



Product Highlights

- ❏ **Operates between Highest Security Level Gaps**
Designed for safe isolation between *national security* and the *internet*.
- ❏ **Mouse controlled windowing** • Highly-intuitive and easy operation. Superior to any other switched KVM. Cursor based system mode to navigate between windows and resize windows.
- ❏ **Works simultaneously with 4 isolated networks** • User can work in a single window accessing 4 isolated networks having different security levels.
- ❏ **Peripherals security** • Full USB isolation through multiple isolated host emulators and data diodes. Data leakage protected by hardware.
- ❏ **Real-time and real quality** • No quality loss, latency, reduced colours. Fastest digital video processing technology available in any KVM today.
- ❏ **Easy customization** • Administrator mode enables easy customization of channels, colours, cursors, task-bar, background etc.
- ❏ **Controlled Copy-Paste** • Efficient and highly secured solution for Copy-Paste across different networks [Optional].
- ❏ **Highest security by design** • Designed by an agency to support isolation between national security network and the internet (maximum separation).
- ❏ **TEMPEST** • Galvanic isolation of sources using high-speed opto-couplers. Advanced set of anti-tampering features [Optional].

The Ultimate Secured KVM Solution

HSL's KVM Combiner is a unique solution for common security problem. This patented device enables computer users to work simultaneously in up to 4 isolated computers. While most secured KVMs in the market today enables the user to switch between the different environments the KVM Combiner patented technology enables intuitive and seamless work in windows environment.

What is a KVM Combiner?

The KVM Combiner designed to enables the user to natively work in windowing environment across different security levels without exposing the organization to the risks of information leakage. The KVM Combiner device uses advanced video processing to draw a high resolution dynamic "mosaic" of images generated by different computer sources. Built-in video sources isolation forces unidirectional flow of data through the USB and DVI ports. The product was designed and certified National Security agencies. It is the only product available in the market today that truly resolves (in hardware) the challenge of users working simultaneously in multiple networks having different security levels.



K400 KVM Combiner Specification

Input Ports	<ul style="list-style-type: none"> ▪ 4 input ports to connect various hosts (PCs, thin-clients, docking stations) ▪ 4 x DVI-D Female connectors, 4 x 3ft DVI-D to DVI-D cables included ▪ 4 x USB Type-B jacks, 4 x 3ft USB Type-B to USB Type-A cables included ▪ 4 x Audio out 3.5 mm stereo jacks [Optional] ▪ Galvanic ports isolation through opto-isolators and isolated power supplies [Optional] ▪ Plug & Play DDC support - 4 channels identified as standard Dell displays
Output ports (to display, keyboard and mouse)	<ul style="list-style-type: none"> ▪ 1 set of output ports to display, keyboard, mouse ▪ DVI-D display jack ▪ PS/2 keyboard jack (DIN-5) ▪ PS/2 mouse jack (DIN-5) ▪ 2 x USB Type-A jacks ▪ Audio out 3.5 mm stereo jack ▪ Channels isolation – optical data-diode and 4 separate host emulators
User Functions	<ul style="list-style-type: none"> ▪ Windows can be moved and resized ▪ Toggling between normal mode and system modes by mouse side keys click (5 keys mouse) ▪ Toggling between normal mode and system modes by mouse side keys click (5 keys mouse) ▪ Cascading key arranges all 4 windows one on top of the other ▪ Tile key arranges all 4 windows in a mosaic ▪ Help key presents basic usage guidance ▪ Vertical and horizontal scroll bars ▪ Minimize window to task-bar ▪ Colored Task-bar and window border indicating channel ▪ Mouse wheel cyclic toggling between active windows in system mode ▪ Double click to maximize window ▪ Legacy mode – toggling between windows by Control + Func. keys [Optional] ▪ 3 User defined preset keys to save or load user settings
Administrator settings	<ul style="list-style-type: none"> ▪ Access secured by a key-lock ▪ 4 Selectable system cursor pointers ▪ 6 Selectable window border widths ▪ 16 Selectable window border colors

	<ul style="list-style-type: none"> ▪ 2 Selectable task-bar sizes ▪ 6 Selectable video output resolutions ▪ Customer defined background bitmap [Optional]
Output video modes supported	<ul style="list-style-type: none"> ▪ 1024 x 768 (4:3) ▪ 1280 x 1024 (4:3) ▪ 1680 x 1050 (16:10) ▪ 1920 x 1080 (16:9) ▪ 1920 x 1200 (16:10)
Power	<ul style="list-style-type: none"> ▪ DC input 5V / 3A maximum ▪ Rocker type power switch ▪ Wall-mounted power supply included 90-240V AC, DC to 400 Hz
Physical Characteristics	<ul style="list-style-type: none"> ▪ Dimensions: 80(W)x158(D)x34(H) mm / 3.15(W)x6.22(D)x1.34(H) inch ▪ Device weight: 1 Kg. (2.2 lbs.) ▪ Shipping Weight: 5.85 Kg. (12.9 lbs.)
Environmental	<ul style="list-style-type: none"> ▪ 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 20,000 ft ▪ Acoustic emissions 0dB
Regulatory Compliance	<ul style="list-style-type: none"> ▪ Safety: UL/cUL60950, EN60 950 ▪ EMI/EMC: FCC Class B, CE Mark, EN55022B, VCCI ▪ ROHS
Security Accreditations	<ul style="list-style-type: none"> ▪ TEMPEST Level 1 [Optional]
Warranty	3 years

- Specifications are subjected to change without prior notice
- Multiple patents pending