KRAMER

HSA210
HighSecLabs Secure Headphone Diode

HSA210 is the world's first anti-eavesdropping device from headphones connected to your computer. It secures the stereo analog audio output stream to prevent all known methods of audio output channel attacks for remote eavesdropping

FEATURES

Secure Headphone Diode - Prevents audio stream from headphones from flowing back to the computer audio jack. The only effective means to protect from remote eavesdropping through connected headphones configured as microphones

Crystal Clear Audio Quality - Active diode circuitry assures that audio passing in the right direction is not distorted or attenuated. Security features do not negatively affect audio quality

Malicious Connection Detection - Detects and prevents connection attempts to the microphone by the user or by audio CODEC driver manipulation

Active Anti-Tampering - Battery backed active anti-tampering system prevents in-transit tampering

No USB Interface

Prevents Unsecured USB Audio

Highest Security by Design - Patented design offers the world's first and only audio security device that prevents malicious audio attacks

Easy Integration - Supports a wide range of HishSecLabs security products, including secure KVM switches, matrices, secure KMs, and more

Supports 4-64 Ohm Headsets

TECHNICAL SPECIFICATIONS

OUTPUTS:	1 3.5mm mini jack for unbalanced stereo audio, 1 USB-A connector for power
COMPUTER PORTS:	1 3.5mm mini plug for unbalanced stereo audio or line output, 1 USB-B connector
CONTROLS:	Self-test push-button with LED for self-test (green) and tampering (red) indications
SECURITY FEATURES:	Independent/isolated micro-controller, analog audio data diode circuitry to prevent using headphones as dynamic microphones, detects connection of plug inserted into a microphone or headphones jack with changed role, holographic tampering-evident labels, active battery backed anti-tampering system to prevent physical tampering
AUDIO FREQUENCY RESPONSE:	100-20,000Hz
DIODE REVERSE-FLOW ATTENUATION:	32 ± 4dB
S/N RATIO:	More than 52dB
SUPPORTED AUDIO CARDS:	All AC'97 CODECs on-board or cards, HD audio CODECs. Professional PCI cards and multi-channel sound cards are not supported
POWER REQUIREMENTS:	5V DC, 0.2A max
OPERATING TEMPERATURE:	0° to +40°C (32° to 104°F)
STORAGE TEMPERATURE:	-20° to +60°C (-4° to 140°F)
OPERATING HUMIDITY:	20% to 80%, RH non-condensing
STORAGE HUMIDITY:	10% to 90%, RH non-condensing
ALTITUDE:	0 to 10,000 ft
SECURITY CERTIFICATION:	CE, UL and cUL, Safety BSEN60950 / EN60950
PRODUCT LIFE-CYCLE:	10 years