HighSecLabs
Highest Security Solutions ● ● ● Ltd.

Quick Start Guide
Audio Diode

Installing the Audio Diode
The following procedure is applicable to all HSL's audio diode models:

MODEL NUMBER	FA10A-4	FA10B-4	FA10AM-4	FA10BM-4	FA10AO-4	FA10BO-4	FA10AC-4	FA10BC-4
FEATURES								
Input Interface (Host)	Analog	USB	Analog	USB	Analog	USB	Analog	USB
Output Interface (Audio Device)	Analog	Analog	Analog	Analog	Analog	Analog	Analog	Analog
Microphone Support	✕	✕	✓	✓	✕	✕	✓	✓
Always Open	✕	✕	✕	✕	✓	✓	✕	✕

To install an Audio Diode:

❶ *Connect the Audio Diode to the PC*

1. For all models, connect the USB connector to the PC's USB port.
   Note: HSL's audio diodes are powered by USB.

2. For models FA10A-4, FA10AM-4, FA10AO-4 and FA10AC-4, connect the analog audio jack to the source PC's speaker port.
   Note: For the above models, the USB connection is only used to power the unit (no data).

3. For Models FA10AM-4 and FA10AC-4, which supports mic as well as speakers and uses a 4-pole audio jack:
   • If the PC has a 4-pole audio socket, connect the jack directly. OTHERWISE –
   • If the PC has a separate speaker and microphone ports:

   a. Attach the supplied adapter to the 4-pole audio jack.
   b. Connect the adapter's:
      · Speaker connector to the PC's speaker port.
      · Microphone connector to the PC's microphone port.

❷ *Connect the speaker/headphone and microphone (if enabled) to the Audio Diode*

1. For all models, connect the analog speaker connector to the Audio Diode's speaker port.

2. For models that enable a microphone, connect the analog microphone connector to the Audio Diode's microphone port.

Audio Cable
USB Cable
PC / Laptop
Headphone/Speaker
Webcam
Microphone

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Operating the Audio Diode

HSL's Secure Audio Diode family assure unidirectional audio flow and filtering of ultrasonic frequencies on all models. They effectively block eavesdropping on surrounding classified conversations.

Models **FA10A-4** and **FA10B-4** (with a speaker button) and **FA10AM-4**, **FA10BM-4, FA10AC-4** and **FA10BC-4** (with both speaker and mic buttons) in addition, let the user open and close the speaker and/or mic manually. On these models, by default, the speaker and mic are disabled.

A green LED, by default, indicates that the audio is closed (safe). When pressing the device button, the peripheral device connects for 10 minutes, and the LED changes to red (unsafe). A minute before the audio switches off, the LED around the button flickers as a warning. The user can then extend that time with a long press on the button.

Secure / Safe to Talk (Default)
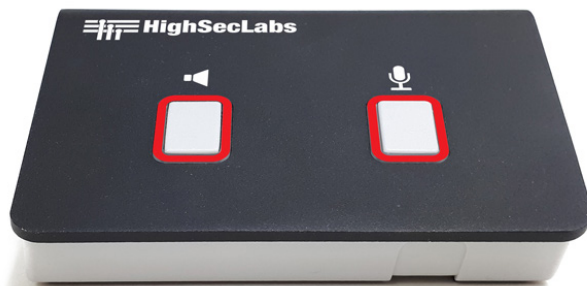
Not Secure / Speaker & Mic Open
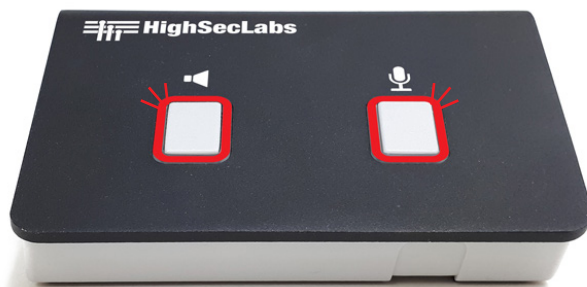
About to Close

Safety and Regulatory Statements

Safety Symbols

One or more of the following symbols may be included in your product documentation and/or on the product.

Instructions: This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the product user manual.

Dangerous Voltage: This symbol is intended to alert the user to the presence of uninsulated dangerous voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

Power On: This symbol indicates the principal on/off switch is in the ON position.

Power Off: This symbol indicates the principal on/off switch is in the OFF position.

Protective Grounding Terminal: This symbol indicates a terminal which must be connected to earth ground prior to making any other connections to the equipment.

Safety Precautions

> **WARNING:** To avoid a potentially fatal shock hazard and possible damage to equipment, please observe the following precautions.

- Do not disable the power grounding plug. The grounding plug is an important safety feature.
- Plug the power cord into a grounded (earthed) outlet that is easily accessible at all times.
- Disconnect the power from the product by unplugging the power cord from either the electrical outlet or the product. The AC inlet is the main disconnect for removing power to this product. For products that have more than one AC inlet, to remove power completely, all AC line cords must be disconnected.
- This product has no serviceable parts inside the product enclosure. Do not open or remove product cover.

> **CAUTION:** Some HSL products contain a lithium battery. This battery is not a field replaceable item, and replacement should not be attempted by a user. If errors occur when using the product and the battery is suspected, contact HSL Technical Support.

> **WARNING:** For Service Personnel Only - There is a risk of explosion if the battery is replaced with an incorrect type. Dispose of used batteries according to the manufacturer's instructions.

This product is for use with other products that are Listed or Certified by a Nationally Recognized Testing Laboratory (NRTL).

NIAP Protection Profile

FA10A-4, FA10AM-4, FA10AO-4, FA10AC-4 are certified to the NIAP Protection Profile PSD version 4.0 certification for peripheral sharing switch devices.

FA10B-4, FA10BM-4, FA10BO-4, FA10BC-4 are designed to be compliant with the NIAP protection profile PSD Version 4.0

Installation Precautions

> **NOTE:** HSL Secure Audio Diodes are protected with Holographic Tamper-Evident Labels on the product's enclosure to provide a visual indication in case the enclosure has been opened or compromised.

As the product powers-up it performs a self-test procedure. In case of self- test failure for any reason, the product will be inoperable and self-test failure will be indicated by abnormal LED behavior, if applicable. In this case, please call Technical Support and avoid using the product.

Do not connect this product to computing devices that:

- are TEMPEST computers
- include telecommunication equipment
- include frame grabber video cards
- include special audio processing cards

Security Vulnerability

If you are aware of a potential security vulnerability while installing this product, contact Technical Support immediately by:

- Web form: www.highseclabs.com/support/case/
- Email: security@highseclabs.com
- Tel: +972-4-9591191/2

Change Management

For change management tracking, perform a quarterly log check to verify that the RFD was not improperly used to override the current device policy by an unauthorized person.