



WEBCAM DIODE – FCA10BB-4

Eliminate eavesdropping and data breach threats when using a peripheral webcam, even when shared among multiple computers.

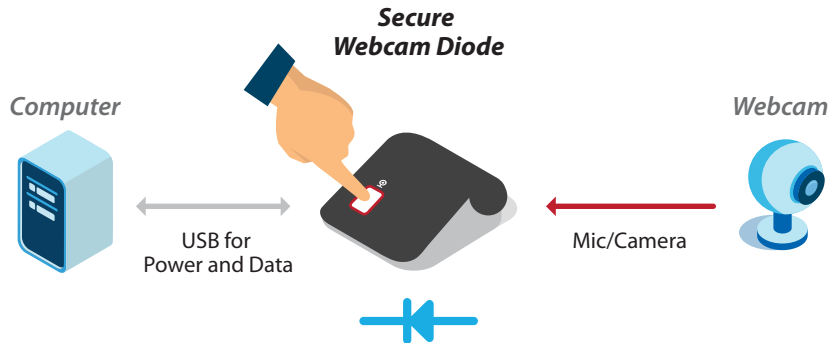
Threats of Using Webcams

- Webcams can be exploited to eavesdrop on classified and sensitive conversations, even in secure rooms.
- Webcam vulnerabilities can be exploited to transfer data between computers and networks.

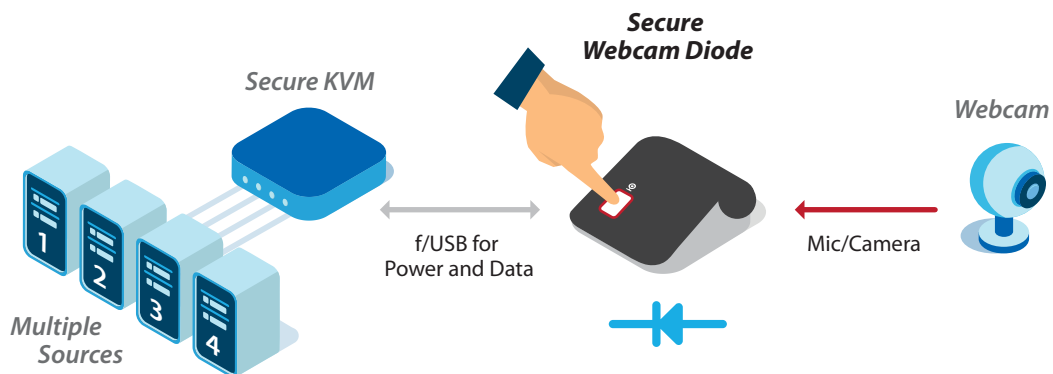
Webcam Diode Key Features

- Normally closed operation prevents inadvertent transmission of audio and video.
- A button must be pushed and released to allow the transmission of audio and video.
- Open transmission state is time limited. A user's active intervention by pressing and releasing the button is required to extend the transmission time.

- Clear visual indication of the open/closed state of the Webcam Diode using red and green indicator lights, along with a blinking indication when the allotted transmission time is about to expire.
- Data diodes enforce unidirectional data flow, preventing the exchange of data between computers.
- Webcam command channel is unidirectional and filtered, preventing the exchange of sensitive data encapsulated in command transmissions.
- Sophisticated emulation technology for the camera and microphone ensure there is never a direct connection between the webcam and the host.
- Suitable for use in single-computer and multiple-computer scenarios.



The Webcam Diode is installed between the webcam and the USB port on the computer.



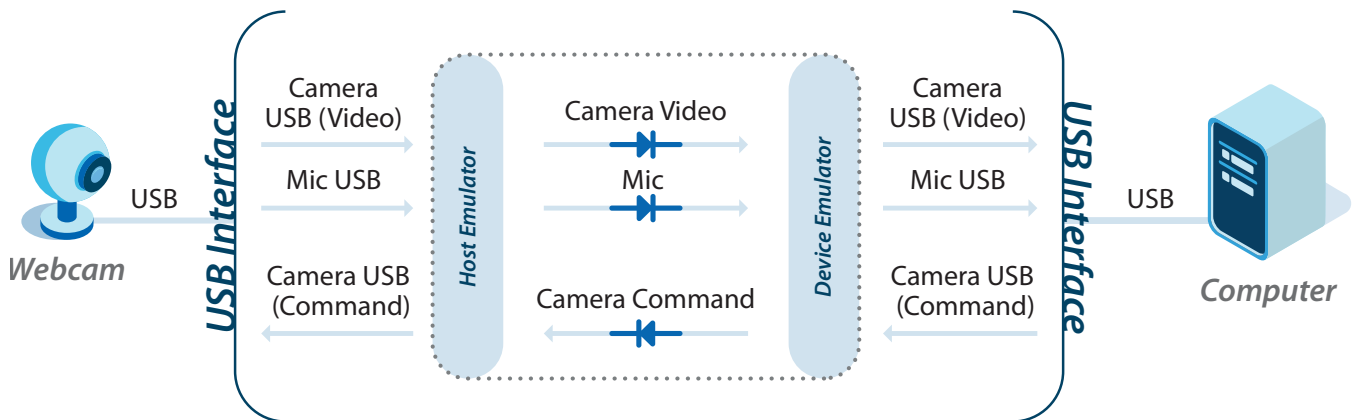
The Webcam Diode is perfect for installations where multiple computers are sharing the same webcam. In this case, the Webcam Diode is connected directly to the secure KVM switch. Because of the Webcam Diode, the webcam cannot be exploited as an intermediary in sharing data between computers.

KEY PRODUCT HIGHLIGHTS

- **Prevents hackers from exploiting a webcam for eavesdropping and data leakage**
- **Small size**
85mm x 65mm x 34mm for unobtrusive installation in any environment
- **No software drivers required.**
Simply connect and press the transmission button to operate.
- **Secure and Flexible**
Configure the call duration, disconnect alert and other key parameters to the way you prefer to work.

SPECIFICATION

MODEL NUMBER	FCA10BB-4
FEATURES	
Input Interface (Host)	USB 2.0
Output Interface (Webcam)	USB 2.0
Microphone Support	Yes
Camera Support	Yes
Always Open	No
PHYSICAL	
Dimensions	85(W) x 65 (D) x 34 (H) mm / 3.3(W) x 2.6 (D) x 1.3 (H) inch
Weight	185 g (0.41 lb)
ENVIRONMENTAL	
Operating Temperature	- 0°C to 40°C (32°F to 104°F)
Storage Temperature	-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
GENERAL INFO	
Made In	ISRAEL
Product Life-cycle	10 years
Warranty	2 Years



The Webcam Diode enforces unidirectional data flow so that the webcam cannot be used as an intermediary in exchanging data between computers. The internal switching mechanism is normally closed (disconnected), preventing eavesdropping from inadvertent or hacked transmissions.

The **FCA10BB-4** Webcam Diode joins HSL's large family of audio diodes, allowing users to safely conduct video-conferences across different networks using the same webcam. For more information on HSL's comprehensive media diode family, see: <https://highseclabs.com/product/webcam-diode/>