



Product Highlights

- 🔍 **Highest security by design** • designed by an agency to support isolation between national security networks. Common Criteria EAL 4+ approved (pending). Derivative of a TEMPEST product used in NATO nuclear submarines.
- 🔍 **Low cost** • Lowest cost certified Secure KVM in the market. Although this product is 3rd generation secure KVM it is cheaper than most 2nd generation products in the market.
- 🔍 **Hardware Based peripheral protection/isolation** • absolutely no dependency on firmware or software. All firmware is in ROM (Read Only Memory). No keyboard buffering or memory. More than 60dB isolation between channels.
- 🔍 **Unidirectional optical data diodes** • assuring USB peripherals isolation. Data can flow from devices to host only. No reverse data flow possible by design.
- 🔍 **Smallest size** • The K202 product is by far the smallest secure KVM switch in the market today.
- 🔍 **Display Plug & Play (DDC) protection** • leakage prevention through patented emulated technology. Signalling attacks prevented by design. DDC/EDID fully functional.
- 🔍 **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.

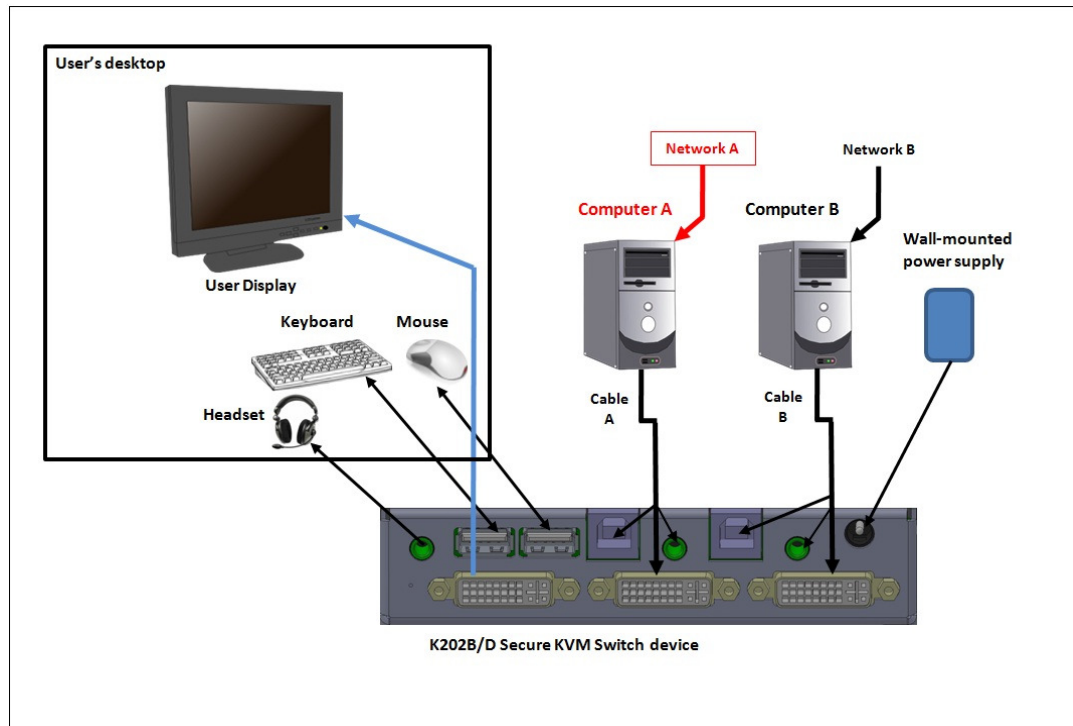
The Ultimate Secure KVM Solution

KVM becoming a target for isolated networks attacks. Second-Generation Secure KVMs have documented vulnerabilities that may cause data leakages between hosts having different security levels.

HSL's Secure KVM is the industry's first 3rd Generation Secure KVM. This product offers the highest possible separation between two connected computers at the smallest size. The K202 Secure KVM 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. The K20x series KVM uses uni-directional optical data-diodes to prevent any potential leakage between the highly-isolated peripheral channels. This KVM can also be used to securely filter and lock USB ports preventing data export / import through mass-storage devices by hardware. The K202 is offered in two models – the K202D that supports DVI-D video and the K202B that supports DVI-I (and VGA) legacy video.

Patented DDC emulation technology enables safe operation with display Plug and Play support.

Product passed extensive security evaluation through all forms of known KVM attacks.



K202B/D Typical system diagram

K202B/K202D Specification

Host Computer Input Ports	<ul style="list-style-type: none"> Two input ports from host computers having: <ul style="list-style-type: none"> - 2 x DVI-I Female connectors for video [K202B] or DVI-D [K202D] - 1 x USB Type-B connector for keyboard and mouse - 1 x Audio input 3.5 mm stereo jack Monitor Plug & Play DDC support through emulation to prevent DDC leakage
Console Ports	<ul style="list-style-type: none"> One set of output ports for display, keyboard, mouse, having: <ul style="list-style-type: none"> - 1 x DVI-I Female connector [K202B] or DVI-D [K202D] - 2 x USB Type-A jacks for keyboard and mouse - 1 x Audio output 3.5 mm stereo jack Channels isolation – optical data-diode and two separate host emulators
Management	<ul style="list-style-type: none"> Channel select push-buttons and status LED's Keyboard hotkeys [optional – may be disabled]
Video modes supported	<ul style="list-style-type: none"> Both models supports all single-link DVI resolutions up to 1920 x 1200 K202B supports all VGA resolutions up to 2048x1536 VGA output is usable only if all inputs and output are VGA and requires proper cables and DVI-I to VGA adapter.

Security Functions	<ul style="list-style-type: none"> ▪ USB ports supporting only keyboard and mouse through host emulation and strong filtering. ▪ Optical Data Diode assures unidirectional flow from devices to computers. ▪ Firmware change can not cause leakage between channels or data export. ▪ Isolated power supplies for each device emulator. ▪ Firmware resides on ROM. ▪ Display EDID is emulated and highly-isolated to prevent signalling leakages. ▪ Battery powered anti-tampering system to disable product in case of mechanical intrusion. ▪ Special holographic Temper Evident Labels.
Power	<ul style="list-style-type: none"> ▪ DC input 12V / 1A maximum ▪ Wall-mounted power supply included. Power input 90-240V AC
Peripheral security	<ul style="list-style-type: none"> ▪ USB ports supporting only keyboard and mouse through host emulation ▪ Data-diode assures USB unidirectional flow from devices to host ▪ Firmware change can not cause leakage between channels or data export
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 10,000 ft
Regulatory Compliance	<ul style="list-style-type: none"> ▪ Safety: UL/cUL60950, EN60 950 ▪ EMI/EMC: FCC Class B, CE Mark, EN55022B, VCCI
Security Accreditations	<ul style="list-style-type: none"> ▪ Common Criteria EAL 4+ (currently in evaluation) ▪ Complies with NIAP Peripheral Sharing Switch (PSS) For Human Interface Devices Ver 2.1
Physical Characteristics	<ul style="list-style-type: none"> ▪ Dimensions: 135(W) x 57 (D) x 33 (H) mm / 5.4 (W) x 2.2 (D) x 1.3 (H) inch ▪ Device weight: 0.75 Kg. (1.6 lbs.) ▪ Shipping Weight: 0.9 Kg (2 lbs) without cables
Warranty, Reliability	<ul style="list-style-type: none"> ▪ 2 years limited warranty. This limited warranty covers 100% of parts and workmanship on any required repairs. For details see HSL web-site: www.highseclabs.com/Warranty.html ▪ Optional extended warranty for up to 5 additional years ▪ Product design life-cycle 10 years

- Specifications are subjected to change without prior notice

How to Order

KVM Models

Description	Part Number
K202B - 2 Ports High Security KVM, USB keyboard and mouse, DVI-I and VGA video, Active anti-tampering, Top panel push-buttons, Small form-factor	CPN06046 [Europe] CPN06047 [UK] CPN06048 [US, Canada]
K202D - 2 Ports High Security KVM, USB keyboard and mouse, DVI-D single-link, Active anti-tampering, Top panel push-buttons, Small form-factor	CPN06049 [Europe] CPN06050 [UK] CPN06051 [US, Canada]

Cables

Description	Part Number
KVM Cable short (1.8 m), DVI-D to DVI-D Single-Link, USB, Black	CPN05485
KVM Cable short (1.8 m), DVI-A to VGA, USB, Black	CPN05489
KVM Smart-Cable VGA PC to DVI KVM converter cable with USB type A to USB type B, 6ft (1.8 m), black	CPN06011
KVM Smart-Cable DVI-D USB PC to VGA USB KVM converter cable, 6ft (1.8 m), black	CPN06010

Accessories and spare parts

Description	Part Number
Spare power supply, wall-mounted, 12V, 1.0A, US	CPN06174
Spare power supply, wall-mounted, 12V, 1.0A, EU	CPN06175
Spare power supply, wall-mounted, 12V, 1.0A, UK	CPN06176

Services

Description	Part Number
K2xx One year Standard warranty and support extension (3rd to 7th year) per S/N	CSV05973
K2xx One year Premium warranty and 24/7 support per S/N	CSV05974

