



*HKS100I - Console*

## WHAT IS SECURE KVMA ISOLATOR?

HSL's relies on its innovative 3rd generation Secure KVM products to develop a unique security isolator device. This new product isolates: USB Keyboard, DVI-I Video, USB Mouse and analog Audio output (KVMA).

This product offers the highest possible separation between the source computer and the peripheral devices. The HKS100I uses uni-directional optical data-diodes to prevent any potential leakage between the source and the peripheral equipment.

### WHO NEEDS SECURE KVMA ISOLATOR?

KVM matrix, Video matrix, shared displays and projects are all vulnerable to cyber-attacks. Sharing peripherals such as displays as well as keyboard and mouse between computers or video sources from different networks is a weakness that can be exploited by attackers. Malicious code and information originating from one network can be transferred via the shared peripherals to a different network.

Secure Meeting or control rooms are often requiring the ability to combine sources having different classification levels into one display solution. For example, projector or a matrix in a meeting room which requires unsupervised guest laptop to be used in presentations or KVM\ Video Matrixes in control rooms combining classified information with internet or television sources.

The HKS100I designed to meet the requirements of organizations that are challenged by the need to provide secret or top-secret network access together with unclassified or internet access.

*HVS100I - Console*



## PRODUCT HIGHLIGHTS

- **Highest security by design**  
Designed by an agency to support isolation of large KVM matrix and conference room equipment.
- **Hardware Based peripheral protection/isolation (HKS100I only)**  
Absolutely no dependency on firmware or software.
- **Unidirectional optical data diodes (HKS100I only)**  
Assuring USB peripherals isolation. Data can flow from devices to host only. No reverse data flow possible by design.
- **All firmware is in ROM (Read Only Memory).**
- **Analog Audio Data Diode**  
Assuring that audio out channel would not be abused to send data back to the computer.
- **Display Plug & Play (EDID) protection**  
Leakage prevention through patented emulated technology. Signalling attacks prevented by design. DDC/EDID fully functional.
- **Common Criteria EAL 4+ pending.**
- **Peripherals security**  
Full USB devices filtering to assure support for keyboard and mouse only.
- **Active anti tampering**  
Always-on active anti-tampering with 10 years battery. Special holographic tampering evident labels.
- **Support for wide range of video standards**  
DVI-I dual-link interface can be used for VGA, DVI-D and HDMI as well.
- **Tamper Evident Label**  
Providing clear visual indication of product was tampered with or opened in any way.



HKS1001 - PC



HVS1001 - PC

## SPECIFICATION

PART NUMBER	HKS1001	HVS1001
<b>Computer Interface Ports</b>	DVI-I Female video input connector. USB Type-B jack for keyboard and mouse. Audio input 3.5 mm stereo jack.	DVI-I Female video input connector. Audio input 3.5 mm stereo jack.
<b>Console Ports</b>	DVI-I Female video output connector. USB Type-A jack for keyboard. USB Type-A jack for mouse. Audio output 3.5 mm stereo jack.	DVI-I Female video output connector. Audio output 3.5 mm stereo jack.
<b>Video Standards Supported</b>	All single-link and Dual-link DVI resolutions up to 2560 x 1600. All VGA resolutions up to 2048x1536 [cable/adaptor required]. HDMI 1.0 support all resolutions up to 1920 x 1200 [cable/converter required]. Unidirectional audio out over HDMI supported.	
<b>Power</b>	DC input 12V / 1A maximum. Special self-locking DC jack. Wall-mounted power supply included. Power input 90-240V AC	
<b>Environmental</b>	Temperature range: Operating - 0°C to 40°C (32°F to 104°F); Storage - -20°C to 60°C (-4°F to 140°F). Humidity: Operating - 20 to 80% non condensing; Storage - 10 to 90% non condensing. Altitude: 0 to 10,000 ft.	
<b>Regulatory Compliance</b>	Safety: UL/cUL60950, EN60 950. EMI/EMC: FCC Class B, CE Mark, EN55022B, VCCI .	
<b>Security Accreditations</b>	Common Criteria EAL 4+ pending.	
<b>Physical Characteristics</b>	Dimensions: 145 (W) x 105 (D) x 28 (H) mm / 5.8 (W) x 4.2 (D) x 1.1 (H) inch Device weight: 0.3 Kg. (0.64 lbs.)	

