

## EAN-Startup Guide 1750-OEM

2023-05-15

Exports: [Export Summary Sheet](#)

EULA: [End User License Agreement](#)


Web: [sightlineapplications.com](http://sightlineapplications.com)


Sales: [sales@sightlineapplications.com](mailto:sales@sightlineapplications.com)


Support: [support@sightlineapplications.com](mailto:support@sightlineapplications.com)

Phone: +1 (541) 716-5137

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 **CAUTION:** Alerts to a potential hazard that may result in personal injury, or an unsafe practice that causes damage to the equipment if not avoided.

 **IMPORTANT:** Identifies crucial information that is important to setup and configuration procedures.

 *Used to emphasize points or remind the user of something. Supplementary information aids in the use or understanding of the equipment or subject, which is not critical to system use.*



## 1 Overview

This Startup Guide provides the steps for connecting, configuring, and testing the 1750-OEM video processing board. The 1750-OEM board provides the standard connections for power and communication as well as general purpose IO and camera connections.

### 1.1 Additional Support Documentation

Additional Engineering Application Notes (EANs) can be found on the [Documentation](#) page of the SightLine Applications website.

The Panel Plus User Guide provides a complete overview of settings and dialog windows. It can be accessed from the Help menu of the [Panel Plus](#) application.

The Interface Command and Control ([IDD](#)) describes the native communications protocol used by the SightLine Applications product line. The IDD is also available as a PDF download on the [Software Downloads](#) page.

### 1.2 SightLine Software Requirements

- ⓘ IMPORTANT:** Starting with 3.6.x software and above, only the 4000 and 1700 platforms will be supported. The 1500 and 3000 platforms will continue to be supported in 3.5.x software. Some 3.6.x features may not be available on 1500 and 3000 platforms.
- ⓘ IMPORTANT:** The Panel Plus software version should match the firmware version running on the board. Firmware and Panel Plus software versions are available on the [Software Download](#) page.

## 2 Safe Device Handling

- ⚠ CAUTION:** To prevent damage to hardware boards, disconnect all input power to OEMs and adapter boards before connecting or disconnecting cables including all FFC, FPC, KEL, HDMI, MIPI, and round wire (Molex) cables.
- ⚠ CAUTION:** To prevent damage to hardware boards, use a conductive wrist strap attached to a good earth ground. Before picking up an ESD sensitive electronic component, discharge built up static by touching a grounded bare metal surface or approved antistatic mat.

## 3 1750-EVAL Kit

Provides a complete laboratory bench/development interface with standard connectors. For additional options and interface boards, please contact [Sales](#). To review all the interface board options, see the product pages on the SightLine Applications [website](#).

*The 1750-OEM will also support a number of USB Webcams and USB 3.0 Vision cameras.*



Table 1: 1750-EVAL Kit

| Part Number       | Qty | Description                                    | Part Number      | Qty | Description  |
|-------------------|-----|--|------------------|-----|--|
| 1700-SOM          | 1   | SLA AppBits                                    | SLA-CAB-1404     | 1   | Cable, 14-pin PicoBlade to pigtail                           |
| 1750-OEM          | 1   | SLA-CAB-0212                                   | SLA-CAB-0212     | ?   | Cable, RTC power cable                                       |
| 1750-OEM-MP       | 1   | 1750-OEM Mounting base                         | SLA-PWR-B12V-36W | 1   | 12V Power Supply w/ 2-pin connector (36W) plus AC power cord |
| SLA-3000-HDSOI-IN | 1   | HDSOI-IN Adapter board                         | SLA-CAB-0305     | 1   | TTL (3.3V) to USB serial cable w/ 3-pin Molex                |
| SLA-DIST          | 1   | PWR/ENET Distribution board                    | SLA-CAB-0302     | ?   | 3p Molex to pigtail  |
| SLA-CAB-1404      | 1   | 14-pin Molex-to-Molex PicoBlade, 1750 custom   | SLA-CAB-HD10     | 1   | HDMI cable   |
| SLHW-0009         | 4   | 3/8" OD Rubber Feet                            | SL00852          | 1   | HDMI adapter, female   |
| SLA-1750-BRACKET  | 1   | 1750 Heatshield, mounting bracket              | SLA-MSD-ADPT     | 1   | SD adapter   |
| SLA-USB-FPC-C     | 1   | PCBA, SLA-USB-FPC-C                            | SLA-CAB-MCX2BNC  | 1   | Cable, MCX (RA) to BNC(M) for HDSOI-IN                       |
| SLA-CAB-0314      | 1   | Debug serial port cable                        | SLA-CAM-HDSOI    | 1   | HD-SOI 1080p Camera  |
| SLA-CAB-USBC-FPC  | 1   | Cable, USBC-FPC                                | SLA-PWR-A12V     | 1   | 12V Power supply for camera                                  |
| SLHW-0021         | 4   | Stainless Steel pan head Phillips screw M2x4mm | GetOnBoard - Doc | 1   | Business/Info card   |
| SLA-MSD-32GB      | 1   | 32GB uSD card (installed)                      | SLA-CAB-0304     | 2   | 3-pin Molex to female DB9, null modem                        |

## 4 Hardware Bench Setup

- IMPORTANT:** To prevent damage to hardware boards, disconnect the power before connecting or disconnecting all cable connections.
- IMPORTANT:** The 1750-OEM and SOM must be disconnected in order to remove the debug cable connected at J9. Please contact [SightLine Support](#) for detailed instructions.

### Included boards:

- SLA-DIST:** Provides power switch and standard bench interface connections for power and ethernet connections to the **1750-OEM**.
- SLA-3000-HDSOI-IN:** Provides camera interface to HDSOI cameras.

### Cable connections:

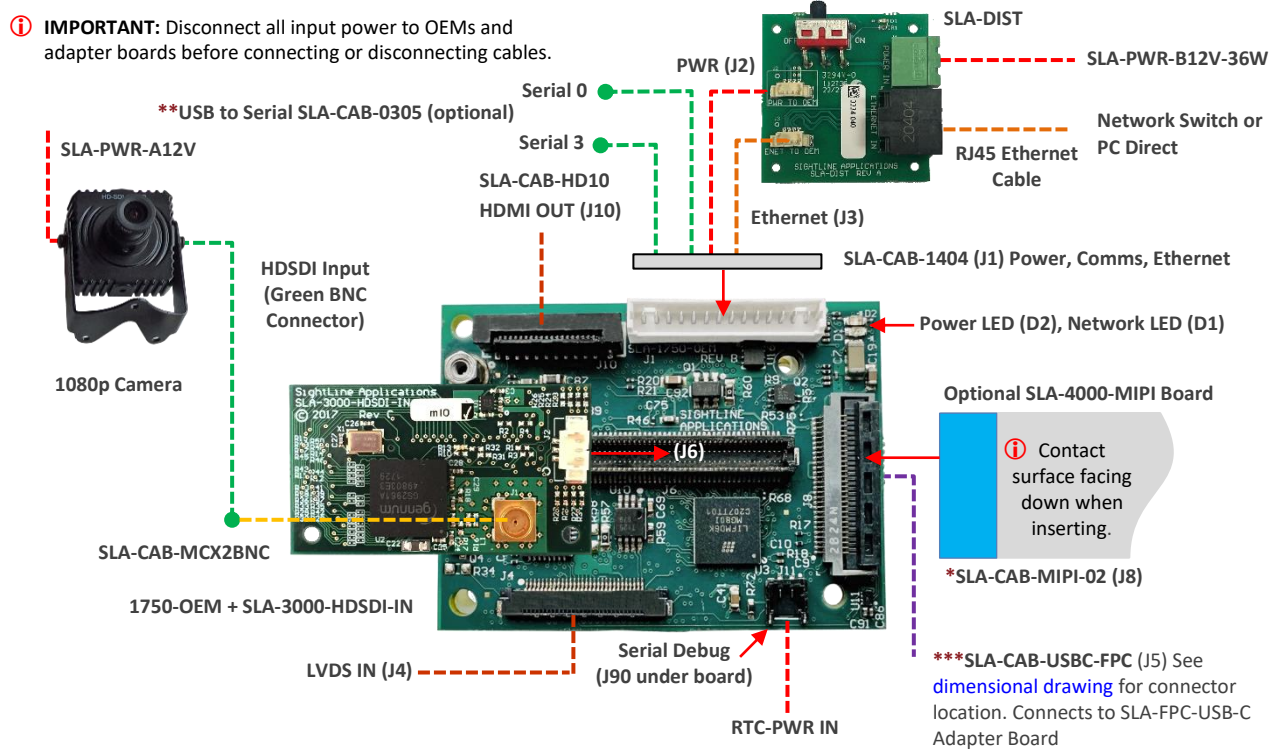
- SLA-CAB-MCX2BNC:** Connects to J1 (MCX jack) on the 3000-HDSOI-IN board and to the green BNC connector of the 1080p camera.

*The yellow BNC connector is for analog use only.*

- SLA-CAB-1404:** Connects to J2 (PWR) and J3 (Ethernet) on the SLA-DIST board and J1 on 1750-OEM.
- SLA-PWR-A12V (110-250VAC input / 12VDC output):** Connects to the red power connector on the HD-SOI 1080p camera.
- SLA-PWR-B12V-36W (110-250VAC input / 12VDC output):** Connects to J4 on the SLA-DIST board.
- RTC power cable:** Supplies power to the Real Time Clock (RTC). See Appendix B in [EAN-Network-Configuration](#).

### Power and network connectivity LEDs:

- A green light (D2) on the 1750-OEM indicates that all boards are powered on. An amber light (D1) verifies network connection.
- To prevent voltage spikes to the board, plug in the power adapter to an AC power source first and then connect to the board.



**Figure 1: Typical Bench Hardware Setup**

\*SLA-CAB-MIPI-02 FFC cable must be connected correctly. See [FFC cable](#) instructions before connecting the SLA-4000-MIPI board. Before adding the SLA-CAB-MIPI-02 FFC cable, remove the adapter board attached to the OEM on J6.

\*\*SLA-CAB-0305 can connect to SLA-CAB-1404 to facilitate a PC/USB connection to serial port 0 on the 1750-OEM. See the [Serial Communications](#) section for more information.

\*\*\* SLA-CAB-USBC-FPC is a directional cable and must be connected correctly. End (A) connects to 1750-OEM on (J5). End (C) connects to the SLA-FPC-USB-C adapter board.

#### 4.1 Additional SightLine Adapter Boards

SightLine adapter boards provide different I/O, camera inputs, or digital outputs. The boards can be attached directly to the 1750-OEM or through a secondary adapter allowing customers to swap out modules for custom configurations. This setup guide assumes the initial use of the EVAL kit only. Customer specific configurations with other camera input boards are fully supported. See the [EAN-Digital-Video-Configuration](#) for more setup and configuration information for supported cameras.

### 5 Network Configuration

The 1750-OEM does not come with a pre-assigned IP address. Instead, it will use a valid link-local address by default. This allows multiple 1750-OEM devices to coexist on the same network without requiring DHCP. This method guarantees that each device will receive a unique address within the range of 169.254.0.0 to 169.254.255.255.

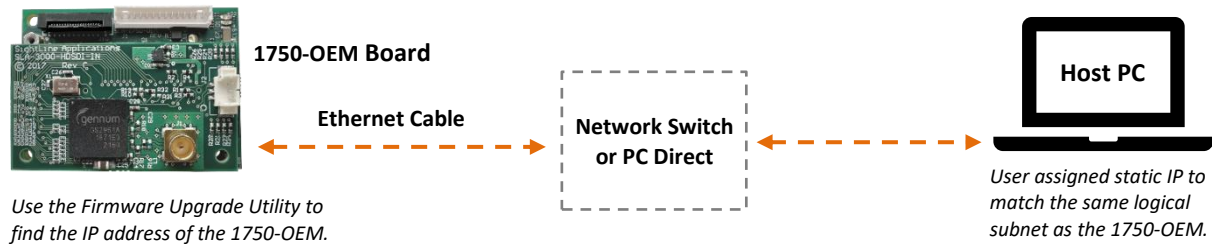
Refer to [EAN-Network-Configuration](#) for more network configuration information.

SightLine recommends assigning a static IP on the PC when a DHCP server is not present on the network.

If you require additional assistance with assigning a static IP address to the host PC, contact your network administrator.



*The Firmware Upgrade Utility can be used to find the IP address of the OEM.*



**Figure 2: Network Configuration Options**

### 5.1 Static IP Configuration Through Ethernet

1. Connect the board to a DHCP network.
2. Apply power to the 1750-OEM and wait for the board to receive an address from the DHCP server.
3. Connect to the board in Panel Plus.
4. Configure a static IP address using the procedure outlined in [EAN-Network-Configuration](#).

**Configuration notes:**

- If a wireless adapter is active on the host PC it should be disabled.
- If using the link local address, we recommend assigning a static IP address to the host PC. Use an address on the same logical subnet.
- Example, if the 1750-OEM is discovered as 169.254.210.220 with a subnet of 255.255.0.0, set the local PC with an IP address of 169.254.210.x where (x) is not 220, with a subnet of 255.255.0.0.

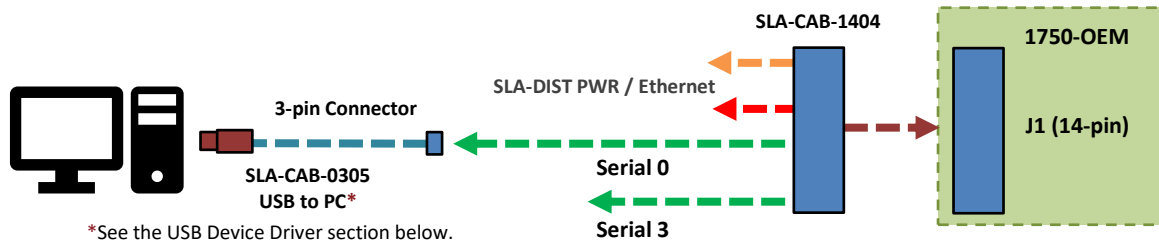
*If additional assistance is required with assigning a static IP address to the host PC, contact your network administrator or search online for procedures that correspond with the current PC operating system.*

- Problems with outbound streaming are often related to setting/assigning IP addresses and ports. See the Encoding Configuration settings in [EAN-Encoding](#) for advanced settings.

## 6 Serial Communications

*Use a direct serial connection for troubleshooting or if a network connection cannot be established.*

To connect to a PC USB port, attach the USB to TTL (3.3V) serial cable (SLA-CAB-0305) to SLA-CAB-1404 to J1 (Serial 0) on the 1750-OEM board (Figure 3). Serial ports on the 1750-OEM are 3.3V TTL.



\*See the USB Device Driver section below.

**Figure 3: J1 Serial 0 to PC Connection (SLA-CAB-1404)**



## 6.1 Direct Serial Connection (optional):

1. Connect the serial cable to the 1750-OEM board and host PC as show in [Serial Communications](#).
2. From the *Connect* tab, click the *Refresh List* button to get a list of available COM ports.
3. Select the Com port in the drop-down menu.
4. Click the *Disconnected (click to connect)* button.

**ⓘ IMPORTANT:** Video cannot be streamed over a serial connection.

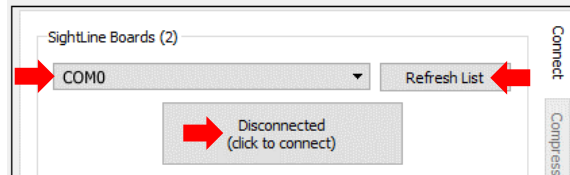


Figure 4: Direct Serial Connection

## 6.2 USB Device Driver

If the USB connection on SLA-CAB-0305 is not functioning correctly a third-party driver may be needed. The driver can be found on the [Silicon Labs](#) web page » *Downloads* tab » *CP210x Universal Windows Driver*. Once installed open the Run window in Windows (WIN+R) and enter *devmgmt.msc* to open the Device Manager. Verify the new driver is listed under *Ports (COM & LPT)* as shown in [Figure 5](#).

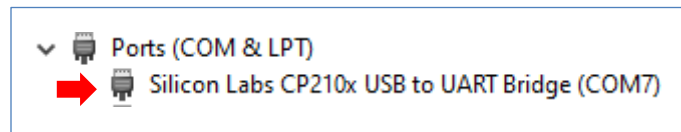


Figure 5: CP210x Universal Windows Driver Installed

## 7 Panel Plus

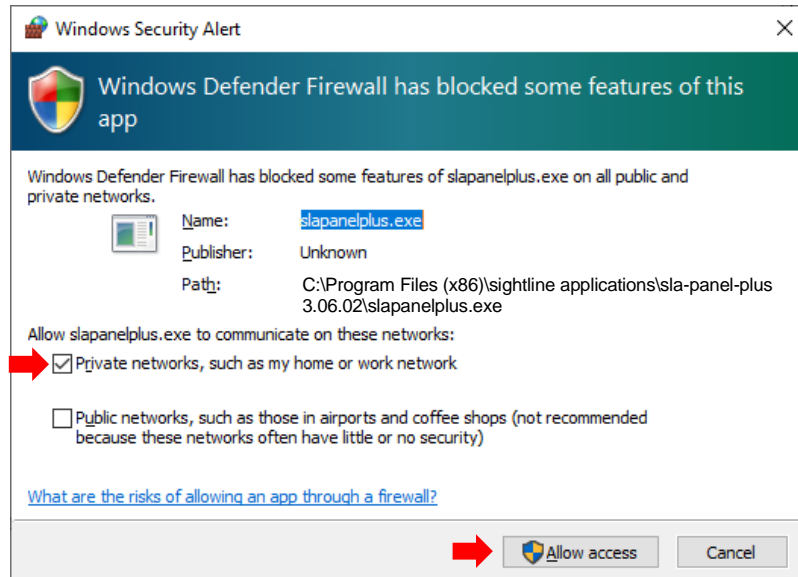
This section covers the Panel Plus setup and configuration process. Panel Plus provides a basic graphical interface to the 1750-OEM board.

Before connecting with the Panel Plus software, the 1750-OEM board should be powered up and connected through:

- a network switch or directly to the host PC (preferred) or,
  - Direct serial connection (for troubleshooting or if a network connection cannot be established).
1. Go to the [Software Downloads](#) page on the SightLine website and download the Panel Plus application installer. Older releases are available under the *Previous Versions* section.
  - ⓘ IMPORTANT:** The firmware version number and Panel Plus Software version number should match. If the board firmware version is initially unknown, reference the SightLine invoice that came with the board when it was purchased.
  2. Launch the installer file and follow the prompts. After installation, open the Panel Plus application.
  3. The first time that Panel Plus is launched, a Windows Security Alert prompt should appear. Select *Allow Access* to create a firewall exception ([Figure 6](#)).



*Approving private network access is sufficient in most cases. Check public networks if directly connecting to the board.*

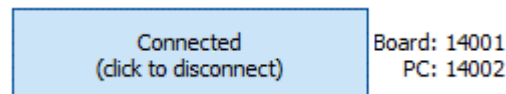


**Figure 6: Windows Security Alert Prompt**

**IMPORTANT:**

- Do not cancel this prompt. Failure to allow access at this point will not allow the Panel Plus application to connect to the board. See the [Troubleshooting](#) section for more information.
  - Before using the Panel Plus program, review the Panel Plus User Guide in the Help section of the Panel Plus application for additional user and setup information.
4. Network connection to the board:
- a. From the *Connect* tab, click the *Refresh List* button to get a list of boards on the network.
  - b. Select the appropriate board in the drop-down menu.
  - c. Click the *Disconnected (click to connect)* button.

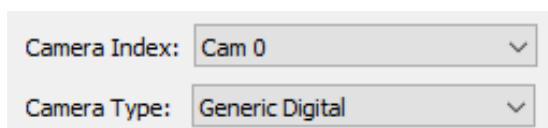
*Once the connection is successful, the button changes to Connected.*



**Figure 7: Network Connection to the OEM Board**

## 7.1 Camera Acquisition

1. From the main menu go to *Configure » Acquisition Settings*. This dialog window allows changes to the camera configuration.
2. Set the *Camera Index* to *Cam 0*. Set the *Camera Type* to *Generic Digital*.





- In the *AutoFill* drop-down menu, select *HD-SDI 1080p30* from the Auto Fill menu or enter the *Height* and *Width* settings of the connected camera.

If using a camera that is not configured for 1080p30, choose a corresponding option under Auto Fill that matches the camera, e.g., *HD-SDI 720p* or *HD-SDI 1080p60*.

If the camera is listed, the *AutoFill* drop-down menu automatically populates the relevant fields with the correct settings as shown in *Figure 9*.

Generic Digital Settings

Auto Fill HD-SDI 1080p30

Height 1080 Width 1920 Resulting Flag Bits **0x801**

Vertical Front Porch: 0 Horizontal Front Porch: 0 Bit Depth: 16

Input:  Gray Scale  YUV color  G8 16bit in  Bayer  Laser  Interlaced  Byte Swap

Invert V-Sync Polarity  Invert H-Sync Polarity  UB0  2xbin Sync/Crop: Embedded Sync

Camera Init Code: None

Options:  

Big: Height 0 Width 0 Vertical Blanking 0 Horizontal Blanking 0

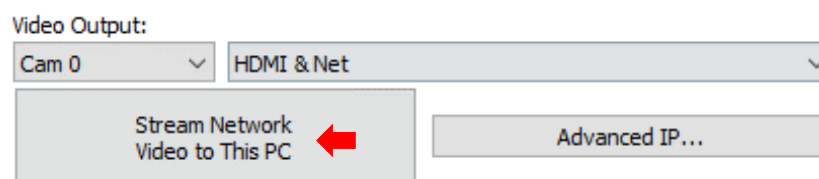
**Figure 8: Camera Acquisition Auto Fill Settings Example - HD-SDI 1080p30**

- After changes have been made, the *Apply* button will turn red indicating that a change has been detected. Click *Apply* to apply the changes. Close the *Acquisition Settings* dialog window.
- Save and activate the settings:
  - Main menu » *Parameters* » *Save to Board*.
  - Main menu » *Reset* » *Board*.
  - After the system reboots reconnect to the board. Make sure the board connects.

See the [camera configuration tables](#) for all third-party cameras and lens assemblies that are currently supported by SightLine software. Includes configuration and setting support guidance.

## 7.2 Stream Network Video to This PC

To stream network video to the connected PC, click the *Connection* tab in Panel Plus and then click *Stream Network Video to this PC*.



**Figure 9: Stream Network Video to PC**



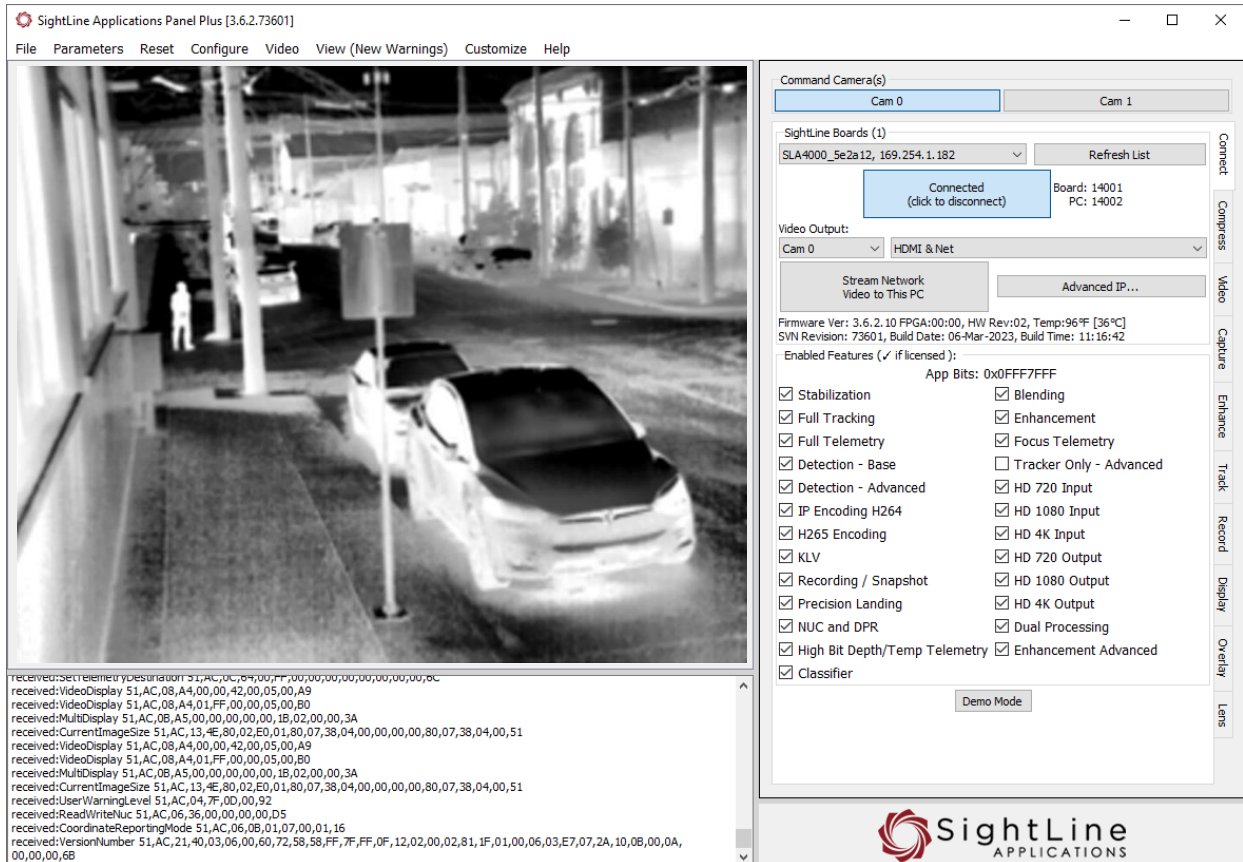


## 8 Summary

This completes the startup guide for the 1750-OEM board. See the Panel Plus User Guide (main menu » *Help* » *User Guide*) for additional user and setup information.

If the board has been connected to a camera and encoding functions are part of the configuration, video will be displayed in the main window. On the *Connect* tab of Panel Plus, the purchased/enabled functions are checked. To add additional features to 1750-OEM, contact [Sales](#).

*To modify the encoder parameters of the OEM, see the [Modifying Encoder Parameters](#) section.*



**Figure 10: Panel Plus Connection to Board**

**ⓘ IMPORTANT:** Not all 1750-OEM purchased configurations include encoded IP video. For configurations that include encoding, video will be displayed in the Panel Plus main window. Tracker-only configurations will display processed video on the HDMI output only. An HDMI-capable monitor is required for viewing this output.

### 8.1 Demo Mode

SightLine offers a free demo mode for testing non-licensed features. To test and evaluate these features, click the *Demo Mode* button located in the *Connect* tab.

To exit the demo mode power cycle the OEM. The *Demo Mode* screen overlay will continue to display until the *Demo Mode* function is turned off. Certain features are unavailable for testing in *Demo Mode*.

*Telemetry outputs are not enabled in Demo Mode.*



## 9 Modifying Encoder Parameters

The encoder parameters can be modified from the *Compress* tab in Panel Plus.

- The H.264 encoding option is a good choice to get started.
- In the *Output Properties* section, use the default values for *Frame Step* and *Down Sample*.
- The *Streaming* parameters section defines the destination IP address and port.
- To set the parameters quickly, click the Use My IP - Unicast button. This sets the outbound destination IP address to the network interface card on the PC.
- Click *Send* to dynamically set the desired IP Address, UDP Port, and UDP delivery format (Unicast, Multicast, or Broadcast).
- To save the settings and make them recurrent through restarts, main menu » *Parameters* » *Save to board*.
- See [EAN-Parameter-File](#) for a comprehensive guide to saving parameter settings.

**Network 0**

**CODEC / TRANSPORT**

**RTP:**  MJPEG  RTP H.264  RTP MPEG2-TS H.264  
 RTP H.265  RTP MPEG2-TS H.265

**MPEG2-TS:**  H.264  KLV Only  
 H.265  
 Remove TS encapsulation, leave UDP packets only.

UDP packet size not to exceed: 1472 Bytes

RTP Aggregate Packets: Default

**Output Properties**

Frame Step: 1 Down Sample: None

Output Frame Size: Out=In

Quality: 80

Foveal: 0

Custom Width: 0 Custom Height: 0

H.264 Profile: High

Bit Rate: 3.000 [Mbps]

I-Frame Interval: 30 [frames]

Block Refresh: 0 [blocks]

Slice Refresh Size: 0 [rows]

Deblocking: Filter all edges

Bit Rate Control: Variable

Save Output Settings

**Streaming**

To IP Address: 169.254.16.248 Port: 15004

Broadcast

Start/Stop All Nets

**Statistics**

|                |      |         |        |      |          |
|----------------|------|---------|--------|------|----------|
| Frames         | 0.00 | [1/sec] | Video  | 0.00 | [Kb/sec] |
| Profile:       | N/A  |         | KLV    | 0.00 | [Kb/sec] |
| Encapsulation: |      |         | Codec: |      |          |

Figure 11: Compress Tab



## 10 Troubleshooting

**Issue:** Unable to connect with the Panel Plus application to the 1750-OEM over a standard network connection.

### Check static IP address:

Check the static IP address configuration. Improper or unknown static IP address setup is a common connection problem. See the [Network Configuration](#) section and [EAN-Network Configuration](#) for more network configuration information.

### Check network configuration:

After communications have been established using the serial connection, networking settings can be corrected to allow proper network communications.

1. From the main menu, go to *Configure » Network Settings*.
2. If an unknown static IP address is assigned, remove it or update it to match the addressing scheme of your network.

The screenshot shows the 'Network Settings' window for the 'eth0' interface. The 'Use Static IP' checkbox is checked. The IP address is set to 132.4.7.181, the subnet is 255.255.0.0, and the gateway is 132.4.7.1. The Command and Control Port is 14002. A blue callout box with a red arrow points to the IP address field with the text 'Check network settings'.

Figure 12: Check Network Settings

### Check Windows firewall:

Failure to allow access in the Windows Security Alert dialog during initial startup of the Panel Plus application can cause connection issues.

1. Close the Panel Plus software application and open the Windows Firewall Security Manager on the host PC.
2. Go to Inbound rules and delete the two *slapanelplus* rules (TCP and UDP).

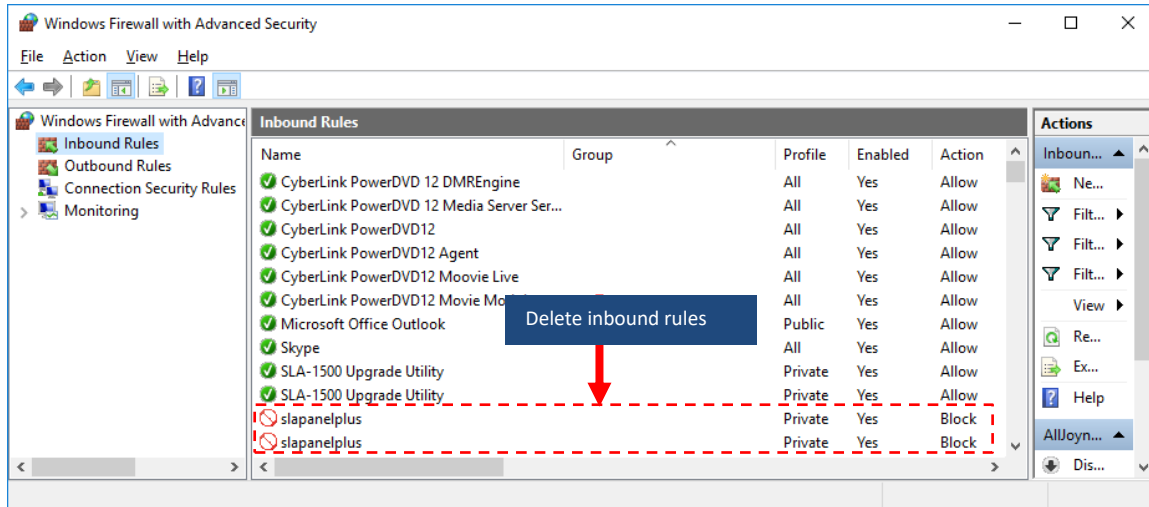


Figure 13: Windows Firewall Security Manager Fire - Delete Inbound Rules

3. Re-start the Panel Plus application and allow access in the Windows Security Alert prompt window.

**Check hardware connections:**

Make sure that all the boards are powered on. If connecting over the network, switch to a direct serial connection. See the [Serial Communications](#) section. The Panel Plus software will automatically recognize serial ports and list them in the drop-down menu for available connections.

*Connecting to the serial port on the 1750-OEM board from a host PC requires TTL (3.3V) to USB serial cable w/ 3-pin Molex cable (SLA-CAB-0305).*

**10.1 Send Diagnostic Files to SightLine Support**

In the event of a system malfunction or other issue, use the *Get Diagnostic Files* feature in the SightLine upgrade utility application to download files and then send them to [Support](#).

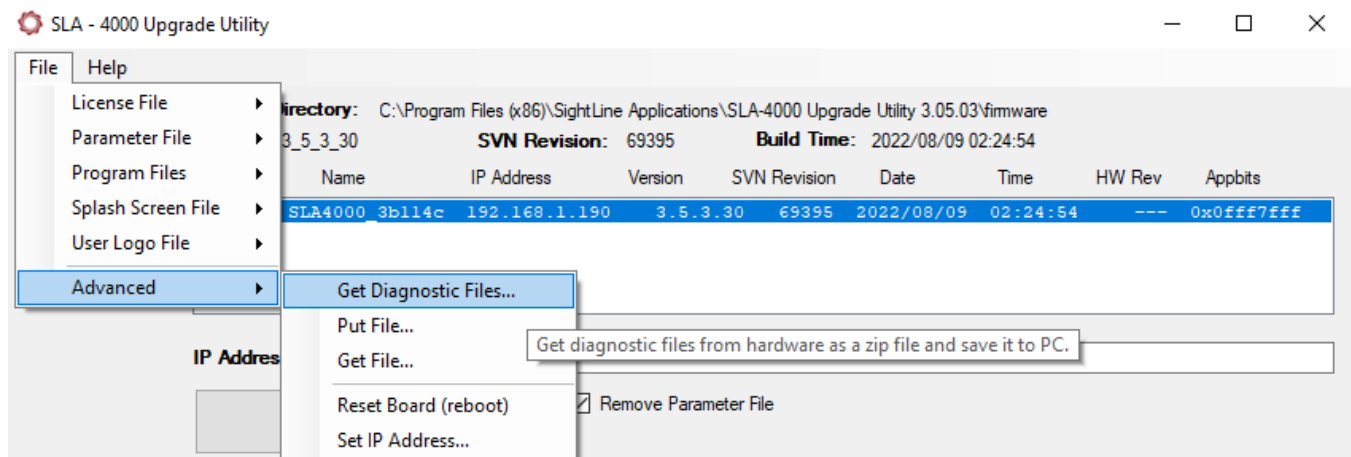


Figure 14: Get Diagnostic Files

Additional diagnostic information can also be obtained from the 1750-OEM by displaying the system log.



1. Establish an SSH session to the OEM with [Tera Term](#) (recommended) or similar application.
2. Login using the default username and password for the 1750-OEM: *s/root*
3. At the prompt, type:  
`dmesg`
4. Copy the output and send it to [Support](#).

## 10.2 Nonfunctional SLA-4000-MIPI-IN Board (4000-MIPI-IN Kit)

I2C Bus 3 detect can be used to help diagnose issues with ports and/or cable connections on the SLA-4000-MIPI-IN board.

1. Remove all the adapter boards from the 1750-OEM.
2. Establish an SSH session to the 1750-OEM with [Tera Term](#) (recommended) or similar application.  
Username and password: *s/root*
3. Run command: `i2cdetect -y -a -r 3`. The status of the SLA-4000-MIPI-IN board in Tera Term is shown in [Figure 12](#).

| Functioning and Connected Correctly  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Not Functioning and/or Connected Correctly   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| <pre> #s/root e ~ SD&gt; i2cdetect -y -a -r 3  0  1  2  3  4  5  6  7  8  9  a  b  c  d  e  f 00: -- -- -- -- -- -- -- -- -- -- -- -- -- -- -- 10: -- UU -- -- -- -- -- -- -- -- -- -- -- -- -- 20: -- UU -- -- -- -- -- -- -- -- -- -- -- -- -- 30: -- -- -- -- -- -- -- -- -- -- -- -- -- -- -- 40: 40 -- -- -- -- -- -- -- -- -- -- -- -- -- -- 50: -- UU -- -- -- -- -- -- -- -- -- -- -- -- -- 60: -- UU -- -- -- -- -- -- -- -- -- -- -- -- -- 70: -- -- -- -- -- -- -- -- -- -- -- -- -- -- -- </pre> |  |  |  |  |  |  |  |  |  |  |  |  |  |  | <pre> #s/root e ~ SD&gt; i2cdetect -y -a -r 3  0  1  2  3  4  5  6  7  8  9  a  b  c  d  e  f 00: -- -- -- -- -- -- -- -- -- -- -- -- -- -- -- 10: -- -- -- -- -- -- -- -- -- -- -- -- -- -- -- 20: -- -- -- -- -- -- -- -- -- -- -- -- -- -- -- 30: -- -- -- -- -- -- -- -- -- -- -- -- -- -- -- 40: -- -- -- -- -- -- -- -- -- -- -- -- -- -- -- 50: -- -- -- -- -- -- -- -- -- -- -- -- -- -- -- 60: -- -- -- -- -- -- -- -- -- -- -- -- -- -- -- 70: -- -- -- -- -- -- -- -- -- -- -- -- -- -- -- </pre> |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Figure 15: I2C Bus 3 Detect with Tera Term

4. If nothing shows up using I2C Bus 3 detect, check the SLA-CAB-MIPI-02 cable connection between the SLA-4000-IN MIPI board and the 1750-OEM, and then repeat steps 1 through 3.
- IMPORTANT:** To prevent damage to hardware boards, disconnect the power before connecting or disconnecting the SLA-CAB-MIPI-02 cable.
5. If the board is still not responding contact [SightLine Support](#).

## 10.3 Questions and Additional Support

For questions and additional support, please contact [SightLine Support](#). Additional support documentation and Engineering Application Notes (EANs) can be found on the [Documentation](#) page of the SightLine Applications website.