SLA-2000-HDSDI Quick Start Guide

February 5, 2013

ITAR

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Overview

This document describes the software and hardware installation necessary to demonstrate operations within a laboratory setting.

For quick introduction on how to setup the hardware, you can see a short video on our web site at:

<div align="center">

http://www.sightlineapplications.com

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SLA-2000-HDSDI KIT

Included in your start-up kit you will find the following:

Part Number	Quantity	Description
SLA-2000-OEM	1	SightLine Applications On-Board Stabilization and Tracking System
SLA-2000-HDSDI	1	SightLine Applications HD-SDI adapter board
SLA-CAB-2000	1	Samtec flex cable connecting the SLA-2000-OEM and the SLA-2000-HDSDI
Optional Components		
SLA-2000-DEV	1	SightLine Applications development board
SLA-POWER	1	12V Power supply
SLA-CAB-2000	1	Samtec flex cable connecting the SLA-2000-DEV to the SLA-2000-OEM

Table 1: Hardware Part Number List

Hardware Installation

The **SLA-2000-OEM** is programmed to power up in single camera (1UP) mode. It will process the input video (**Vin0**) and show stabilized video on the analog video output (**Vout**). Command and Control with your **SLA-2000-OEM** can be done **either** through the SLA-CAB-2010 connector (<<insert>>) or Ethernet on the on the SLA-CAB-2008 . The **SLA-PANEL** provides a sample user interface (UI) for communicating with your **SLA-2000-OEM**.

For additional information:

- *SightLine Applications User Guide*

- *SLA-2000-HDSDI ICD*

- *SLA-2000-OEM ICD*

Software

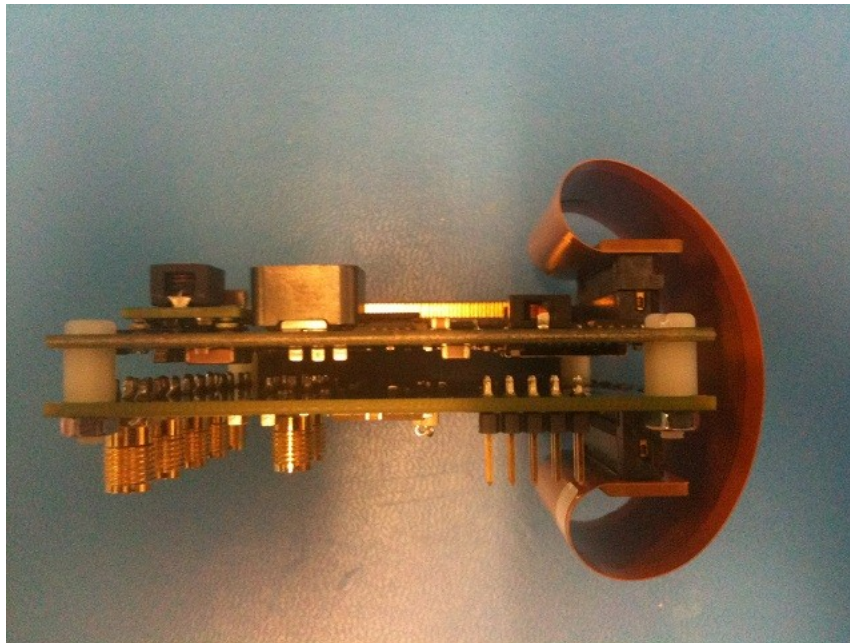The latest release of SLA-PANEL can be downloaded from:
http://www.sightlineapplications.com/Release

Illustration 1: SLA-2000-OEM (top board) connects to the SLA-2000-HDSDI (bottom)

To Connect Video Input and Output

1. Connect your 1080i camera to HDIN SMA connector.

2. Connect your 1080i capable display to HDOUT SMA connector.

To Connect via Serial Port (Optional)

To Connect via Ethernet (Optional)
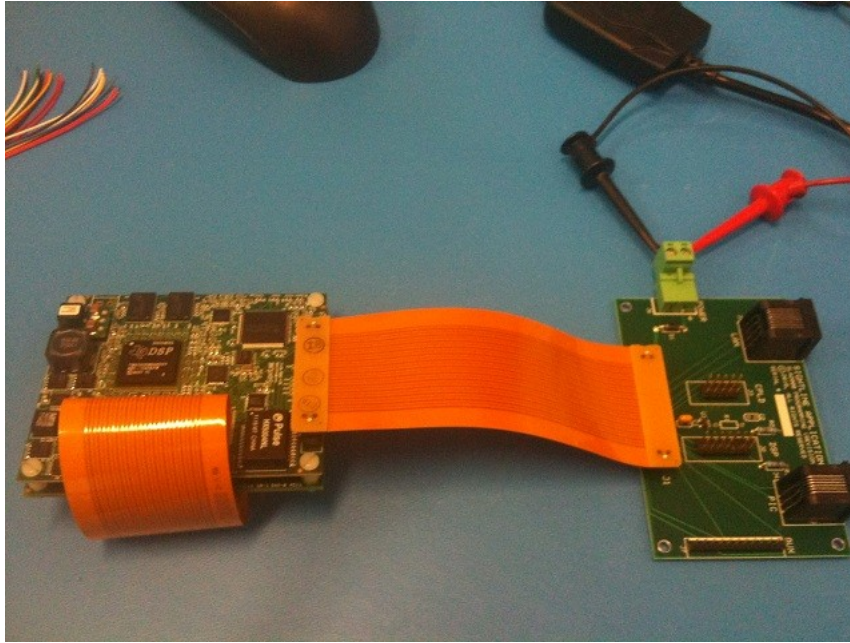
To Connect Power

SLA-2000-DEV

Illustration 2: SLA-2000-OEM (left) connected to the SLA-2000-DEV (right)

To Connect via Ethernet (Optional)

Connect your SLA-2000-DEV to an Ethernet Network Switch using a standard CAT-5 Ethernet cable.

- The SLA-2000-OEM will attempt to obtain an IP address via DHCP
- If DHCP fails, it will self assign an IP address in the format 192.168.1.ddd

Connect to SLA-2000-OEM

Use the SLA-CAB-2000 (Samtec flex cable) to connect from J1 on the SLA-2000-DEV to J1 on the SLA-2000-OEM.
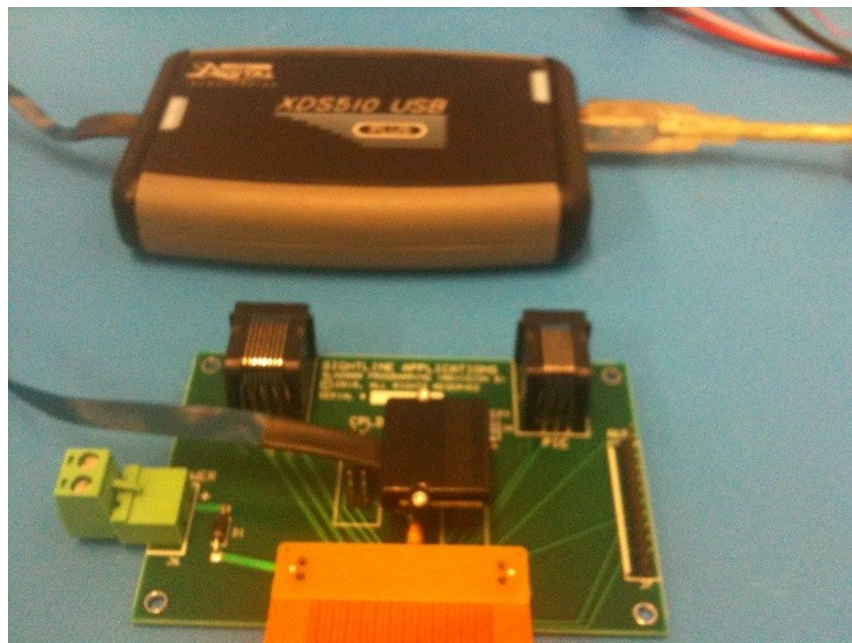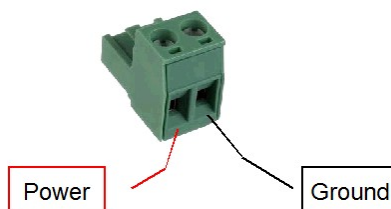
To Connect JTAG

Illustration 3: JTAG emulator connected to the SLA-2000-DEV

The SLA-2000-DEV can be used to JTAG debug the SLA-2000-OEM. The Spectrum Digital XDS510 USB Plus can be connected to (J2). A pin has been cut to help ensure proper orientation of the JTAG connector.
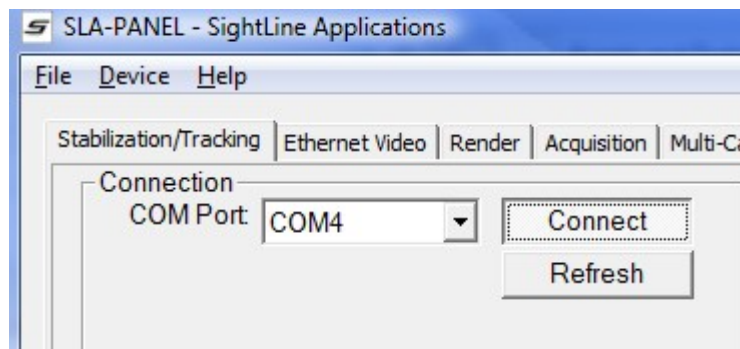
To Connect Power

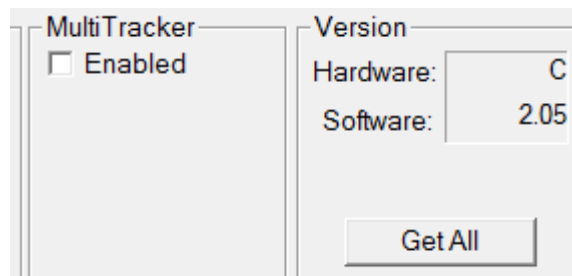Apply power using the enclosed power supply (SLA-POWER).

Software Installation

1. Download and install the latest software from the SightLine Applications web site:

   ○ http://www.sightlineapplications.com/Release

   ○ Unpack the zip file and run **setup.exe**

   ○ Follow the instructions in the installer

2. When finished, continue following these instructions.

   1. Start → All Programs → SightLine Applications → **SLAPanel**

   2. Connection → **COM Port** → Select the PC's serial port

   3. Click the **Connect** button

   4. The **Version** Group will update with the hardware and software revisions indicating successful communication.

FINISHED! You are now ready to experiment with your SLA-2000-ENC.

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