SightLine Applications™
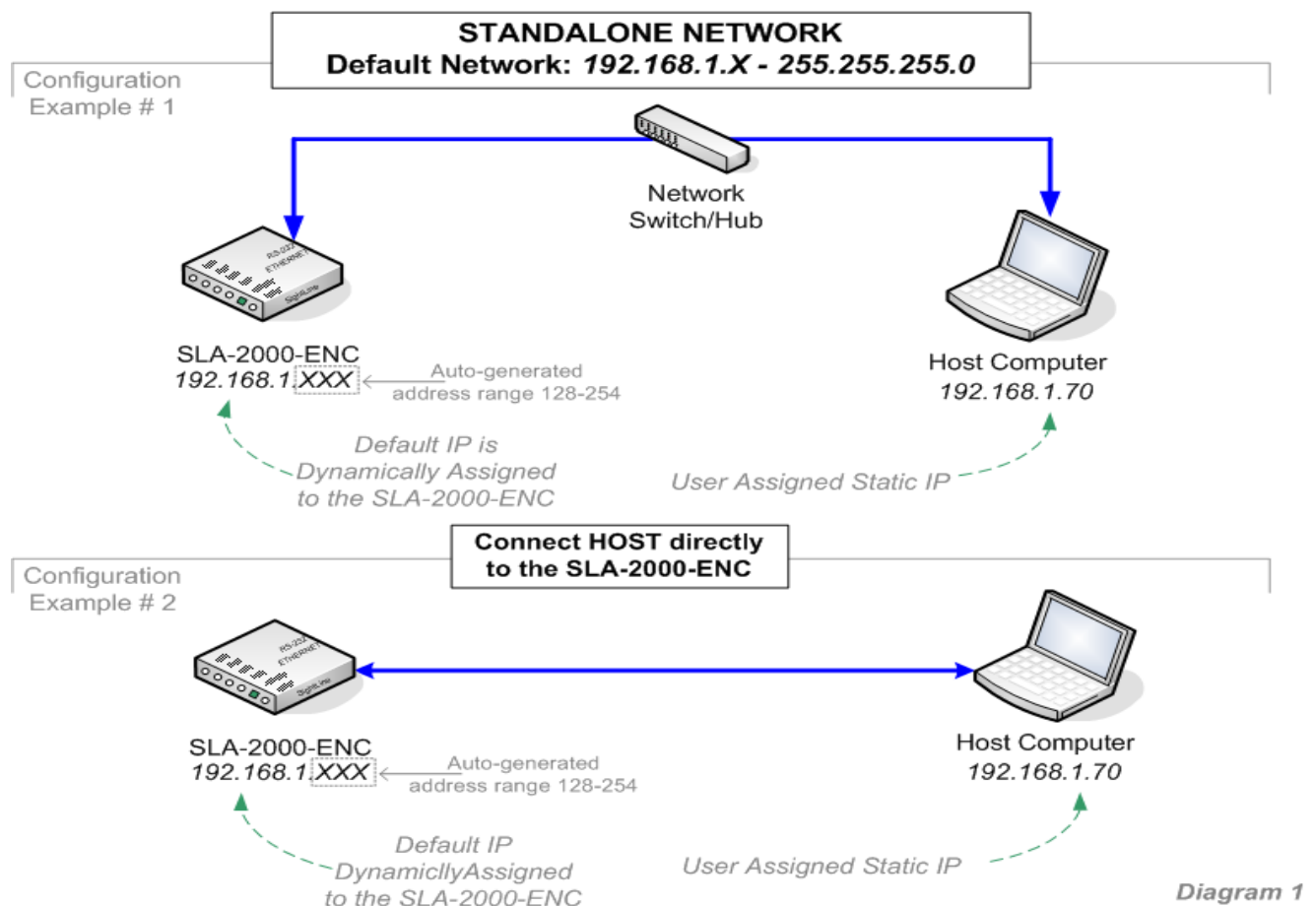
SLA-2000-ENC Start-Up Guide

Release 3.0

March 1, 2014

This guide provides the steps for connecting, configuring, and testing the SLA-2000-ENC. We recommend that you setup a standalone network or connect directly to the SLA-HARDWARE. The below diagram outlines these two options.

NETWORK CONFIGURATION

Either of these examples require that you assign the HOST computer a static IP address. Please refer to your computer's documentation on how to assign a static address. Example #1 shown here consists of the SLA-2000-ENC, a network switch, and the HOST computer. The SLA-2000-ENC has defaulted to its self-dynamic IP address of 192.168.1.200. Example #2 shows the SLA-2000-ENC connected directly to the HOST computer.

STANDALONE NETWORK
Default Network: *192.168.1.X - 255.255.255.0*

Configuration Example # 1

Network Switch/Hub

SLA-2000-ENC
192.168.1.XXX ← Auto-generated address range 128-254

Host Computer
192.168.1.70

Default IP is Dynamically Assigned to the SLA-2000-ENC

User Assigned Static IP

Connect HOST directly to the SLA-2000-ENC

Configuration Example # 2

SLA-2000-ENC
192.168.1.XXX ← Auto-generated address range 128-254

Host Computer
192.168.1.70

Default IP DynamicllyAssigned to the SLA-2000-ENC

User Assigned Static IP

Diagram 1

NOTE: Please disable your wireless adapter if there is one present/active on the HOST computer. The SLA-2000-ENC's default IP address (when no DHCP server is available) is the above network with the last octet dynamically generated from the range of 128-254. Assign a static IP address to the HOST computer of 192.168.1.X, where X is 0-127 (do not use 128-254). Use a subnet mask of 255.255.0 and gateway of 192.168.1.1.

SERIAL COMMUNCATIONS

If all you require is the analog video output from our hardware, you can optionally just use a serial connection to communicate with the SLA-2000-ENC. The SLA-PANEL software supports using serial communication (COM) ports. A 'Null Modem' connection is required for this communications. We supply a 9-pin null modem adapter (SLA-CAB-NULL) that can be used with a straight-thru serial cable.

KITS PARTS LIST

There will be a separate Kit Parts List included with the SLA-2000-ENC. This guide will refer to parts contained in the base kit items listed in the table below. The kit optionally could contain other items for your specific requirements. Please refer to the included separate parts list for inventory purposes.

BASE KIT CONTENTS - The SLA-KIT-2000-ENC includes the following:

SLA-2000-ENC Kit		Part	Qty	Description
Hardware	Item 1	SLA-2000-PWR	1	12V Power Supply
	Item 2	SLA-2000-ENC	1	Enclosure Box
	Item 3	SLA-CAB-ETH0	1	Yellow Ethernet Cable CAT 5e
	Item 4	SLA-CAB-NULL	1	Null Modem 9 Pin Adapter (F/F)
	Item 5	SLA-CAB-RCA2BNC	2	RCA (M) to BNC (M) Cable
	Item 6	SLA-ADPT-B2R-MF	2	BNC (M) to RCA (F) Adapter
	Item 7	SLA-CAM-ANTSC	1	Camera will be NTSC unless otherwise requested
Documentation	Item 8	SLA-DOC-SUG-2000ENC	1	SLA-2000-ENC Start-up Guide (this document)

This section will guide you through the software and hardware setup process. The first steps outline how to install the SLA-PANEL application. It provides a basic interface to the features and functions of SLA-2000-ENC.

NOTE: If you have an earlier version of the SLA-PANEL software installed, please uninstall it prior to installing new version.

SOFTWARE SLA-PANEL Program	
1	Download and install the SLA-PANEL software	Startup an Internet web browser and navigate to: http://www.sightlineapplications.com/support.html
2	From the SightLine support page, select the latest SLA-PANEL software	From your browser, select the linked file. This will initiate the download process.
Figure 2 >	
3	When the download prompt comes up, click *'SAVE'*	Select a local folder to save the file. Then extract the files and run the SLA-PANEL setup installation file.

After installation of the software and the very first time the SightLine SLA-PANEL application is started on the HOST computer, a Windows Firewall prompt to '*Allow Access'* may appear so the application can communicate on the network properly. Please make sure to respond to this request promptly to allow access, as there is a defaulted timeout value where that option is to restrict access. Optionally you can temporarily disable the Windows Firewall, but please follow your company's network and security policies to remain in compliance as required.
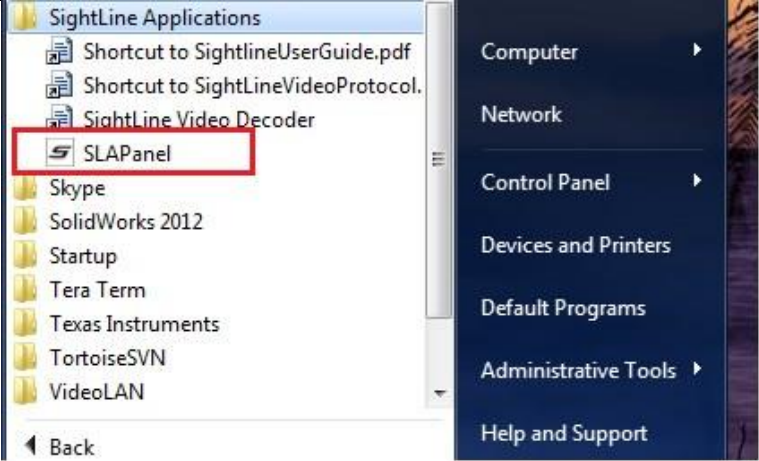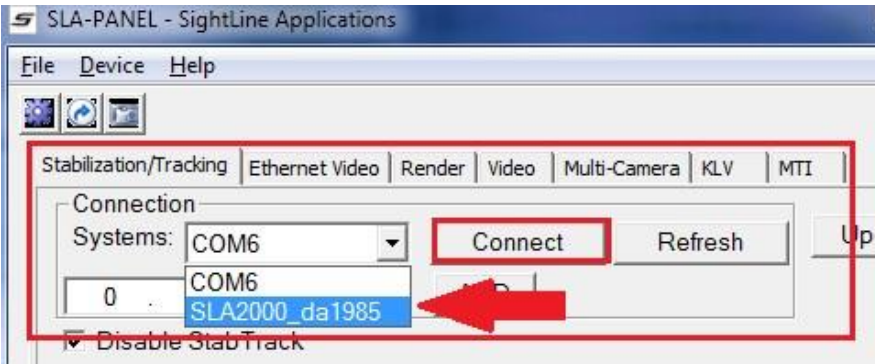
![ESD icon] **ESD – Electro Static Discharge -** We ask that you take the necessary precautions to protect against electrostatic discharge (ESD) events:

•Do not open the protective conductive packaging until you have read the following, and are at an approved anti-static work station.

•Use a conductive wrist strap attached to a good earth ground.

•Always discharge yourself by touching a grounded bare metal surface or approved anti-static mat before picking up an ESD - sensitive electronic component.

•Use an approved anti-static mat to cover your work surface.
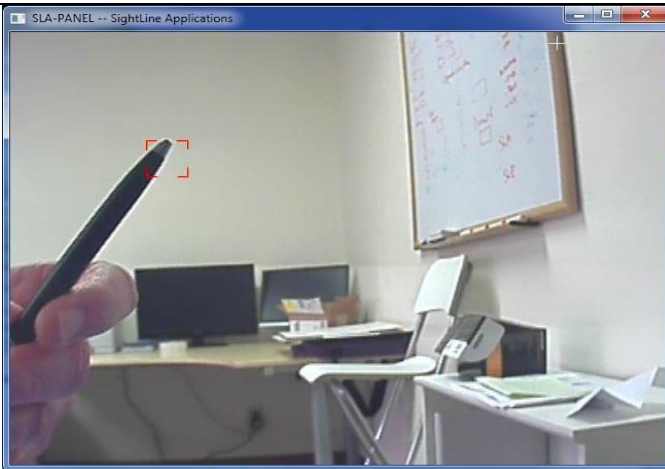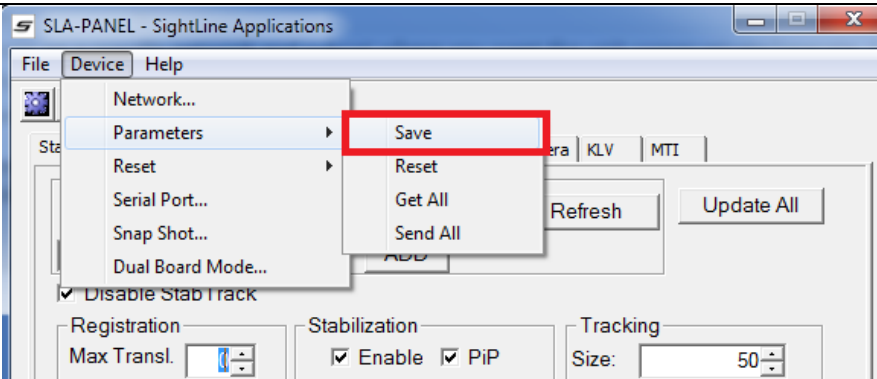
HARDWARE Setup & Connections		
Step#	Instruction	Description
4	Connect the SLA-CAB-RCA2BNC cables to VIN0 and VOUT ports on the SLA-2000-ENC	Attach the BNC side of the supplied cable to VIN0 (camera input) and VOUT (analog display) on the SLA-2000-ENC. VIN1, VIN2, & VIN3 can also be used for input video.
	Figure 4 >	
5	Connect SLA-CAB-RCA2BNC to SLA-CAM-AXXX camera	Attach the RCA side of the supplied cable to the SLA-CAM-AXXX. The camera will be either SLA-CAM-APAL or SLA-CAM-ANTSC (PAL or NTSC) as requested. Note: Note: Below pictured camera may vary.
	Figure 5 >	

6	Connect the SLA-CAB-RCA2BNC to your display monitor	Attach the RCA side of the supplied cable (attached to VOUT) to the analog video display input (example photo).
	Figure 6 >	
7	Connect SLA-CAB-ETH0 cable to the SLA-2000-ENC's Ethernet port	Attached the Ethernet cable to the RJ-45 jack port on the SLA2000-ENC. Connect the other end to your network switch or directly to the Host computer.
	Figure 7 >	
8	Connect serial cable from the Host computer to the SLA-2000-ENC	Attach your serial cable using the supplied Null Modem adapter to the SLA-2000-ENC's RS-232 serial port from the Host computer.
	Figure 8 >	

9	Connect SLA-PWR-2000 two pin adapter connector to the SLA-2000-ENC PWR port	Attach the connector so that it fits snug to the SLA-2000-ENC's two pin power port.
	Figure 9 >	
10	Plug the SLA-2000-PWR adapter into your AC power source	Ensure to use a power source that supports a range between 100v-240v at 50-60Hz.
	Figure 10 >	

11	Load SLA-Panel software	Using the Start Menu select *'All Programs/SightLine Applications'* program group. Then select the *'SLA Panel'* program. NOTE: Along with the Panel window, the display video panel window will also open, but it will initially be blank/black.
	Figure 11 >	
12	Connect to the SLA-2000-ENC from the SLA-Panel software	Under the Stablization/Tracking Tab, use the Systems dropdown menu by selecting the arrow. Select the corresponding *'SLA2000_XXXXXX'*, and then press the *'Connect'* button. This attempts to connect to the SLA-2000-ENC over the network connection.
	Figure 12 >	

13	Verify that the SLA-Panel has connected to the SLA-2000-ENC	Check the status bar for the IP address and unit type, the operating temperature, and the version of the firmware loaded on the unit. If the connection was not successful this information will not be present.
Figure 13 >		192.168.1.150 SLA2000 127°F v. 2.17 (014)
14	Select the 'Video' tab on the panel	Under the Video Mode section, use the dropdown and select Display Destination for both *'Analog & Net'*. Click *'Apply'* (above right) under the Params section.
Figure 14 >		
15	Select the *'Ethernet Video'* tab on the panel	Click on the *'USE MY IP'* button and then click the *'APPLY'* button.
Figure 15 >		

16	Video is displayed	The SLA-PANEL video display window on your computer will show the selected network stream. Now verify further that the unit is working by testing the licensed features (i.e.: stabilization, tracking, rendering, etc.).
	Figure 16 >	
17	Save your configuration	From the main menu, select *'Device/Parameters/Save'* to save the configuration settings to non-volatile memory. The parameters will be saved through power cycles.
	Figure 17 >	

CONTACTS

SIGHTLINE APPLICATIONS, INC.
1107 13TH STREET
HOOD RIVER, OREGON 97031

MAIN: 1 (503) 724-9727   info@sightlineapplications.com
SALES: 1 (541) 387-4287   sales@sightlineapplications.com
SUPPORT: 1 (503) 459-8226   support@sightlineapplications.com