

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



P/N: CE-KV0G11-S1 User's Manual Ver. 04-1383C





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## 1. KVM Switch

#### 1.1. Features

- Supports Video Scaler & PIP (Picture-in-Picture) / PBP (Picture-by-Picture) video mixer up to 4K@30Hz (4:4:4).
  - \* Suitable for general displays with no Top-Bottom or Left-Right PBP function.
- Unique full-frame function doesn't sacrifice any display area in PBP mode.
- Image stays unstretched in PBP mode.
- Zero-latency swap between PIP & Full-screen mode.
- Adjustable PIP images' Size / Position / 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-way control methods for easy selection:
  - \* Front Panel Push Buttons
  - \* Hotkey Control
  - \* Roaming Mouse Switch
- Keyboard & Mouse Plug-n-Play, no software & driver Required.
- Support Windows / Linux
- Support 3.5mm audio & HDMI audio connection.

### 1.2. Package Contents

Check the following items in the package.

| Item   | Q′ty |
|--|------|
| 2-Port 4K HDMI KVM Switch with PBP Roaming Mouse & PIP | 1    |
| 12V/1.5A Power Adapter                                 | 1    |
| User's Manual  | 1    |



### 1.3. Specifications

| Video Resolution (Max.) | 3840 x 2160 @30Hz (4:4:4)   |   |  |  |  |
|-------------------------|---|---|--|--|--|
| Commuter                | USB Ports   | 2x USB 3.2 Gen 1 -B                             |  |  |  |
| Computer                | Video Input Ports   | 2x HDMI   |  |  |  |
| Poils                   | 3.5mm Audio Inputs  | 2x Speaker Ports                                |  |  |  |
|                         |   | 1x USB 3.2 Gen 1 - A (Rear)                     |  |  |  |
|                         | USB Ports   | 1x USB 3.2 Gen 1 - A (Front)                    |  |  |  |
| Console Port            |   | 3x USB HID - A (Rear)<br>1x USB HID - A (Front) |  |  |  |
|                         | Video Output Port   | 1x HDMI   |  |  |  |
|                         | 3.5mm Audio Output  | 1x Speaker                                      |  |  |  |
|                         | Mode 1  | Top - Bottom PBP                                |  |  |  |
|                         | Mode 2 - Landscape  | Left - Right PBP                                |  |  |  |
| Output Modes            | Mode 2 - Portrait   | Top - Bottom PBP                                |  |  |  |
|                         | Mode 0  | Full Screen                                     |  |  |  |
|                         | Mode 7  | PIP   |  |  |  |
| Hotkey Control          | Yes   |   |  |  |  |
| Roaming Mouse Switch    | Yes (PBP mode only)   |   |  |  |  |
| Push Button Control     | 1x Push Button (Front)  |   |  |  |  |
| System LED Indicators   | 2x Computer On-Line<br>2x Computer Selected   |   |  |  |  |
| Hot Plug-n-Play         | Yes   |   |  |  |  |
| MAX. Cable Length       | 3m (10ft) for USB   |   |  |  |  |
| Auto Scan               | 3/8/15/30 Secs.   |   |  |  |  |
| Dimensions              | 40 x 176 x 110 mm (H x W x D)   |   |  |  |  |
| Power Supply            | DC 12V  |   |  |  |  |
| Requlation & Safety     | <ul> <li>FCC</li> <li>CE</li> <li>Reach</li> <li>RoHS</li> <li>WEEE</li> <li>CA65 Warning</li> <li>TAA Compliant</li> </ul> |   |  |  |  |



### 1.4. Front Panel

|         | USB HID USB 3.0 Lin           | KVM / PBP / PIP Switch                               |  |  |  |
|---------|-------------------------------|--|--|--|--|
| USB HID | USB HID Console Port          | Connect to keyboard or mouse only.                   |  |  |  |
| USB 3.0 | USB 3.2 Gen 1<br>Console Port | Connect to USB 3.2 Gen 1 device.<br>5Gbps, 5V/900mA. |  |  |  |
| Link    | Dort Status Indicator         | Green: This PC is connected (Power On).              |  |  |  |
| Select  |                               | Red: PC1 or PC2 is selected.                         |  |  |  |
| Switch  | Port Selection Button         | Press to select between PC1 or PC2.                  |  |  |  |

### 1.5. Rear Panel



| Power Jack | DC In                                  | Power adapter input (DC 9V~12V, 1.5A).               |  |  |  |  |
|------------|--|--|--|--|--|--|
|            | USB HID                                | Connect to keyboard & mouse only.                    |  |  |  |  |
| Consol     | HDMI Out                               | Connect to display (Resolution up to 4K@30Hz).       |  |  |  |  |
|            | Audio                                  | Connect to speaker or earphone.                      |  |  |  |  |
|            | HDMI In                                | Connect to PC1, PC2 video port.                      |  |  |  |  |
| PC2, PC1   | USB 3.0 (Type-B)                       | Connect to PC1, PC2 USB 3.2 Gen 1 port.              |  |  |  |  |
|            | Audio                                  | Connect to PC1, PC2 Speaker/Earphone port.           |  |  |  |  |
| USB 3.0    | USB 3.2 Gen 1<br>Console Port (Type-A) | Connect to USB 3.2 Gen 1 device.<br>5Gbps, 5V/900mA. |  |  |  |  |



# 2. Basic Operation

### 2.1. Hotkey Control

The operation of KVM switch is mainly controlled by hotkey sequence. A hotkey command is a short keyboard sequence for selecting among PCs, activating PC scan, etc.

The 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 will generate one high-pitch beep for correct hotkey command or one low-pitch beep for error, so that a wrong key sequence will not be forwarded to the selected PC.

As shown below, use the keys on keyboard to input hotkey sequence, especially the **1~0** number keys and **Left-side Ctrl** key. Note that the keys on the Left-side and Right-side are different commands for the hotkey.



A hotkey command is created by clicking the following keystrokes combination:

#### Left-side Ctrl key (Default):



#### or Scroll Lock key:

| Scroll<br>Lock<br>(Click) | <b>→</b> | Scroll<br>Lock<br>(Click) | <b>→</b> | (Click)                      | or | (Hold)                           |
|---------------------------|----------|---------------------------|----------|------------------------------|----|----------------------------------|
| Click this key,           | then     | click this key,           | then     | click other<br>keystroke(s), | or | click-&-hold other keystroke(s). |



# 3. Display Screen Layout Control

Use hotkey command to control screen layout modes.

- Switching between modes or resolutions might take 10~12 seconds depending on display's response time.
- Switching between screen layout modes might require image fine-tuning. User can save fine-tunned setting to user's presets.

### 3.1. Top-Bottom PBP Layout (Mode 1)

Mode 1 features Vertical PBP mode, The KVM Switch sends proper EDID to both video sources. Mouse Roaming is configured as Top-Bottom & no boundry.



### 3.2. Left-Right PBP Layout (Mode 2 Landscape)

Mode 2 Landscape features Left-Right PBP mode, The KVM switch sends proper EDID to both video sources. Mouse Roaming is configured as Left-Right & no boundry.





### 3.3. Vertical PBP Layout (Mode 2 Portrait)

Mode 2 Portrait features Top-Bottom PBP mode, The KVM switch sends proper EDID to both video sources. Mouse Roaming is configured as Top-Bottom & no boundry.



### 3.4. Full Screen Layout (Mode 0)

Mode 0 features Full Screen mode. The KVM switch works like traditional KVM Switch. User can copy EDID from main output in this mode.

| Α            | (Click) | $(Click) \xrightarrow{(LEFT)} \rightarrow (O) \xrightarrow{(Click)} O (Cl$ |
|--------------|---------|--|
|              | UQF     | U: 3840x2160@30Hz<br>Q: 2560x1440@60Hz<br>F: 1920x1080@60Hz<br>N: 3440x1440@50Hz<br>M: 2560x1080@60Hz  |
| [Up-scaling] | RHGO    | <ul> <li>R: 2560x1440@60Hz input</li></ul>   |

• Mouse Roaming wil be disabled in this mode.



### 3.5. PIP Layout (Mode 7)

Mode 7 features PIP mode. The selected PC's contents are showed on display as PIP image.



• Mouse Roaming wil be disabled in this mode.

### 3.6. Up-scaling Output for Mode 0, Mode 7

The 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 150-meter away and requires long-reach function of HDBaseT Extension (1080p). In such cases, the scaled output can improve image clarity on modern hi-resolution displays.

#### 3.7. PIP Swap Control

Swap between PIP mode and Full Screen mode.



### 3.8. PIP Position Control

Set PIP screen to Top-Right position.





Set PIP screen to Top-Left position.



Set PIP screen to Bottom-Left position.



Set PIP screen to Bottom-Right position.



### 3.9. Main Screen Size Control



### 3.10. PIP Size Control

| [Enlarge] | A | Ctrl<br>(LEFT) →<br>(Click) | Ctrl<br>(LEFT) - | Hold) | (Click) |
|-----------|---|-----------------------------|------------------|-------|---------|
| [Shrink]  | A | Ctrl<br>(LEFT) →<br>(Click) | Ctrl<br>(Click)  | Hold) | (Click) |



### 3.11. PIP Transparency Control



## 4. Other Control

#### 4.1. Port Selection



### 4.2. Audio Switch



#### 4.3. USB 3.2 Gen 1



 Switching the USB 3.2 storage device might take 15 seconds depending on PC system response time.



### 4.4. Change L-Ctrl to R-Ctrl



### 4.5. Change from R-Ctrl to L-Ctrl

| Change<br>from | Ctrl<br>(RIGHT) to |         |         |         |        |         |           |
|----------------|--------------------|---------|---------|---------|--------|---------|-----------|
|                | (Click)            | (Click) | (Click) | (Click) | (Hold) | (Click) | (Release) |

### 4.6. Return to Factory Default Setting

| Default |         |         |        | <b>→</b> (F). | <b>,</b> A . | <b>,</b> C |
|---------|---------|---------|--------|---------------|--------------|------------|
|         | (Click) | (Click) | (Hold) | (Click)       | (Click)      | (Click)    |

### 4.7. Find Mouse Cursor

Move the cursor to the center of the consol screen.  $\underbrace{Ctrl}_{(LEFT)} \rightarrow \underbrace{Ctrl}_{(LEFT)} \rightarrow \underbrace{Caps Lock}_{(Click)}$ 

#### 4.8. Swap the Video Position



#### 4.9. Swap the Video Control



### 4.10. Previous/Next Switch Control





### 5. Mouse Roaming

Use hotkey command to control mouse roaming ONLY in PBP screen layout mode.



(LEFT)

(Click)

(LEFT)

(Click)

(LEFT

(Hold)

(Click)

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Borderless Circulation



# 6. Image Fine-tuning

### 6.1. Image Re-Synchronize

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



### 6.2. Video Compensation Adjustment

In different resolution & layouts (Full Screen/PBP/PIP), there might be slight differences in compensation requirement which might result in image fliker. Adjusting video compensation can greatly improve image quality under such circumstances.



### 6.3. User's Presets

User can restore up to 8 presets.





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SIIG, Inc. offers a 2-year manufacturer warranty with this product. This warranty covers the original purchaser and guarantees the product to be free of any defects in materials or workmanship for two (2) years from the date of purchase of the product.

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