



Models:

SK21PH-4 / DK22PH-4 – Secure 2-Port DP/HDMI KVM Switch, PP 4.0
 SK41PH-4 / DK42PH-4 – Secure 4-Port DP/HDMI KVM Switch, PP 4.0
 SK41PHU-4 / DK42PHU-4 – Secure 4-Port DP/HDMI KVM Switch, PP 4.0 w/fUSB
 DK42PHU-4T – Secure 4-Port DP/HDMI Dual Display KVM Switch w/fUSB, PP 4.0 and TEMPEST
 SK81PH-4 / DK82PH-4 – Secure 8-Port DP/HDMI KVM Switch, PP 4.0
 SK21x-N / DK22x-N – 2-Port DVI-I/HDMI/DP KVM Switch
 SK41x-N / DK42x-N – 4-Port DVI-I/HDMI/DP KVM Switch w/SS USB
 SK81x-N / DK82x-N – 8-Port DVI-I /HDMI/DP KVM Switch w/SS USB
 SK21x- M / DK21x-M – Secure 2-Port DP / HDMI KVM Switch, Israeli Certification
 SK42x-M / DK42x-M – Secure 4-Port DP/ HDMI KVM Switch, Israeli Certification
 SK81HU-M – Secure 8-Port HDMI KVM Switch w/fUSB, Israeli Certification

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INTRODUCTION

KVM Switch

The Keyboard/Video/Mouse (KVM) Switch from High Sec Labs shares video, keyboard, mouse, and USB peripherals across multiple computers. By eliminating the need for purchasing and installing dedicated peripheral sets for each computer, the KVM Switch frees up space and reduces clutter in the workspace.

This guide instructs how to install, configure, and operate a KVM Switch.

Features

- **Control multi-monitor computers:**
Support multi-monitor computers with 2 displays per computer (requires driver installation, currently available only for Windows).
- **High-resolution viewing:**
The KVM Switch can display video at resolutions up to 4K 60Hz for uncompromised quality.

Note: The Israeli Certification Secure models support 4k at 30Hz.

Features Exclusive to Secure Models

- **NIAP Common Criteria PP4.0 compliant:**
HSL's Secure KVM Switch models are certified for the latest NIAP Common Criteria Protection Profile version 4.0 (PP4.0) for Peripheral Sharing Devices (PSD).

Note: The –M models are certified to Israeli standards rather than NIAP.

- **Prevent information leaks:**
Prevent threats derived from sharing and switching of vulnerable, untrusted, or unauthorized peripheral devices. Block peripheral exploits, information leaks, signal transmissions, and computer malware. Prevent hardware and firmware tampering attacks by enforcing multi-layered security mechanisms.
- **Filter USB peripherals:**
Block unauthorized USB devices while allowing secure switching of smart card and biometric authentication devices between computers. Whitelist and blacklist specific USB devices based on VID/PID characteristics.

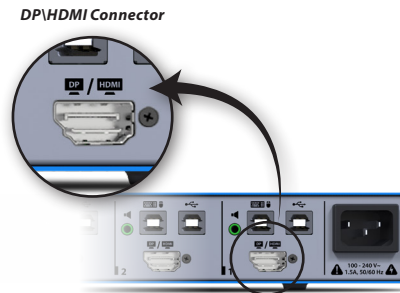
INTRODUCTION

Features Exclusive to Commercial Models

- **USB 3.0 support:**
Transfer data and files between peripherals and computers in USB 3.0 SuperSpeed rates through the KVM Switch's USB 3.0 ports.
- **Microphone Support:**
Natively support microphones on all computers.
- **Copy & Paste:**
Transfer text and files between computers connected to the KVM Switch, with no network connection needed between parties.
- **Express USB charging:**
Rapidly charge USB devices connected to the KVM Switch's high-power USB port.

DP/HDMI Combo Connector

To ensure easy and intuitive interoperability with different sources, all PP4.0 Secure KVM Switch models include a special type of video input connector: the DP/HDMI Combo Connector. The connector supports both HDMI and Display Port Video interfaces and allows connections to either type of cable.



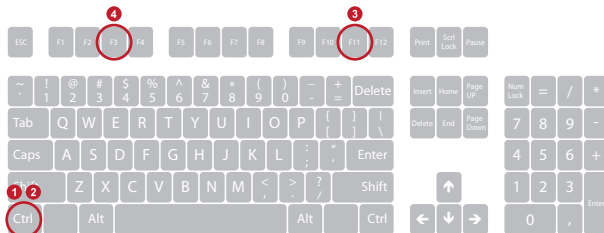
Note: The following Commercial KVM Switch models also use the DP/HDMI Combo Connector:

- | | | |
|------------|------------|------------|
| • SK21PH-N | • SK41PH-N | • SK81PH-N |
| • DK22PH-N | • DK42PH-N | • DK82PH-N |

INTRODUCTION

Keyboard Hotkeys

The interface to operate the KVM Switch uses keyboard hotkeys that can be entered at any time. These hotkeys are based on a QWERTY keyboard layout. For example, to enter the key combination **Ctrl | Ctrl | F11 | F3**, press the keys in the physical locations seen below, regardless of the keyboard layout used:



Keyboard Hotkey Terms

- **|** Separates keys pressed in sequential order. For example, to activate Absolute Mouse Pressed Mode, the key combination is two presses of the **Ctrl** key, one press of the **F11** key, and one press of the **c** key, so the combination is shown as **Ctrl | Ctrl | F11 | c**.
- **[1...]** A range of selectable numbers, such as channels. For example, to select a channel on a 4-port Commercial KVM Switch, enter the combination **Ctrl | Ctrl | [1...4]**.

Notes:

- Always use the left Control key (**LCtrl**) unless otherwise specified.
- Do not use the numeric pad for number keys, unless otherwise specified.
- All hotkey combinations are configured using a QWERTY keyboard. When using a non-QWERTY keyboard, use the key location corresponding to the QWERTY layout. For example, on an AZERTY keyboard where the **a** key is in the location of the **q** key on a QWERTY keyboard, the hotkey **Ctrl | Ctrl | q** would be entered as **Ctrl | Ctrl | a**.

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Secure (PP4.0) KVM Models Specifications

Part Number	SK21PH-4	DK22PH-4	SK41PH-4 / SK41PHU-4	DK42PH-4 / DK42PHU-4	DK42PHU-4T	SK81PH-4	DK82PH-4
No. of Sources	2	2	4	4	4	8	8
Console Ports							
Display Type	1 x DP/HDMI	2 x DP/HDMI	1 x DP/HDMI	2 x DP/HDMI	2 x DP/HDMI	1 x DP/HDMI	2 x DP/HDMI
Max Output Resolution	UHD 4K resolutions up to 3840x2160 @ 60 Hz						
Mouse and Keyboard	USB Type A						
Audio Jack	3.5 mm Jack						
fUSB Port	N/A	N/A	USB Type A (SK41PH-4: n/a)	USB Type A (DK42PH-4: n/a)	USB Type A	N/A	N/A
Remote-Control Port	RJ-14						
Computer Ports							
Display Type	1x Per Source DP/HDMI	2x Per Source DP/HDMI	1x Per Source DP/HDMI	2x Per Source DP/HDMI	1x Per Source DP/HDMI	2x Per Source DP/HDMI	1x Per Source DP/HDMI
Max Resolution	UHD 4K resolutions up to 3840x2160 @ 60 Hz						
Mouse and Keyboard	USB Type B						
Audio Jack	3.5 mm Jack						
fUSB Port	N/A	N/A	USB Type B (SK41PH-4: n/a)	USB Type B (DK42PH-4: n/a)	USB Type B	N/A	N/A
Physical							
Dimensions	177 x 82 x 35 mm (7 x 3.2 x 1.4 in)	177 x 92 x 50 mm (6.9 x 3.6 x 1.9 in)	342 x 148 x 42 mm (13.7 x 5.8 x 1.7 in)	342 x 158 x 57 mm (13.4 x 6.2 x 2.2 in)	342 x 158 x 57 mm (13.4 x 6.2 x 2.2 in)	440 x 192 x 48 mm (17.3 x 7.5 x 1.9 in)	440 x 202 x 62 mm (17.3 x 7.9 x 2.4 in)
Weight	0.52 kg (1.1 lbs)	0.64 kg (1.4 lbs)	1.6 kg (3.2 lbs)	1.95 kg (4.3 lbs)	1.95 kg (4.3 lbs)	2.6 kg (5.7 lbs)	2.9 kg (6.4 lbs)
Power							
Power Requirements	12V DC, 1.5A	12V DC, 1.5A	12V DC, 1.5A	12V DC, 1.5A	12V DC, 1.5A	35W Max	35W Max
AC Input	100 to 240V AC						
Power Type	External	External	External	External	External	Internal	Internal
Certification							
Security	Certified against NIAP Common Criteria PP4.0 PSD Protection Profile (U), TEMPEST Level B Compliant (DK42PHU-T Only)						

INTRODUCTION

Secure (Israeli Certification) KVM Models Specifications

Part Number	SK21P-M / SK21H-M	DK22P-M / DK22H- M	SK41P-M / SK41H-M	DK42P-M / DK42H-M	SK81HU-M	DK82H-M
No. of Sources	2	2	4	4	8	8
Console Ports						
Display Type	1x P: DP 1.2 H: HDMI 1.4	2x P: DP 1.2 H: HDMI 1.4	1x P: DP 1.2 H: HDMI 1.4	2x P: DP 1.2 H: HDMI 1.4	1x HDMI 1.4	2x P: DP 1.2 H: HDMI 1.4
Max Output Resolution	UHD 4K resolutions up to 3840x2160 @ 30 Hz					
Mouse and Keyboard	USB Type A					
Audio Jack	3.5mm Jack					
Computer Ports						
Display Type	1x Per Source P: DP 1.2 H: HDMI 1.4	2x Per Source P: DP 1.2 H: HDMI 1.4	1x Per Source P: DP 1.2 H: HDMI 1.4	2x Per Source P: DP 1.2 H: HDMI 1.4	1x Per Source HDMI 1.4	2x Per Source HDMI 1.4
Max Input Resolution	Supporting UHD 4K resolutions up to 3840x2160 @ 30 Hz					
Mouse and Keyboard	USB Type B					
Audio Jack	3.5mm Jack					
Physical						
Dimensions	177x82x35mm / 7x3.2x1.4in	177x92x50mm / 6.9x3.6x1.9in	342x148x42mm / 13.7x5.8x1.7in	342x158x57mm / 13.4x6.2x2.2in	440x192x48mm / 17.3x7.5x1.9in	440x202x62mm / 17.3x7.9x2.4 in
Weight	0.52kg / 1.1lbs	0.64kg / 1.4lbs	1.6 kg / 3.2lbs	1.95kg / 4.3lbs	2.6kg / 5.7lbs	2.9kg / 6.4lbs
Power						
Power Requirements	12V DC, 1.5A	12V DC, 1.5A	35W Max	35W Max	35W Max	35W Max
AC Input	100 to 240V AC					
Power Type	External	External	Internal	Internal	Internal	Internal

INTRODUCTION

Commercial KVM Models Specifications

Part Number	SK21P-N / SK21H-N / SK21PH-N	DK22P-N / DK22H-N / DK22PH-N	SK41PU-N / SK41HU-N / SK41PHU-N	DK42PU-N / DK42HU-N / DK42PHU-N	SK81PU-N / SK81HU-N / SK81PHU-N	DK82PU-N / DK82HU-N	SK161PHU-N
No. of Sources	2	2	4	4	8	8	16
Console Ports							
Display Type	1x P: DP 1.2 H: HDMI 1.4 PH: DP/HDMI	2x P: DP 1.2 H: HDMI 1.4 PH: DP/HDMI	1x P: DP 1.2 H: HDMI 1.4 PH: DP/HDMI	2x P: DP 1.2 H: HDMI 1.4 PH: DP/HDMI	1x P: DP 1.2 H: HDMI 1.4 PH: DP/HDMI	2x P: DP 1.2 H: HDMI 1.4 PH: DP/HDMI	1x DP/HDMI
Max Output Resolution	UHD 4K resolutions up to 3840x2160 @ 60 Hz						
Mouse and Keyboard	USB Type A						USB Type B
Audio Jack	3.5mm Jack						
Microphone Jack	n/a	n/a	3.5mm Jack	3.5mm Jack	3.5mm Jack	3.5mm Jack	3.5mm Jack
USB 3.0 Port	n/a	n/a	USB Type A	USB Type A	3xUSB Type A	3xUSB Type A	n/a
Remote-Control Port	RJ-14						
Computer Ports							
Display Type	1x Per Source P: DP 1.2 H: HDMI 1.4 PH: DP/HDMI	2x Per Source P: DP 1.2 H: HDMI 1.4 PH: DP/HDMI	1x Per Source P: DP 1.2 H: HDMI 1.4 PH: DP/HDMI	2x Per Source P: DP 1.2 H: HDMI 1.4 PH: DP/HDMI	1x Per Source P: DP 1.2 H: HDMI 1.4 PH: DP/HDMI	2x Per Source P: DP 1.2 H: HDMI 1.4 PH: DP/HDMI	1x Per Source DP/HDMI
Max Input Resolution	UHD 4K resolutions up to 3840x2160 @ 60 Hz						
Mouse and Keyboard	USB Type A						
Audio Jack	3.5mm Jack						
Microphone Jack	n/a	n/a	3.5mm Jack	3.5mm Jack	3.5mm Jack	3.5mm Jack	3.5mm Jack
USB 3.0 Port	n/a	n/a	USB Type B	USB Type B	USB Type B	USB Type B	USB Type B
Physical							
Dimensions	177x82x35mm / 7x3.2x1.4in	177x92x50mm / 6.9x3.6x1.9in	342x148x42mm / 13.7x5.8x1.7in	342x158x57mm / 13.4x6.2x2.2in	440x192x48mm / 17.3x7.5x1.9in	440x202x62mm / 17.3x7.9x2.4 in	439x225x89mm / 17.2x8.8x3.5in
Weight	0.52kg / 1.1lbs	0.64kg / 1.4lbs	1.6 kg / 3.2lbs	1.95kg / 4.3lbs	2.6kg / 5.7lbs	2.9kg / 6.4lbs	4.8kg / 10.8lbs
Power							
Power Requirements	12V DC, 1.5A	12V DC, 1.5A	12V DC, 1.5A	12V DC, 1.5A	35W Max	35W Max	35W Max
AC Input	100 to 240V AC						
Power Type	External	External	External	External	External	External	Internal

INSTALLATION

Before Installation

Before opening the product's sealed packaging, inspect the seal's condition to verify that the product was not accessed or tampered with during delivery. If the packaging seal looks suspicious, contact HSL support and do not use the product.

Tamper-Evident Label

The KVM Switch uses a holographic tamper-evident label to provide visual indications in case of enclosure intrusion attempts. These labels display white dots or the text "VOID" once removed. When opening the product's packaging, inspect the tamper-evident label.

Once the KVM Switch is removed from its packaging materials, carefully inspect the tamper-evident label to verify that the product is properly sealed. If the label is damaged or missing, contact HSL support and do not use the product.



HSL Holographic Tamper-Evident Label

Package Contents

Once the packaging for the KVM Switch is opened, inspect the contents of the package to make sure all components are included.

Secure (PP4.0) Models

Model	Description	Qty
SK21PH-4	Secure Single-Head 2-Port DP/HDMI KVM Switch, PP 4.0	1
	Wall-Mounted 12V Power Supply	1
DK22PH-4	Dual-Head 2-Port DP/HDMI KVM Switch, PP 4.0	1
	Wall-Mounted 12V Power Supply	1
SK41PH-4	Secure Single-Head 4-Port DP/HDMI KVM Switch, PP 4.0	1
	Wall-Mounted 12V Power Supply	1
SK41PHU-4	Secure Single-Head 4-Port DP/HDMI KVM Switch w/fUSB, PP 4.0	1
	Wall-Mounted 12V Power Supply	1
DK42PH-4	Secure Dual-Head 4-Port DP/HDMI KVM Switch, PP 4.0	1
	Wall-Mounted 12V Power Supply	1
DK42PHU-4	Secure Dual-Head 4-Port DP/HDMI KVM Switch w/fUSB, PP 4.0	1
	Wall-Mounted 12V Power Supply	1
DK42PHU-4T	Secure Dual-Head 4-Port DP/HDMI KVM Switch w/fUSB, PP 4.0 and TEMPEST	1
	Wall-Mounted 12V Power Supply	1
SK81PH-4	Secure Single-Head 8-Port DP/HDMI KVM Switch, PP 4.0	1
	1U Rack Mount Kit	1
	C13 Female to C14 Male Power Cable	1
	Adapters Kit- Plugs UK/USA/AU/EU to ERC230/C13	1
DK82PH-4	Secure Dual-Head 8-Port DP/HDMI KVM Switch w/fUSB, PP 4.0	1
	2U Rack Mount Kit	1
	C13 Female to C14 Male Power Cable	1
	Adapters Kit- Plugs UK/USA/AU/EU to ERC230/C13	1

INSTALLATION

Secure (Israeli Certification) Models

Model	Description	Qty
SK21P-M / SK21H-M	Secure Single-Head 2-Port DP/HDMI KVM Switch, Israeli Certification Wall-Mounted 12V Power Supply	1 1
DK22P-M / DK22H-M	Dual-Head 2-Port DP/HDMI KVM Switch, Israeli Certification Wall-Mounted 12V Power Supply	1 1
SK41P-M / SK41H-M	Secure Single-Head 4-Port DP/HDMI KVM Switch, Israeli Certification Wall-Mounted 12V Power Supply	1 1
DK42P-M / DK42H-M	Secure Dual-Head 4-Port DP/HDMI KVM Switch, Israeli Certification Wall-Mounted 12V Power Supply	1 1
SK81HU-M	Secure Single-Head 8-Port HDMI KVM Switch, Israeli Certification 1U Rack Mount Kit C13 Female to Type H Male Power Cable	1 1 1
DK82H-M	Secure Dual-Head 8-Port HDMI KVM Switch, Israeli Certification 2U Rack Mount Kit C13 Female to Type H Male Power Cable	1 1 1

Commercial Models

Model	Description	Qty
SK21P-N / SK21H-N / SK21PH-N	Commercial Single-Head 2-Port DP/HDMI KVM Switch Wall-Mounted 12V Power Supply	1 1
DK22P-N / DK22H-N / DK22H-N	Dual-Head 2-Port DP/HDMI Video KVM Switch Wall-Mounted 12V Power Supply	1 1
SK41PU-N / SK41HU-N / SK41PHU-N	Commercial Single-Head 4-Port DP/HDMI KVM Switch Wall-Mounted 12V Power Supply	1 1
DK42PU-N / DK42HU-N / DK42PHU-N	Commercial Dual-Head 4-Port DP/HDMI KVM Switch Wall-Mounted 12V Power Supply	1 1
SK81PU-N / SK81HU-N / SK81PHU-N	Commercial Single-Head 8-Port DP/HDMI KVM Switch w/SuperSpeed USB 1U Rack Mount Kit Set of International AC Power Cables	1 1 1
DK82PU-N / DK82HU-N	Commercial Dual-Head 8-Port DP/HDMI KVM Switch w/ SuperSpeed USB 2U Rack Mount Kit C13 Female to C14 Male Power Cable	1 1 1
SK161PHU-N	Commercial Single-Head 16-Port DP/HDMI KVM Switch w/ SuperSpeed USB C13 Female to C14 Male Power Cable Adapters Kit- Plugs UK/USA/AU/EU to ERC230/C13 1U & 2U Rack Mount Kit	1 1 1

INSTALLATION

Cable Installation

Connect the Console Port Peripherals

- Connect the console keyboard and mouse to the KVM Switch via the console keyboard/mouse USB A ports. These are shared between all sources.
- Connect the video display(s) to the KVM Switch via the console video port(s).
- Connect the audio output to the KVM Switch via the console 3.5mm audio output jack.
- Connect USB peripheral devices to the KVM Switch via the console USB A ports (if applicable).
- Connect a remote-control unit to the KVM Switch via the console RJ14 port labeled 'RDC.' (optional, not applicable for Israeli Certification models).
- Connect a microphone to the KVM Switch via the console 3.5mm jack (Commercial models only).

Note: The Secure KVM Switch mouse and keyboard USB A ports only support USB HID keyboards and mice. These ports will not support non-standard keyboards, keyboards with USB hubs or other USB-integrated devices, or other USB devices apart from keyboards and mice.

It is possible to integrate an HID device with a USB hub by connecting it to a High Sec Labs FH10NN-4 HID Filter (sold separately), which strips the USB hub traffic and allows only HID traffic to pass through. More information regarding the HID Filter can be found here:

<https://highseclabs.com/product/elock-usb-lockdown/>

Connect the Source Port Peripherals

- Connect the keyboard and mouse cables for each source to the KVM Switch via the corresponding source keyboard/mouse USB B ports.
- Connect the audio for each source to the KVM Switch via the corresponding source 3.5mm audio jack.
- Connect USB peripheral devices for each source to the KVM Switch's corresponding source USB B ports (if applicable).
- Connect a microphone for each source to the KVM Switch via the corresponding source 3.5mm microphone jack (Commercial models only).

INSTALLATION

Power On the KVM Switch

- Power ON all PCs connected to the KVM Switch.
- Connect the power supply and power ON the KVM Switch.

Note: Use only the power supply provided with the KVM Switch. If this power supply fails, contact HSL Support to order a replacement.

OPERATION

Operating the KVM Switch

Channel Selection with Front Panel Buttons

The KVM Switch can select channels by pressing the buttons along the front panel. Upon powering up, the KVM Switch will select Channel 1 as the active channel, with the mouse cursor appearing in the center of the screen. When a button is pressed, the button's LED will stay illuminated to indicate which channel is active.

- **Freeze Audio**

By default, the KVM Switch will play the audio of the active channel. Pressing the Audio Freeze button will keep the audio of the current source even after switching to a different channel. This allows notifications and other audio from one channel to be heard while operating on another.

- **Freeze USB (USB Compatible Models Only)**

By default, USB peripheral devices are only active while their corresponding source PC is active. However, pressing the USB Freeze button will keep the USB peripherals of the current source active even after switching to a different channel.

- **Channel Selection with Keyboard Hotkeys (Commercial and Israeli Certified Models Only)**

In addition to using the front panel buttons, the Commercial and Israeli Certified KVM Switch models can select channels with keyboard shortcuts. To select a channel, enter the key combination **LCtrl | LCtrl | [1...4]**. For example, to select Channel 4, enter **LCtrl | LCtrl | 4**.

Note: These key combinations only accept the number keys on the QWERTY keyboard, not the numeric pad.

OPERATION

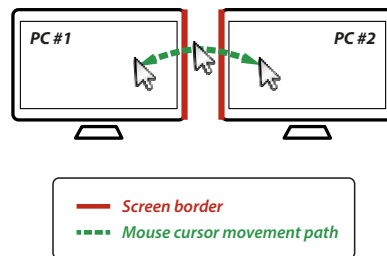
Mouse Navigation Modes

The KVM Switch has two options for navigating with a mouse in a multi-monitor configuration (either a dual-head model, or connected to multiple monitors while in KM Mode) *:

- **Relative Mouse (REL) Mode:** Relative Mouse Mode confines mouse movement to the selected source's channel. While REL Mode is active, switching between channels can be done by using the buttons on the KVM Switch's front panel. REL Mode is the default mode upon booting up, and can also be enabled by entering the key combination **LCtrl | LCtrl | F11 | b**.
- **Absolute Mouse (ABS) Mode:** Absolute Mouse Mode uses Virtual Display Technology (VDT) to switch seamlessly between sources, simply by moving the cursor across the borders between channels. ABS Mode can be enabled by entering **LCtrl | LCtrl | F11 | c** or temporarily enabled from REL Mode by pressing and holding **LCtrl + LShift**.

Absolute Mouse Safety Trigger: By default, hold down the **LCtrl** key to switch between channels while in ABS Mode. This prevents uncontrolled switching between source computers.

* See the section "[Interchangeable KVM to KM Functionality](#)" for further information regarding KM Mode.



OPERATION

Copy and Paste (Commercial Models Only)

HSL's Commercial KVM Switches can transfer text or files between connected computers by using the HSL Copy and Paste Tool. To do this, download and install the latest version of the Tool on all connected computers. The Copy and Paste Tool can be found here: <https://highseclabs.com/solutions/copypaste/>

To enable Copy and Paste, open Notepad on the desired source PC. Then, enter Terminal Mode on the KVM Switch by entering **LCtrl | RCtrl | t**. Once Terminal Mode is opened, enter **LCtrl | RCtrl | q**.

Note: The KVM Switch will not provide any indication that Copy & Paste has been enabled. To confirm it is enabled, open the Device Manager on the source PC and confirm that a new COM port has been created.

This procedure must be performed for each individual source PC on which Copy and Paste is to be enabled. These settings will remain in effect unless they are changed in Terminal Mode or the KVM Switch is reset to its factory defaults.

For further information regarding Terminal Mode, consult the HSL Administrator Guide, which can be found here: https://highseclabs.com/dow_type/admin-guidance/

OPERATION

Interchangeable KVM to KM Functionality

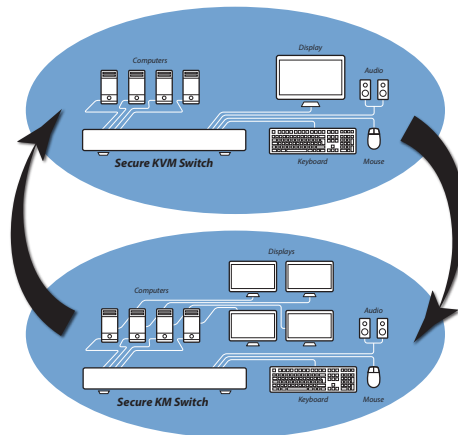
The KVM Switch can function as a Keyboard/Mouse (KM) Switch, sharing a keyboard and mouse between multiple computers that are connected to their own video displays.

To use the KVM Switch with only KM functionality, connect each source computer directly to a separate display while keeping the mouse, keyboard, and USB peripherals connected to the KVM Switch.

Display Presets:

While in KM Mode, the KVM Switch can be configured to a number of preset display configurations. For complete details on these presets and operating in KM Mode, see the KM Switch User Manual, which can be found here:

[HLT31927 HSL UM 2-4-8-Port Secure-KM Switches-PP4_Rev2.0.pdf](#)



Switch between Computers in KM Mode

Press the buttons on the KVM Switch's front panel to change the active channel. KM Mode also allows channel switching with the mouse by enabling ABS Mode.

OPERATION

Reset

To perform a system reset while keeping behavioral characteristics like mouse settings and display presets for KM Mode, disconnect and reconnect the power source.

To perform a complete reset and restore the KVM Switch to its factory default settings, enter the key combination **LCtrl | LCtrl | F11 | r** or enter Terminal Mode by entering **LCtrl | RCtrl | t**, then select the option "Reset to Factory Defaults." This will clear all behavioral characteristics and settings, with the exception of the admin password.

APPENDIX

Keyboard Hotkeys

Action	Keyboard Hotkey
Select Channel (Commercial/Israeli Models Only)	LCtrl LCtrl [1...4]
Enable Relative Mouse Mode	LCtrl LCtrl F11 b
Enable Absolute Mouse Mode	LCtrl LCtrl F11 c
Temporarily Enable Absolute Mouse Mode	LCtrl + LShift (while in REL Mode)
Enter Terminal Mode	LCtrl RCtrl t
Factory Reset	LCtrl LCtrl F11 r

Remote-Control Commands

The buttons on a Remote-Control Unit (RCU) can be programmed to replicate the buttons on the KVM Switch's front panel.

Keepalive events are used by the KVM Switch to periodically communicate its status to the RCU, using the RS-232 protocol. Entering an RS-232 command updates the keepalive event. Because these events are related to the buttons on the KVM Switch's front panel, they are constructed as **#AFP_ALIVE** followed by the command argument corresponding to the selected channel.

For example, to switch to Channel 2 on the KVM Switch, enter the command **#AFP_ALIVE FE**.

Note: While using a Remote-Control Unit, the KVM Switch's front panel buttons are deactivated. This is because the KVM Switch is receiving commands from the RCU instead of the front panel buttons.

To replicate the KVM Switch's front panel buttons using RS-232, enter the **#AFP_ALIVE** command with the following arguments:

Front Panel Button	Channel ID	Front Panel Button	Channel ID
Channel 1	FE	Channel 5	EF
Channel 2	FD	Channel 6	DF
Channel 3	FB	Channel 7	BF
Channel 4	F7	Channel 8	7F

Highseclabs.com

For more information about HSL's solutions, please contact:

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