



Quick Installation Guide

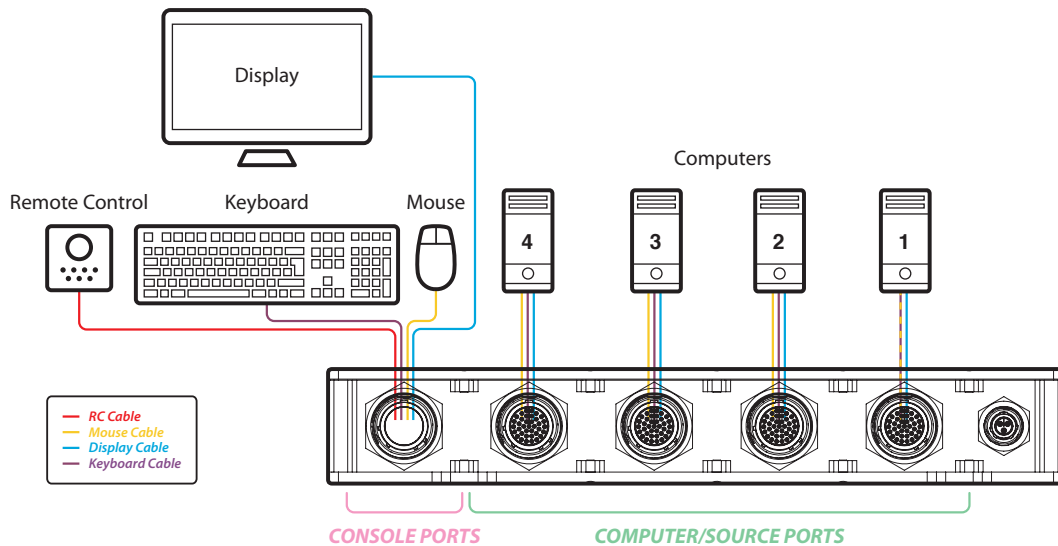
4 Ports Secure Ruggedized DVI-D KVM Switch

Introduction

Thank you for purchasing this HSL Secure KVM Switch. This 4-Ports DVI-D Ruggedized Secure KVM switch is designed to provide military users with superior security in the most difficult environmental conditions. The SK41D-4TR is the only KVM switch in the world that is both NIAP PP 4.0 certified and is Tempest level I compliant while designed to be installed on a military vehicle.

Objectives

- For easier mounting and better situational awareness the SK41D-4TR is equipped with an optional remote control that can be mounted on the vehicle dashboard
- Enclosure tampering sensed by multiple sensors. Battery powered anti-tampering circuitry prevents normal KVM operation.
- For further assistance please refer to HSL website: <http://www.highseclabs.com>



Installation Precautions:

Do not connect this product to computing devices that:

- Are TEMPEST computers
- Include telecommunication equipment
- Include frame grabber video cards
- Include special audio processing cards.

WARNING: Peripherals' Warning - For security reasons, this product does not support wireless keyboards.

NOTE: In order to comply with the product's Common Criteria evaluation and to prevent unauthorized administrative access to the product, the default administrator username and password must be changed prior to first product use.

Installation:

- Verify that all peripherals and computers are turned OFF prior to connecting them to the product.
- Connect the computers and peripherals to the HSL Secure KVM Switch as shown in the above diagram using the appropriate cables.
- Power ON the monitors and the PCs: Make sure that the monitors are turned ON prior to powering ON the Secure KVM Switch.
- Power ON the system: Power ON the HSL KVM Switch by plugging it to the 28V DC connector. By default, after product power-up, the active channel will be computer #1.

Cables

- The Secure Ruggedized KVM Switch Kit includes 4 appropriate PC cables, one Console cable and one power cable.
- The PC cables have a single round 32 PIN connector on the KVM side and on the PC side a video DVI-D and two USB 2.0 (KB/Mouse) connectors.
- The Console cable has a same round 32 PIN connector on the KVM side and video DVI-D and 2 USB KB/Mouse connectors on the Console side. This cable may also have a port for fastening the Remote control unit (WR40-4R) on the console side.

The Active Channel is set by pressing the appropriate channel button on the front panel of the Secure Switch. The button of the active channel is illuminated.

Remote Control

The channel switching can also be done via the Remote Control Unit that connects to the Console port with a special cable. The active channel is set by pressing the remote control single button sequentially until the needed channel LED above the button lights ON.

EDID Acquisition

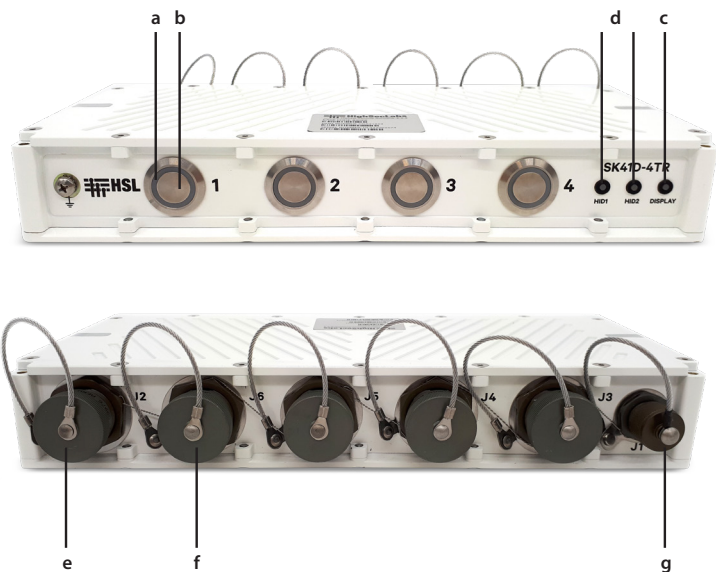
When using the HSL Secure KVM Switch, EDID is acquired from the connected display and duplicated on all channels.

Channels Switching

Control of the HSL KVM Switch is done, primarily, using push buttons on the product front panel.

Ports and LEDs Index:

- Channel LEDs
- Channel Buttons
- EDID Capture LED
- Keyboard/Mouse LEDs
- Console (and RCU) Cable Port
- PC Cables Ports
- Power Input



Remote control - WR40-4R

Front LED Indications:

The HSL Mini-Matrix has several indications on its front and rear panels:

EDID LED:

- Off – no EDID
- Flicker – EDID read in progress
- On – EDID received

Note: EDID is only read in the first few seconds of device boot. The secure switch does not support hot plug or swap of display while working. In every swap of display it is recommended to restart the Switch.

HID (Keyboard, Mouse) LEDs:

- Off – no device detected
- Flicker – device rejected
- On- device approved

Important Notes:

1. Anti-Tampering System: This HSL high security product is equipped with an always-on active anti-tampering system. If mechanical intrusion is detected, the product is permanently disabled and abnormal LED behavior is activated, with all LEDs blinking continuously.
2. Power ON Self-Test Procedure: As the product powers-up, it performs a self-test procedure. In case of self-test failure for any reason, including jammed buttons, the product is inoperable and self-test failure is indicated by abnormal LED behavior.

In the above-mentioned cases, please call Technical Support and avoid using the product. For further information please refer to the product administrator and setup guides.

Safety and Regulatory Statements

Safety Symbols

This One or more of the following symbols may be included in your product documentation and/or on the product.



Instructions: This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the product user manual.



Dangerous Voltage: This symbol is intended to alert the user to the presence of uninsulated dangerous voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



Power On: This symbol indicates the principal on/off switch is in the ON position.



Power Off: This symbol indicates the principal on/off switch is in the OFF position.



Protective Grounding Terminal: This symbol indicates a terminal which must be connected to earth ground prior to making any other connections to the equipment.

Safety Precautions

WARNING: To avoid a potentially fatal shock hazard and possible damage to equipment, please observe the following precautions.

- **Instructions:** Do not disable the power grounding plug. The grounding plug is an important safety feature.
- Plug the power cord into a grounded (earthed) outlet that is easily accessible at all times.
- Disconnect the power from the product by unplugging the power cord from either the electrical outlet or the product. The AC inlet is the main disconnect for removing power to this product. For products that have more than one AC inlet, to remove power completely, all AC line cords must be disconnected.
- This product has no serviceable parts inside the product enclosure. Do not open or remove product cover.

CAUTION: Some HSL products contain a lithium battery. This battery is not a field replaceable item, and replacement should not be attempted by a user. If errors occur when using the product and the battery is suspected, contact HSL Technical Support.

WARNING: For Service Personnel Only - There is a risk of explosion if the battery is replaced with an incorrect type. Dispose of used batteries according to the manufacturer's instructions.

This product is for use with other products that are Listed or Certified by a Nationally Recognized Testing Laboratory (NRTL).

NIAP Protection Profile

This product is certified to the NIAP Protection Profile PSD version 4.0 certification for peripheral sharing switch devices.

Security Vulnerability

If you are aware of a potential security vulnerability while installing this product, contact Technical Support immediately by:

- Web form: www.highseclabs.com/support/case/
- Email: security@highseclabs.com
- Tel: +972-4-9591191/2

WARNING: Unit Enclosure Warning - If the unit's enclosure appears disrupted or if all LEDs flash continuously, remove the product from service immediately and contact Technical Support.

Change Management

For change management tracking, perform a quarterly log check to verify that the RFD was not improperly used to override the current device policy by an unauthorized person.