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HighSecLabs FV11D-M Secure Isolators

HighSecLabs FV11D-M Secure Isolators User Guide

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HighSecLabs FV11D-M Secure Isolators

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Connecting the Isolator

Step 1 – Connect the PC to the Isolator's PC SIDE:

1. Audio connection: For all models, connect the PC to the Isolator's AUDIO IN port, using a 1/8 (3.5mm) stereo plug.
2. Video connection: For all models, connect the PC to the Isolator's VIDEO IN port, using the corresponding video cable (VGA/HDMI/DVI/DP).
3. PC keyboard and mouse connection: For FI11D-M, FI11H-M, and FI11P-M models, connect the PC to the Isolator using a USB A to USB B cable. Connect the USB A end to the PC and the USB B end to the Isolator's COMP/MOUSE port.

Step 2 – Connect the peripherals to the Isolator's CONSOLE SIDE:

1. Audio connection: For all models, connect the speakers to the Isolator's AUDIO OUT port.
2. Video connection: For all models, connect the monitor/projector cable to the Isolator's VIDEO OUT port.
3. PC keyboard and mouse connection: For FI11D-M, FI11H-M, and FI11P-M models, connect a USB mouse and keyboard to the Isolator's corresponding MOUSE and KB ports.

Note: If either LED remains OFF, the Isolator does not recognize the device; use an alternative device.

Step 3 – Power ON the Isolator:

1. For all models, connect the power adapter to the Isolator's PC SIDE, DC IN port. Power ON the Isolator by plugging it into an AC wall outlet.
2. The PC SIDE Power LED should light continuously. If not, check the connections.

Step 4 – Make sure the PC and display are powered ON.

Press the CAPTURE button on the Isolator. The EDID LED will flicker for a few seconds and then light continuously.

FAQ

Q: What is the purpose of the Secure Isolator?
A: The Secure Isolator prevents vulnerable peripherals from mediating between compromised and secure computers by ensuring that video and audio flow in a single direction.
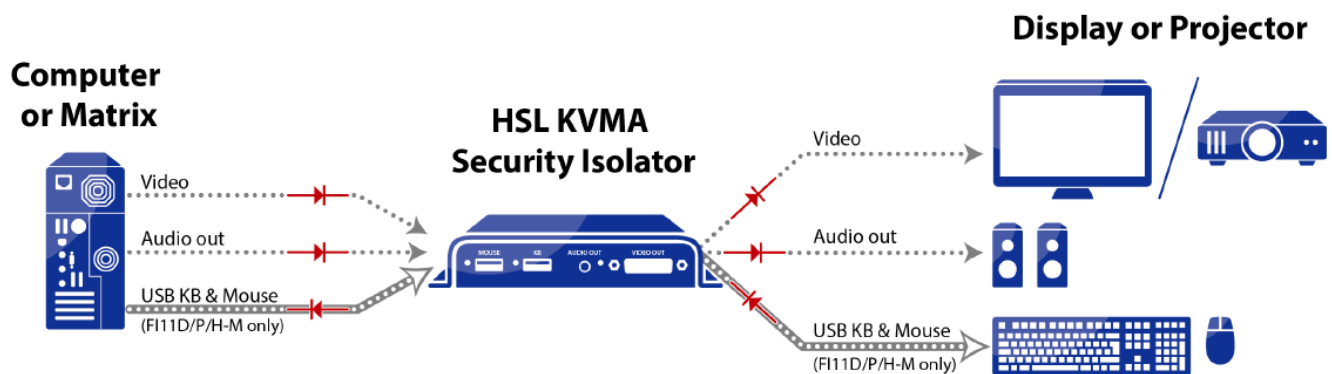
MODELS

- FV11D-M – Secure 1-Port DVI-I Video Isolator
- FV11H-M – Secure 1-Port HDMI Video Isolator
- FV11P-M – Secure 1-Port DisplayPort Video Isolator
- FI11D-M – Secure 1-Port DVI-I KVM Isolator
- FI11H-M – Secure 1-Port HDMI KVM Isolator
- FI11P-M – Secure 1-Port DisplayPort KVM Isolator

INTRODUCTION

HSL Secure Isolators

The secure Isolator prevents vulnerable peripherals from mediating between compromised and secure computers by ensuring that video and audio flow in a single direction.
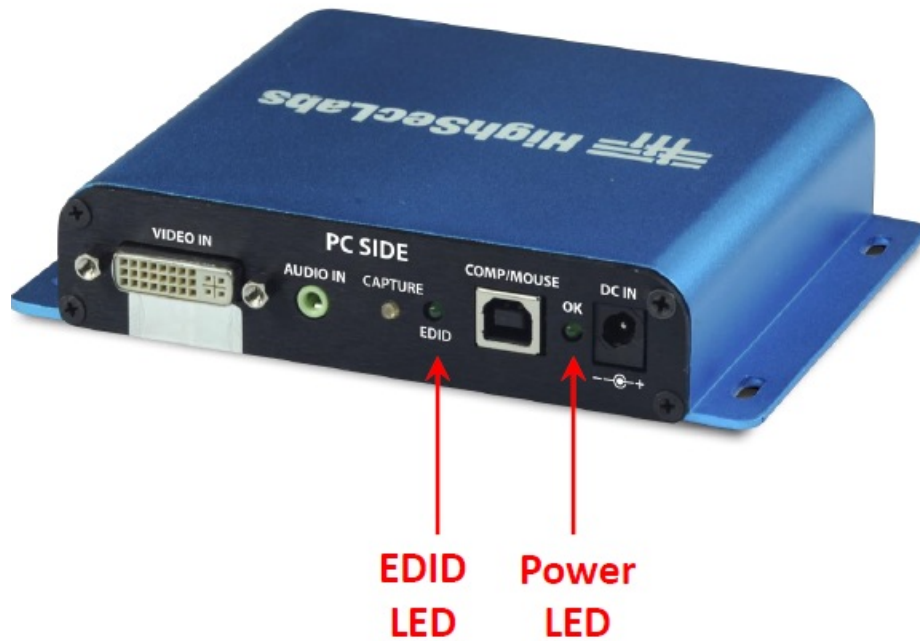

INSTALLATION

Connecting the Isolator

Step 1 – Connect the PC to the Isolator's PC SIDE:

1. Audio connection: For all models, connect the PC to the Isolator's AUDIO IN port, using a 1/8″ (3.5mm) stereo plug.
2. Video connection: For all models, connect the PC to the Isolator's VIDEO IN port, using the corresponding video cable (VGA/HDMI/DVI/DP).
3. PC keyboard and mouse connection: For FI11D-M, FI11H-M, and FI11P-M models, connect the PC to the Isolator using a USB A to USB B cable. Connect the USB A end to the PC and the USB B end to the Isolator's COMP/MOUSE port.

EDID Power
LED LED

Step 2 – Connect the peripherals to the Isolator's CONSOLE SIDE:

1. Audio connection: For all models, connect the speakers to the Isolator's AUDIO OUT port.
2. Video connection: For all models, connect the monitor/projector cable to the Isolator's VIDEO OUT port.
3. PC keyboard and mouse connection: For FI11D-M, FI11H-M, and FI11P-M models, connect a USB mouse and keyboard, to the Isolator's corresponding MOUSE and KB ports.
   Both mouse and keyboard LEDs should light continuously.
   Note: If either LED remains OFF, the Isolator does not recognize the device; use an alternative device.
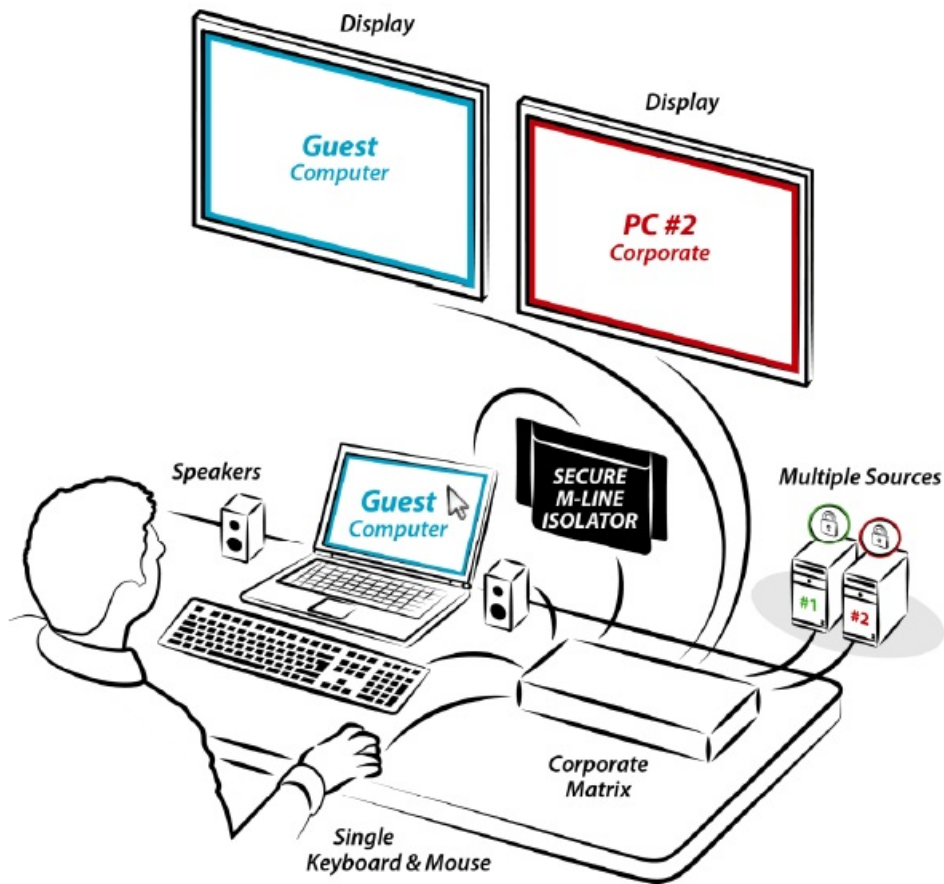

Mouse Keyboard
LED LED

Step 3 – Power ON the Isolator

1. For all models, connect the power adapter to the Isolator's PC SIDE, DC IN port. Power ON the Isolator by

plugging it into an AC wall outlet.

2. The PC SIDE Power LED should light continuously. If not, check the connections.

Step 4 – Make sure the PC and display are powered ON

OPERATION

Running an EDID Capture
Before using the Isolator, run a one-time EDID capture. This prevents the continuous transfer of potentially malicious data -from the display to the PC – that could infect the PC, cause data leakage, and so on.

Preparation:

- Connect the PC and all peripherals to the unit, according to the diagram.
- Make sure the PC, display, and unit are ON.

To run an EDID capture:

- On the PC SIDE, short-click the CAPTURE button – for less than one second.
  Warning: Long-clicking the CAPTURE button sends the unit into an undesired loop. If this happens, restart the unit and repeat the procedure.
  At first, the EDID LED flickers for a few seconds and then lights continuously.
  Note: If the EDID LED is OFF, check the connections and that the display is powered ON. Then, repeat the procedure.

- Restart the unit.

    Note: An EDID capture needs to be performed for new installations and when changing a display.

Documents / Resources

	HighSecLabs FV11D-M Secure Isolators [pdf] User Guide FV11D-M Secure Isolators, FV11D-M, Secure Isolators, Isolators

References

- ⧉ **Home New - HighSecLabs**
- Ⓜ **Manual-Hub.com - Free PDF manuals!**
- **User Manual**