparency
- 8 sets of user's presets for fast configuration
- HDCP 1.4 Compliant
- 4K Scaler Function Ensure Pixel-to-Pixel Matching for Most Displays
- 3 Ways Control Methods for Easy Selection :
Front Panel Push Buttons
Hotkey Control
Roaming Mouse Switch
- Keyboard & Mouse Plug-n-Play, No Software & Drivers Required
- Support Windows / Linux
- Support 3.5mm Audio & HDMI Audio

Package Contents

- 2-Port 4K HDMI KVM Switch with PBP Roaming Mouse & PIP
- Power Adapter 12V/1.5A
- User manual

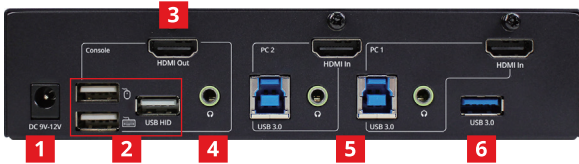
Layout

Front Panel



1. USB HID console port
(for keyboard & mouse use only)
2. USB 3.0 port at console for USB peripherals
5Gbps, 5V/900mA,
3. Link: Green, connected PC is power on
Select: Red, connected PC is selected
4. Switch Button: Press to select PC

Rear Panel



1. Power Jack: DC 12V/1.5A
(support DC 9V -12V, 1.5A)
2. USB HID console ports
(for keyboard & mouse use only)
3. HDMI output: resolution up to 4K@30Hz
4. Speaker/Earphone port at console
connect to Speaker/Earphone
5. PC-x input ports:
HDMI input for PC-x
USB 3.0 Type-B port for PC-x
Speaker/Earphone port for PC-x
6. USB 3.0 port at console for peripherals
5Gbps, 5V/900mA

Hotkey Control

Basic Operation

Operation of the KVM switch is mainly through hotkey controls.

Hotkey Leading Codes (HK_LCode)

A Hotkey command is a short keyboard sequence for selecting a computer, activating computer scan, etc. KVM Switch interprets keystrokes for hotkeys all the time. A hotkey sequence starts with HK_LCode followed by one or two more keystrokes. A built-in buzzer generates a high-pitch beep for correct hotkey command; otherwise, one low-pitch beep generates for error and the bad key sequence will not be forwarded to the selected computer.

3 Ways HK_LCode :

HK_LCode 1L : **“L-Ctrl” + “L-Ctrl”**
(Default)

HK_LCode 1R* : **“R-Ctrl” + “R-Ctrl”**

***How to :** “HK_LCode” + “L-Alt (Hold)” + “R-Ctrl (Hold)” + “Release “R-Ctrl” then “L-Alt”.
(To switch back from R-Ctrl Oriented to L-Ctrl Oriented, swap R-Ctrl with L-Ctrl in above operation.)

HK_LCode 1L can be Turned On/off to facilitate usage with other hotkey related products.
Simply input : “HK_LCode” + “L-Ctrl” or “R-Ctrl” (with respect to HK_LCode 1 situation)”

In most cases, HK_LCode 1 is the most convenient to use.

HK_LCode 2 : **“L-Shift (Hold)” + “Num Lock”**
+ **“Num Lock”** + Release **“L-Shift”**

HK_LCode 3 : **“Scroll Lock” + “Scroll Lock”**



Screen Layout Control

Use Hotkey to Control Screen Layout Modes

(Switch between modes or resolutions might take 10-12 seconds)

Screen Layout**	Support Resolution (Display Native Resolution) Respective Command (HK_LCode + "L-Win" Hold + ...)					
	3840x2160 @30Hz	2560x1440 @60Hz	1920x1080 @60Hz	3440x1440 @50Hz	2560x1080 @60Hz	3840x1080 @60Hz
Mode 1 (PBP - T/B)	1U	1Q	1F	--	--	--
Mode 2 -Landscape (PBP - L/R)	2U	2Q	2F	2N	2M	2Y
Mode 2 -Portrait (PBP - T/B)	2U	2Q	2F	2N	2M	2Y
Mode 0 (Full Screen)	0U / 0R* / 0H*	0Q / 0G*	0F	0N / 0O*	0M	--
Mode 7 (PIP Mode)	7U / 7R* / 7H*	7Q / 7G*	7F	7N / 7O*	7M	--

* These modes are up-scaled outputs as follows :

0R / 7R : Input = 2560x1440@60hz & Up-Scaled to 3840x2160@30Hz Output

0H / 7H : Input = 1920x1080@60Hz & Up-Scaled to 3840x2160@30Hz Output

0G / 7G : Input = 1920x1080@60Hz & Up-Scaled to 2560x1440@60Hz Output

0O / 7O : Input = 2560x1080@60Hz & Up-Scaled to 3440x1440@30Hz Output

This Video Up-Scaling Function Is Specially Useful for Source Compatibility or KVM Extender Compatibility. For Example :

1. Source Is Capable of Only 1080p Output
2. Source Is Placed 150M away & Requires Long-Reach Function of HDBaseT Extension (1080p)
In Such Cases, The Scaled Output Can Improve Image Clarity on Modern Hi-Resolution Displays.

** Switching between screen layout modes might require image fine-tuning
(User can save fine-tuned setting to user's presets)

PBP Modes (Mode 1 & 2)



Mode 1 (Top - Bottom PBP)

(a) HK_LCode+"L-Win"(Hold)+"1"+"U"/"Q"/"F"

(See **Screen Layout Control**)

(b) HK_LCode+"L-Alt"(Hold)+"Q"+"1"

(To Configure Roaming Mouse Top-Bottom Mode, If necessary)

Mode 1 Features Vertical PBP Mode, The KVM Switch Sends *Proper EDID* to Both Video Source. The Display Must Support Top-Bottom PBP Function. Roaming Mouse is Configured as Top-Bottom & No Boundry.



Mode 2 - Landscape (Left-Right PBP)

(a) "L-Ctrl"+"L-Ctrl"+"L-Win"(Hold)+"2"+"U"/"Q"/"F"/"N"/"M"/"Y" (See **Screen Layout Control**)

(b) HK_LCode+"L-Alt"(Hold)+"Q"+"2"

(To Configure Roaming Mouse Left-Right Mode, If necessary)

Landscape

Mode 2-Landscape Features Left-Right PBP Mode, The KVM Switch Sends *Proper EDID* to Both Video Source. The Display Must Support Left-Right PBP Function. Roaming Mouse is Configured as Left-Right & No Boundry.



Landscape



Portrait

Mode 2 - Portrait (Top-Bottom PBP)

(a) Turn The Display 90°

(b) Configure 2 Computers to Display 90° Views

(c) HK_LCode+"L-Win"(Hold)+"2"+"U"/"Q"/"F"/"N"/"M"/"Y"

(See **Screen Layout Control**)

(d) HK_LCode+"L-Alt"(Hold)+"Q"+"1"

(To Configure Roaming Mouse Top-Bottom Mode, If necessary)

Mode 2 - Portrait Features Top-Bottom PBP Mode, The KVM Switch Sends *Proper EDID* to Both Video Source. The Display Must Support Top-Bottom PBP Function. Roaming Mouse is Configured as Top-Bottom & No Boundry.

Full Screen & PIP Modes (Mode 0 & 7)



Mode 0 (Full Screen)

(a) HK_LCode+"L-Win"(Hold)+"0"+"U"/"Q"/"F"/"N"/"M"/"R"/"H"/"G"/"O"
(See Screen Layout Control)

Mode 0 Features Full Screen Mode. The Unit Works Like Traditional KVM Switch. User Can Copy EDID from Main Output in This Mode. Click Port Selection Button to Switch Computer. Roaming Mouse Disabled in This Mode.

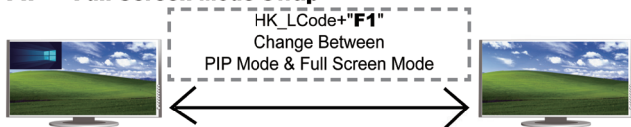


Mode 7 (PIP)

(a) HK_LCode+"L-Win"(Hold)+"7"+"U"/"Q"/"F"/"N"/"M"/"R"/"H"/"G"/"O"
(See Screen Layout Control)

Mode 7 Features PIP Mode. Selected Computer's Content Are Shown on Display as PIP Image. Click Port Selection Button to Switch Computer. Roaming Mouse Disabled in This Mode

PIP<->Full Screen Mode Swap



PIP Location Control

Set PIP Screen to Top-Left

HK_LCode+"L-Win"(Hold)+"F2"



Set PIP Screen to Top-Right

HK_LCode+"L-Win"(Hold)+"F1"



Set PIP Screen to Bottom-Left

HK_LCode+"L-Win"(Hold)+"F3"



Set PIP Screen to Bottom-Right

HK_LCode+"L-Win"(Hold)+"F4"



Full Screen & PIP Modes (Mode 0 & 7)

PIP Size Control



Enlarge Main Screen

HK_LCode+"L-Win"(Hold)+"Page Up"

Shrink Main Screen

HK_LCode+"L-Win"(Hold)+"Page Down"



Enlarge PIP Screen

HK_LCode+"L-Win"+(Hold)+"↑"

Shrink PIP Screen

HK_LCode+"L-Win"(Hold)+"↓"

PIP Transparency Control



Increase PIP Screen Transparency

HK_LCode+"L-Win"(Hold)+"→"

(More Transparent)

Decrease PIP Screen Transparency

HK_LCode+"L-Win"(Hold)+"←"

(Less Transparent)

Advanced Operation

Image Fine-Tuning

Image Re-Synchronize

If the image engine doesn't work properly, image re-synchronization should be proceed to resume normal operation.



Image Resynchronize

HK_LCode+"L-Win"(Hold)+"L-Alt"(Hold)+"Del"

Video Compensation Adjustment

In different resolution & layouts, there might be slight difference in compensation requirement which might result in image flicker. Adjust video compensation can greatly improve image quality under such circumstances.



Adjust Port 1 Video Compensation

HK_LCode+"L-Win"(Hold)+"F11"+"↑"/"↓"

Adjust Port 2 Video Compensation

HK_LCode+"L-Win"(Hold)+"F12"+"↑"/"↓"

User's Presets

User can restore up to 8 presets.

Save Current Setting to User's Preset (1~8)

HK_LCode+"L-Win"(Hold)+"L-Shift"(Hold)+"="+"F1"~"F8"

Load User's Preset (1~8)

HK_LCode+"L-Win"(Hold)+"L-Shift"(Hold)+"F1"~"F8"

Hotkey Control - Basic

Key Sequence	Function
HK_LCode + "1" ~ "2"	Computer Port Selection 1~2
HK_LCode + "F5"	Audio Follow Port Switching Off / On
HK_LCode + "A"	Force Audio Follow to Current Port
HK_LCode + "F7"	USB 3.2 Gen 1 Follow Port Switching On / OFF
HK_LCode + "U"	Force USB 3.2 Gen 1 Follow to Current Port
HK_LCode + "L-Alt"(Hold) +"R-Ctrl" + Release"L-Alt"	Change HK_LCode "L-Ctrl" to "R-Ctrl"
HK_LCode + "L-Alt"(Hold) +"L-Ctrl" + Release"L-Alt"	Change HK_LCode "R-Ctrl" Back to "L-Ctrl"
HK_LCode + "L-Alt"(Hold) + "F" + "A" + "C"	Return to Factory Default
HK_LCode + "Caps Lock"	Find Mouse Cursor (Mouse Cursor Moves to Center of The Desktop)
HK_LCode + "Tab"	Swap Port 1 & Port 2 Video Position
HK_LCode + "9"	Swap Port 1 & Port 2 Control
HK_LCode + " L-Shift "(Hold) + "↑" / "↓"	Switch Control to Previous / Next Enabled Computer

Hotkey Control - Mouse Roaming

Key Sequence	Function
HK_LCode + "L-Alt"(Hold) + "Q" + "1"	Set Roaming Mouse Alignment = Vertical
HK_LCode + "L-Alt"(Hold) + "Q" + "2" / "3" / "4"	Set Roaming Mouse Alignment = Horizontal
HK_LCode + "L-Alt"(Hold) + "Q" + "0"	Turn Off Roaming Mouse Function
HK_LCode + "L-Alt"(Hold) + "Q" + "9"	Turn On Roaming Mouse Function
HK_LCode + "L-Alt"(Hold) + "↑"	Increase Mouse Moving Speed (Lower DPI)
HK_LCode + "L-Alt"(Hold) + "↓"	Decrease Mouse Moving Speed (Higher DPI)
HK_LCode + "L-Alt"(Hold) + "S"	Mouse Speed Setting : Beep Once = Low , Twice = Mid , 3 Times = High
HK_LCode + "L-Alt"(Hold) + "xx" (XX = 01~48)	Mouse Speed Setting : Higher Number = Slower Speed
HK_LCode + "L-Alt"(Hold) + "R"	Enable/Disable Borderless Circulation

Hotkey Control - PIP/PBP Video Mixing

Key Sequence	Function
PBP FUNCTION	
HK_LCode + "L-Win"(Hold)+"1"+"U" / "Q" / "F"	Mode 1 (Top-Bottom PBP Mode) See Screen Layout Control
HK_LCode + "L-Win"(Hold)+"2"+"U" / "Q" / "F" / "N" / "M" / "Y"	Mode 2 (Left-Right PBP Mode) See Screen Layout Control
Full Screen & PIP FUNCTION	
HK_LCode + "L-Win"(Hold)+"0"+"U" / "Q" / "F" / "N" / "M" / "R" / "H" / "G" / "O"	Mode 0 (Full Screen Mode) See Screen Layout Control
HK_LCode + "L-Win"(Hold)+"7"+"U" / "Q" / "F" / "N" / "M" / "R" / "H" / "G" / "O"	Mode 7 (PIP Mode) See Screen Layout Control
HK_LCode + "L-Win"(Hold)+"F1"~"F4"	Configure PIP Screen Position : F1 = Top-Right, F2 = Top-Left, F3 = Bottom Left, F4 = Bottom-Right
HK_LCode + "L-Win"(Hold)+"Page Up" / "Page Down"	Configure Main Screen Size : Page UP = Enlarge, Page Down = Shrink
HK_LCode+"L-Win"(Hold)+"↑ / ↓"	Configure PIP Screen Size : ↑ = Enlarge, ↓ = Shrink
HK_LCode+"L-Win"(Hold)+"← / →"	Configure PIP Screen Transparency : ← = Less Transparent, → = More Transparent
HK_LCode+"F1"	Change between Full Screen Mode & PIP Mode
Image Fine-Tuning	
HK_LCode+"L-Win"(Hold)+"L-Alt"(Hold)+"Del"	Re-Synchronize Video Engine
HK_LCode+"L-Win"(Hold)+"F11"+"↑" / "↓"	Adjust Port 1 Video Compensation
HK_LCode+"L-Win"(Hold)+"F12"+"↑" / "↓"	Adjust Port 2 Video Compensation
User's Presets	
HK_LCode+"L-Win"(Hold)+"L-Shift"(Hold)+"="+"F1"~"F8"	Save Current Settings to User's Preset 1~8
HK_LCode+"L-Win"(Hold)+"L-Shift"(Hold)+"F1"~"F8"	Load User's Preset 1~8

(**Default HK_LCode : "L-Ctrl" + "L-Ctrl"**)

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APPRECIATE
YOUR PURCHASE**

~thank you~

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