



## SECURE KVM COMBINER

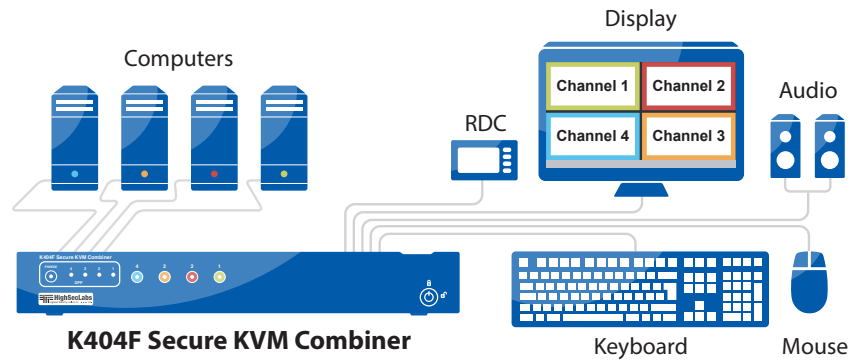
**Demanding environments requiring intensive simultaneous interaction with multiple sources becomes an easy task with HSL KVM Combiner, being a perfect fit for heavy-duty users challenged by frequent switching between isolated networks.**

HSL KVM Combiner provides a comfortable means of interaction with multiple computers at different security levels improving usability and situational awareness. The four isolated sources are integrated into a single or dual large display.

Combiner's advanced video technology supports integration of up to four full HD sources onto large HD display via real time, continuous scaling of each source without data loss of latency effects.

In contrast to standard Secure KVMs that allow users to work on a single source at a time, the HSL Combiner is the only product designed for secure, simultaneous interaction with multiple sources at different security levels.

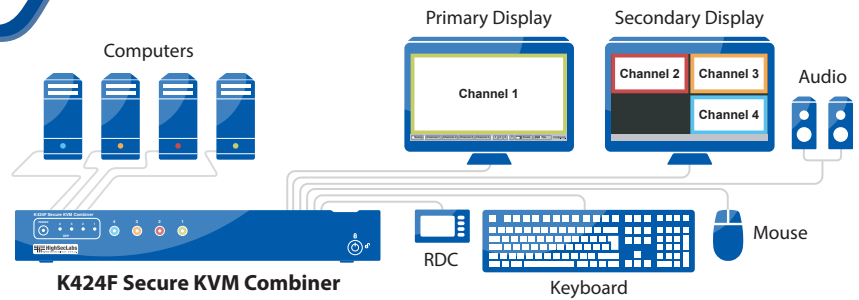
The HSL Combiner security features, such as true data path isolation, and compliance with Common Criteria EAL4+ make it suitable for high security markets, such as government and military as well as installations with limited space, such as mobile command & control vehicles.



## PRODUCT HIGHLIGHTS

- Advanced video support**  
 Supports HD video on DVI-D and DisplayPort 1.2 displays
- Heavy-duty user convenience**  
 Work constantly and monitor multiple channels; no switching of channels required
- Advanced viewing technology**  
 View in real-time up to four networks simultaneously through a pixel-by-pixel video image; no quality loss, latency, reduced colors, dropped frames or artifacts
- Advanced scaling function**  
 Allowing user scaling of video source x 1/2 and x 1/4 to assure optimized monitoring and working experience
- Tile and Scale modes**  
 Tile mode allows to view all source windows in equal size scaled by 50%. Scale mode allows users to focus on one main source while viewing the other sources scaled by a 25%
- Biometric/Smart-Card reader support**  
 Special secured port (DPP) for smart-card/biometric reader with patented Freeze function to support user authentication across multiple isolated networks
- Future-proof**  
 Supports latest keyboards, mice and all Operating Systems
- Highest security by design**  
 Common Criteria EAL 4+ approved, compatible with NIAP security requirements
- Hardware-based peripherals isolation**  
 No dependency on firmware or software; all firmware on ROM (Read Only Memory); no keyboard buffering or memory
- Unidirectional Optical Data Diodes**  
 Assuring USB peripherals isolation; data can flow from devices to host only
- Peripherals Security**  
 Full USB device filtering to assure support for keyboard and mouse only
- Active anti tampering system:**  
 Always-on with 10 years battery; holographic tampering evident labels

# SECURE KVM COMBINER SPECIFICATION



PART NUMBER	K404F	K424F	K404D
<b>No. of Computers</b>	4	4	4
<b>CONSOLE PORTS (DEVICES)</b>			
<b>Console Mouse and Keyboard Ports</b>	USB Type A female connector or PS/2 Mini-DIN 6 pin female connector (1 each)		
<b>Console Display Ports</b>	1 DVI-D single-link female connector Resolution up to 1920x1200	2 DVI-D single-link female connector Resolution up to 1920x1200	1 DisplayPort female connector Resolution up to 1920x1200
<b>Console Audio Jack</b>	3.5mm Female		
<b>Console CAC Input</b>	USB Type A		
<b>COMPUTER PORTS</b>			
<b>Computer Display Ports</b>	1 DVI-D single-link female connector.		
<b>Computer Audio Jack</b>	3.5mm Female		
<b>Computer Keyboard/Mouse Ports</b>	USB Type B		
<b>Computer CAC Ports</b>	USB Type B		
<b>PHYSICAL</b>			
<b>Dimensions</b>	320(W) x 130 (D) x 52 (H) mm / 12.8 (W) x 5.2 (D) x 2 (H) inch		
<b>Weight</b>	1.53 Kg. (3.4 lbs.)		
<b>POWER</b>			
<b>Power Requirements</b>	12V DC, 5A (max) power adapter with center-pin-positive polarity		
<b>AC Input</b>	100 to 240VAC		
<b>Power Type</b>	External		
<b>ENVIRONMENTAL</b>			
<b>Operating Temperature</b>	32° to 104° F (0° to 40° C)		
<b>Storage Temperature</b>	-4° to 140° F (-20° to 60° C)		
<b>Humidity</b>	0-80% RH, non-condensing		
<b>CERTIFICATION</b>			
<b>Security Accreditation</b>	Common Criteria EAL 4+ ALC_FLR.3		
<b>GENERAL INFORMATION</b>			
<b>Made In</b>	Israel		
<b>Product life-cycle</b>	10 years		
<b>Warranty</b>	2 Years		

## OUTPUT DISPLAY RESOLUTIONS SUPPORTED

RESOLUTION	K404F	K424F	K404D
1024x768 (4:3)	✓	✓	✓
1280x800 (8:5)	✓	✓	✓
1280x1024 (4:3)	✓	✓	✓
1680x1050 (8:5)	✓	✓	✓
1920x1080 (16:9)	✓	✓	✓
1920x1200 (8:5)	✓	✓	✓
2x1920x1080 (16:9)		✓	
2x1920x1200 (8:5)		✓	
2560 x 1440 (16:9)			✓
2560 x 1600 (8:5)			✓

*K424F Back Panel*

*K404F Back Panel*

*K404D Back Panel*
