HighSecLabs
Highest Security Solutions

PC SIDE

VIDEO IN   KM

HSL GALVANIC ISOLATORS PRODUCT FAMILY

HSL's Video and KVM isolators use broadband high-pass filters to provide complete galvanic isolation of DC and ground currents between two pieces of equipment, while permitting the full bandwidth of HDMI 1.4 and USB 2.0 signal to pass, thus avoiding problems of signal distortion and operator shocks caused by a voltage difference.

High Sec Labs isolators are not only 4KV galvanically isolated but also logically separated and are compliant with the latest NIAP PP 4.0 PSD standard. HSLs secure Isolators are the perfect solution for Medical but also Defense, Government and Military customers.
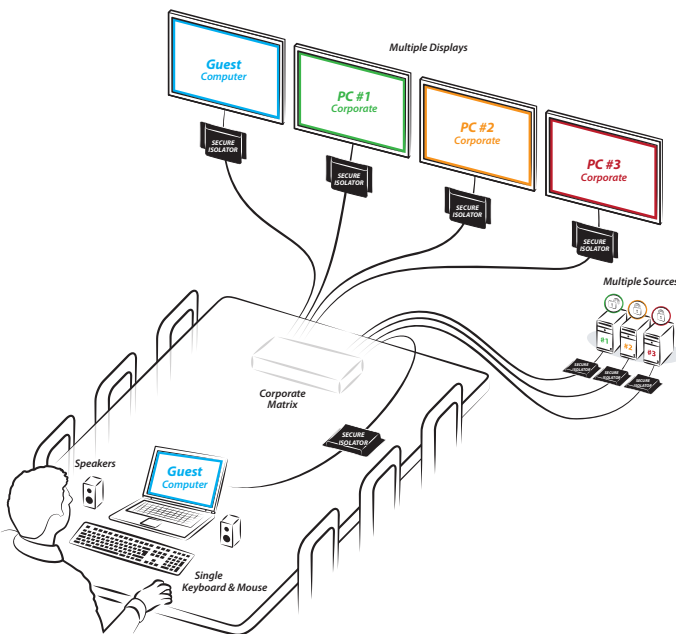
Both the signal and ground paths between equipment are isolated, there is no distortion of the signal.

High Sec Labs unique mounting options and available PSU are making the galvanic isolator family easy to use and the idle solution for many desktop and rack mount applications.

The secure isolator prevents vulnerable peripherals from mediating between compromised and secure computers by ensuring that video, audio and USB data flows in a single direction. By preventing host-to-peripheral direct access the secure isolator eliminates data leakage.

SECURITY FEATURES

- **Unidirectional optical data diodes (KVM units 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).**

- **Display Plug & Play (EDID) protection Leakage prevention through patented emulated technology. Signalling attacks prevented by design.**

Secure Isolator System Diagram

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SPECIFICATION

PART NUMBER	FV11H-MG	FV11H-MGH	FI11H-MG	FI11H-MGH
CONSOLE PORTS				
Displays	1 x HDMI	1 x HDMI	1 x HDMI	1 x HDMI
Max Resolution (Input & Output)	3840x2160 @ 30 Hz	3840x2160 @ 30 Hz	3840x2160 @ 30 Hz	3840x2160 @ 30 Hz
Mouse and Keyboard	N/A	N/A	USB Type A	USB Type A
COMPUTER PORTS				
Display Type	1 x HDMI 1.4	1 x HDMI 1.4	1 x HDMI 1.4	1 x HDMI 1.4
Mouse and Keyboard	N/A	N/A	USB Type B	USB Type B
PHYSICAL				
Dimensions	145 x 105 x 28 mm / 5.8 x 4.2 x 1.1 inches			
Weight	0.3 kg (0.64 lbs)			
POWER				
Power Requirements	DC input 12V/2.5A Maximum			
Power Type	External Power Supply	Medical Grade External PS	External Power Supply	Medical Grade External PS
Galvanic Isolation	3KV	3KV	3KV	3KV
ENVIRONMENTAL				
Operating Temperature	32° to 104° F (0° to 40° C)			
Storage Temperature	-4° to 140° F (-20° to 60° C)			
Humidity	20 to 80% non condensing; Storage – 10 to 90% non condensing			
SOFTWARE				
Supported OS	Windows, Linux, Mac			
CERTIFICATION				
Safety Certification	N/A	IEC60601-1, IEC62304, IEC60601-1-6	N/A	IEC60601-1, IEC62304, IEC60601-1-6
EMC Certification	N/A	IEC 60601-1-2	N/A	IEC 60601-1-2
GENERAL INFO				
Product life-cycle	10 years			
Warranty	2 Years			

FI11H-MG

FV11H-MG