



# SECURE MEDIA DIODES WITH MIC/CAMERA SUPPORT

High Sec Labs' Media Diodes mitigate the risks of eavesdropping when using peripheral audio and video devices.

Attackers can take control of a media device to listen in on classified or sensitive conversations in secure rooms or transfer data from secure to unsecured networks. HSL's Media Diodes with Mic and Camera Support, part of the

larger family of Media Diode products, connect between a source (typically a PC) and a peripheral media device. The Media Diode prevents attackers from exploiting media-related vulnerabilities for data leakage.

## KEY FEATURES

- **Unidirectional Flow:**

The Media Diode enforces unidirectional flow of audio or video signals from the source. This prevents hackers from manipulating a speaker/headphone to function as a microphone for picking up surrounding conversations.

- **Peripheral Device Support:**

HSL's Media Diodes offer support for microphones and webcams, providing channels that can be opened and closed with the press of a button.

**Note:** Enabling a microphone or webcam is done only via push-button control, and it does not change the unidirectional flow restriction in any way.

- **Low-Pass Filter:**

Audio passing through a Media Diode goes through a low-pass filter that restricts the audio frequencies to the range compatible with the human ear. This prevents hackers from attacking by broadcasting high-frequency signals to an external hacking device.

- **USB Cutoff:**

The USB channels for microphone, speaker, and webcam are closed by default, cutting off the connection between the source and peripherals unless the channels are opened manually.

- **Push-Button Control:**

The Media Diode regulates the media flow between the computer source and peripherals and can be configured to adjust how long a connection stays open. These buttons use a bi-color (red and green) LED to show ON/OFF status, and flicker before a disconnection. The Media Diode also detects a press-and-release as a single event, to prevent keeping the connection open by holding the button down nonstop.



## OPERATIONAL HIGHLIGHTS

- **Prevents Hackers from Taking Advantage of Audio Data Leakage:**

The Media Diode blocks listening in to surrounding conversations by forcing unidirectional flow that prevents repurposing speakers as a microphone. The Diode operates on a timer, automatically closing any open channels after a set time to prevent listening after a conversation has terminated.

- **Small Size:**

The 85mm X 65mm X 34mm unit takes up almost no room on the desktop.

- **Easy to Install and Operate:**

The Media Diodes quickly connect to the host PC and audio/video devices and can be operated with the press of a button.

- **Custom Settings:**

The Media Diodes can be configured with a software tool that adjusts settings such as how long the audio and video channels remain open, how many times the allotted time can be extended, and whether a warning sound indicates the channels are about to close.

## SPECIFICATION

MODEL NUMBER	FA10AM-4	FA10BM-4	FA10AC-4	FA10BC-4
<b>FEATURES</b>				
<b>Input Interface (Host)</b>	Analog	USB	Analog	USB
<b>Output Interface</b>	Analog	Analog	Analog	Analog
<b>Microphone Support</b>	✓	✓	✓	✓
<b>Webcam Support</b>	✗	✗	✓	✓
<b>PHYSICAL</b>				
<b>Dimensions</b>	85x 65x34mm / 3.3x2.6 x1.3in			
<b>Weight</b>	0.185kg / 0.411lb			
<b>ENVIRONMENTAL</b>				
<b>Operating Temperature</b>	0°C to 40°C / 32°F to 104°F			
<b>Storage Temperature</b>	-20°C to 60°C / -4°F to 140°F			
<b>Humidity</b>	Operating - 20% to 80% non-condensing; Storage - 10% to 90% non-condensing			
<b>Altitude</b>	0 to 10,000ft			
<b>GENERAL INFO</b>				
<b>Manufactured</b>	BAA & TAA Compliant			
<b>Product Life-Cycle</b>	10 Years			
<b>Product Warranty</b>	2 Years			

## ORDERING DETAILS

Model	P/N	Description	Qty
FA10AM-4	CPN17330	Secure Media Diode w/ Microphone Support, Analog-to-Analog	1
		3.5 Audio Cable Y Splitter, 1 Female, 2 Male	1
FA10BM-4	CPN17329	Secure Media Diode w/ Microphone Support, USB-to-Analog	1
		3.5 Audio Cable Y Splitter, 1 Female, 2 Male	1
FA10AC-4	CPN16106	Secure Media Diode w/ Microphone and Webcam Support, Analog-to-Analog	1
		3.5 Audio Cable Y Splitter, 1 Female, 2 Male	1
FA10BC-4	CPN22569	Secure Media Diode w/ Microphone and Webcam Support, USB-to-Analog	1
		3.5 Audio Cable Y Splitter, 1 Female, 2 Male	1



**FA10AM-4**

Media Diode w/ Microphone Support, Analog-to-Analog



**FA10AC-4**

Media Diode w/ Microphone and Webcam Support, Analog-to-Analog



**FA10BC-4**

Media Diode w/ Microphone and Webcam Support, USB-to-Analog



**FA10BM-4**

Media Diode w/ Microphone Support, USB-to-Analog