

4/8 Ports High Security KM Switch


Models:

- K304 – 4 Ports High Security KM Switch
- K304E – 4 Ports High Security KM Switch with DPP
- K308 – 8 Ports High Security KM Switch

QUICK START GUIDE

HSL Secure KM Switch enables users to simultaneously operate four or eight computers, each with its own displays, using a single set of keyboard and mouse. The user can easily switch between computers and displays by simply moving the cursor from one display to another. For proper use, the HSL Secure KM Switch must be configured correctly according to the actual placement of the displays, relative to each other.

This guide instructs how to install and configure the relative location of the displays to match their physical locations.

There are two ways to configure the HSL Secure KM Switch with the actual display setup:

- Select one of the predefined setups
- Create and load a custom configuration file

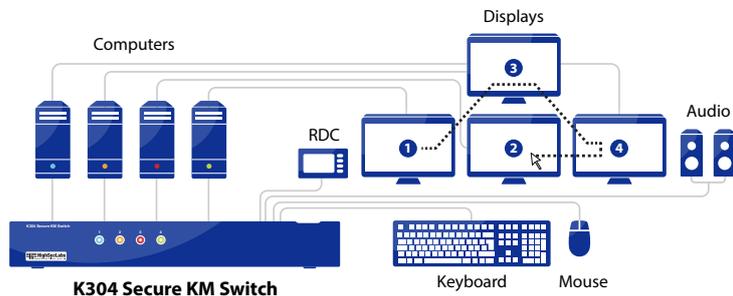
Installation

Before configuring the HSL Secure KM Switch, connect all computers and components.

1. Connect the KM Switch by plugging 'A' to 'B' USB cable to each computer's USB port.
2. If the computer uses audio output (speakers or headphones), connect an audio cable from its audio output port to the corresponding AUDIO input port on the KM Switch.
3. Connect the following items to the console ports of the KM Switch:
 - Keyboard to **Keyboard** (USB) or **PS/2 K**
 - Mouse to **Mouse** (USB) or **PS/2 M**
 - Headphones or Speakers to **Audio**
 - Desktop Controller Unit to **RDC**

Connect the electrical supply:

- 4 Port – 12V 1.5A DC power supply
- 8 Port – 110V or 220V AC power cable



4. Install the KM Driver software on every connected Windows® computer with multiple displays (a computer with more than one monitor connected to it):
 - Download the HSL KM Multi-Display Driver from http://www.highseclabs.com/Resources/Software%20Downloads/HSL_KM_Adminsetup.zip
 - Double-click KMDriver to begin installation.
 - Follow the instructions until the installation is complete.
 - Repeat procedure for every computer with multiple displays.

See the *HSL 4/8 Ports High Security KM Switch User Manual* for complete installation instructions.

Select a Predefined Setup

The easiest way to configure the HSL Secure KM Switch is to load one of the predefined settings available in its non-volatile memory. To select a pre-defined configuration, type on the console keyboard:

Ctrl + Ctrl + F11 + Fx (see numbers in the figure to the right).

Additional settings can be accessed through **Ctrl + Ctrl + F11 + x + y**.

After selecting a new configuration the KM Switch makes a fast clicking sound.

Disconnect and reconnect electrical power to apply this new configuration.

F1 is the default configuration. Four computers with a single display each are arranged as shown.



Click **F2** through **F10** to select a preset configuration as listed in the left column of the table to the right.

For example, press **Ctrl, Ctrl, F11, F5** to set the configuration:



Computers 1 and 2 each with a single display. Computer 3 with two displays.

Note: Only Windows computers can use two multiple displays with the KM.

To select one of the configurations in the other columns:

Press **Ctrl, Ctrl, F11, X, X** (X, X is the number sequence after F11)

For example, press **Ctrl, Ctrl, F11, 3, 0** in sequence to set the configuration:



Keyboard Shortcuts

Key Sequence	Name	Description
CTRL, CTRL, F11, R	Reset to Factory defaults	Device will reset to factory defaults. All settings and configurations will be deleted completely.
CTRL, CTRL, F11, F	Freeze	Disable SCS. Switching between systems will not be possible via mouse movement.
CTRL, CTRL, F11, U	Unfreeze	Enable SCS. Switching between systems will be possible via mouse movement
CTRL, CTRL, F11, +	Increase mouse speed	Mouse speed will be increased.
CTRL, CTRL, F11, -	Decrease mouse speed	Mouse speed will be decreased.
CTRL, CTRL, F11, D, C	Setup mode	In the next boot after pressing this key combination, the device will boot into setup mode allowing him to communicate with configuration utility
CTRL, CTRL, F12	Last Loaded Configuration	Revert to the last externally loaded configuration (configuration loaded via configuration utility).

Advanced Setup

If none of the preset configurations fit your display setup, you can create a custom configuration and load it to the KM, which can be done on a separate computer not connected to the KM Switch.

Creating and loading the custom configuration is a 2-step process:

- On a separate computer, create a custom configuration
- Load the configuration to the KM Switch

Step 1 – Create a Custom Display Configuration

Note: To define a new configuration file, you will need to know the resolution and size of every display, along with the coordinates of every secondary display (on a computer that has more than one display connected to it). See **Display Resolution and Coordinates** for instruction on how to get the resolution and coordinates of each display.

- 1.1 On a separate computer, install the KM Admin Setup, which installs the **KMC Creator** and **KMC Loader** applications. (Link: http://www.highseclabs.com/Resources/Software%20Downloads/HSL_KM_Adminsetup.zip)

- 1.2 Open **KMC Creator**.

- 1.3 Click **New Project** to create a new configuration.

- 1.4 In the **KM Project Setup** dialog, enter the required information, and then click **Next**.

Project Name:	Name of the configuration
Product Model:	HSL product number from the product sticker
Mouse Speed:	Make mouse movements faster or slower
Mouse Acceleration:	Make mouse accelerate faster or slower
Number of Computers:	Total number of computers connected to the KM Switch



- 1.5 Enter a description of the configuration, and click **Next**.

- 1.6 Configure each computer and then click **Next**.



Computer name:	Name of the computer
Number of displays:	Number of displays connected to computer
Display Diag (inch):	Diagonal size of display, in inches
Display Resolution (H/W):	Resolution of the display in pixels. See Display Resolution and Coordinates .
MS W/H Coordinates:	For computers with multiple displays, enter the coordinates of secondary display. See Display Resolution and Coordinates .

- 1.7 Repeat the computer setup for all the connected computers.
- 1.8 Create a stage where all the displays for the connected computers appear.
- 1.9 Align the displays relative to each other as they are physically located.

- 1.10 A yellow *corridor* appears between the displays, where the mouse cursor moves from one display to the next.

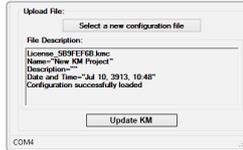


- Click on a yellow corridor to delete it, where the mouse will not move between displays.
- To return the yellow corridor, move the display close to the adjoining display.

- 1.11 Click **Complete Setup** to finish the setup and save the *.kmc* configuration file.

Step 2 – Load a Display Configuration

- 2.1 Connect a standard 'A' - 'A' USB cable (CPN 06580 or similar) to the Console mouse port on the KVM Switch.
- 2.2 Connect the other end of the USB cable to the external computer.
- 2.3 Press **Ctrl, Ctrl, F11, d, c** to change the KM Switch to administration mode.
- 2.4 The KM Switch will start clicking rapidly. Reboot the KM Switch by disconnecting power from the KM and reinserting it back into the KM.
- 2.5 Open the **KMC Loader** application and wait for the message **KM Ready**.
- 2.6 Click **Select a new configuration file** and navigate to the location where **KMC Creator** saved the configuration file.
- 2.7 Click **Update KM** to copy the configuration file to the KM Switch.
- 2.8 The dialog should indicate **KM Ready**, showing the newly loaded configuration.
- 2.9 Turn off the KM Switch and disconnect it from the external configuration computer.
- 2.10 Connect the KM Switch to all the connected computers, as described in **Installation**, and restart. The new configuration should be the default.



Note: If the custom configuration process does not work or issues arise in configuring the KM Switch, contact HSL at +972 - 4 - 9591191

Step 3 – Display Resolution and Coordinates

- 3.1 Connect a keyboard, mouse and display to a computer that will be connected to the KM Switch.

- 3.2 On each computer, open the **Screen Resolution** dialog: **Control Panel > Display > Screen Resolution**.



- 3.3 Note the display resolution in the Resolution field. If the computer is connected to multiple displays, set and note the resolution of the primary (main) and secondary displays.

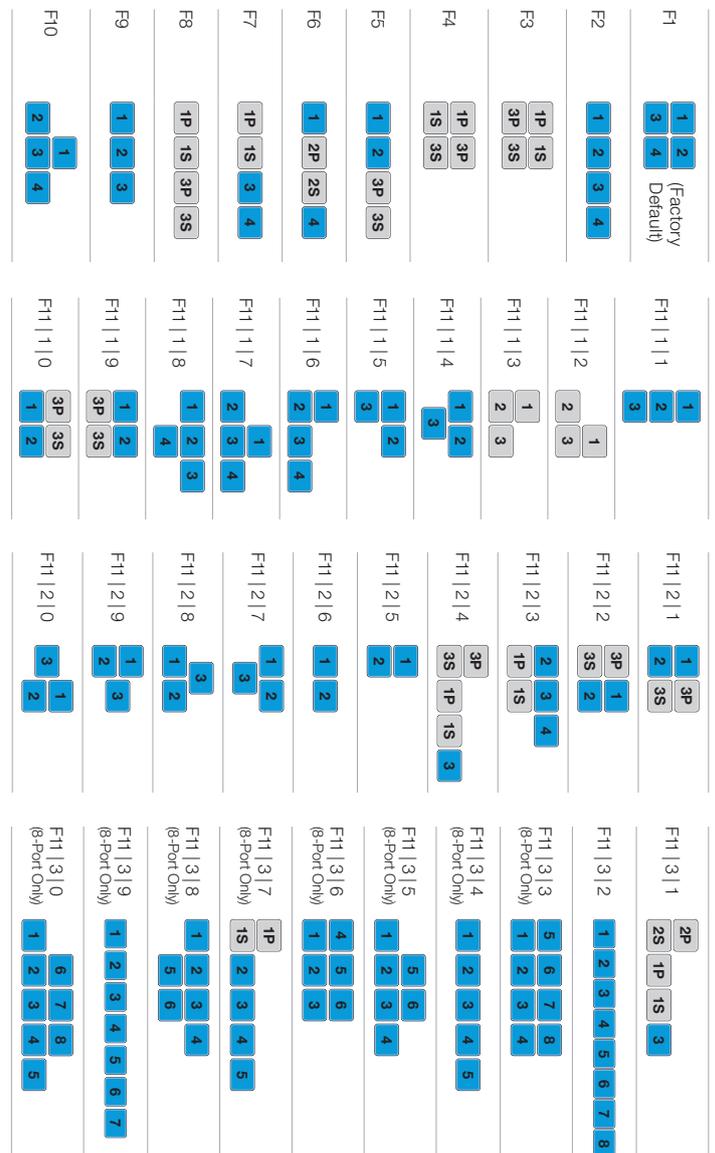
- 3.4 Move the secondary display relative to the primary display, as they are physically located, and note the coordinates.



Note: If the HSL Secure KM Switch does not work properly, or the configuration procedure is unclear or does not work, contact HSL support at +972 - 4 - 9591191

If none of the preset display configurations fits your display setup, go to **Advanced Setup** to create a custom configuration.

Note: In the following table, the blue displays indicate computers with 1 display. The gray displays indicate computers with 2 displays. P is primary display and S is secondary display.



After selecting a display configuration, restart the KM Switch by disconnecting it from electrical power and then restarting.