SLA-1000 Quick Start Guide

Version 1.03

March 17, 2009

Overview

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

Kit

Included in your startup kit you will find the following:

Part Number	Quantity	Description
0001-501-000001	1	SLA-1000 On-Board Stabilization and Tracking OEM board
0001-501-000002	1	Carrier board
	4	Standoffs, screws, nuts (spacers/mounting hardware)
	1	12V Power supply
	1	SLA-1000 Installation CD

Table 1: Hardware Part Number List

Hardware Installation

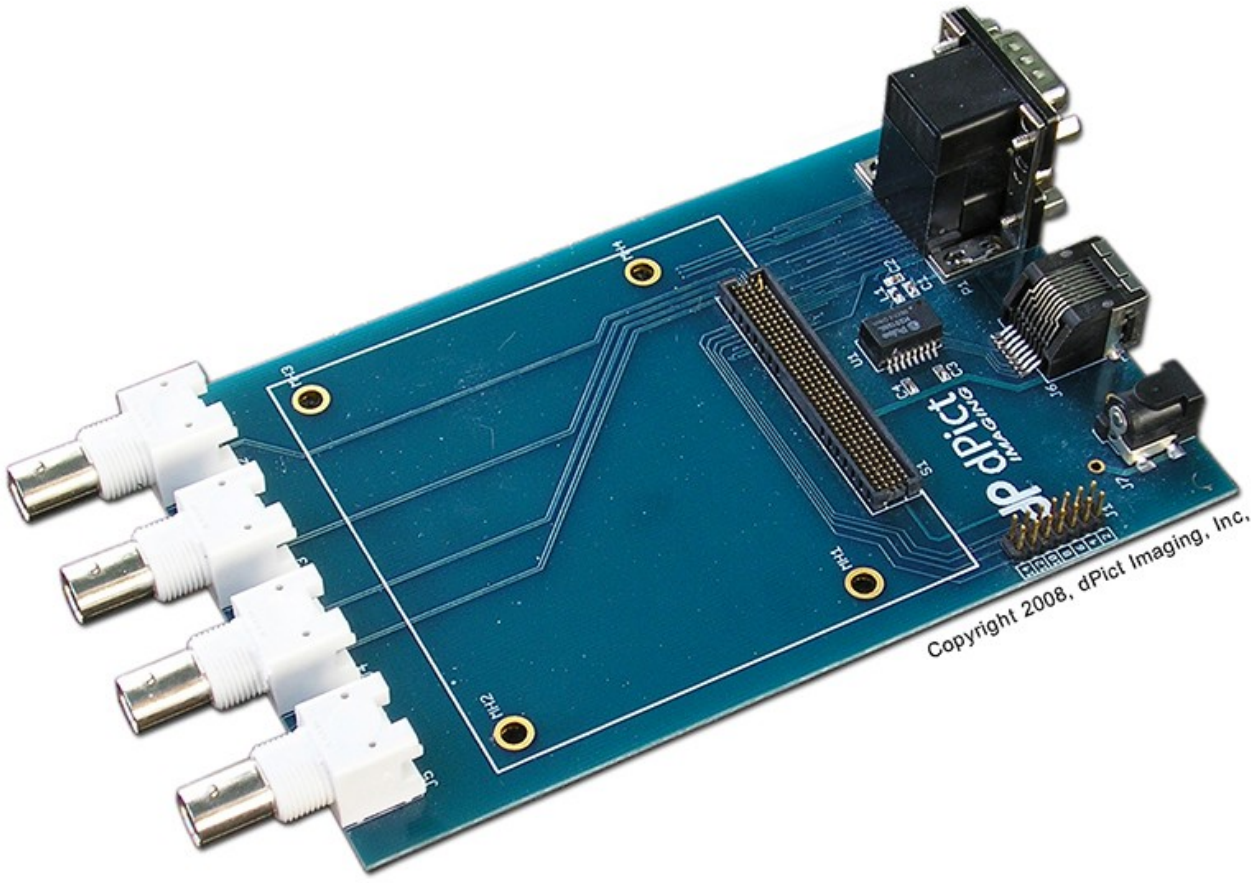

Illustration 1: Carrier board breaks out signals to standard connectors

If not already mounted, install the OEM board (PN 0001-501-000001) onto the carrier board (PN 001-501-000002) by aligning the connector with the carrier board connector labeled “S1”. Press the connectors firmly together. Install spacers and mounting hardware.

For PC-based client application test, connect NTSC video source, such as a video camera, to video input connector (**J2**). Connect NTSC monitor or other display device to video output connector (**J5**). Connect 3.3V serial connector to **lower DB-9** connector. **CAUTION: do not connect either 5V or standard RS232 cable to this connector! Connecting to non-3.3V signal levels will damage the electronics**. Connect 12V DC to power connector (**J7**).

Software Installation

Install the client application by invoking **setup.exe** from the supplied CD. Software, documentation, and other support files are automatically installed in a folder named "Program Files/SightLine Applications".

Configure Application for Desired Comm Port

Launch the shortcut to run the client application, which brings up a window as shown in Illustration 2. The client application communicates to the SLA-1000 hardware using the native command protocol described in *SightLineVideoProtocol.pdf*.

1. Select the **COM Port** from the pull down list
2. Click the **Connect** button to begin communication with the SLA-1000

The application queries the DSP for version number, and continuously displays tracking and stabilization offset information.

Move the mouse over the tracking screen (see Illustration 3) to see a cursor drawn as an overlay in the NTSC display. Click the left mouse button, to enable tracking, click the right mouse button to disable tracking. When tracking is active, the arrow keys nudge the track position.

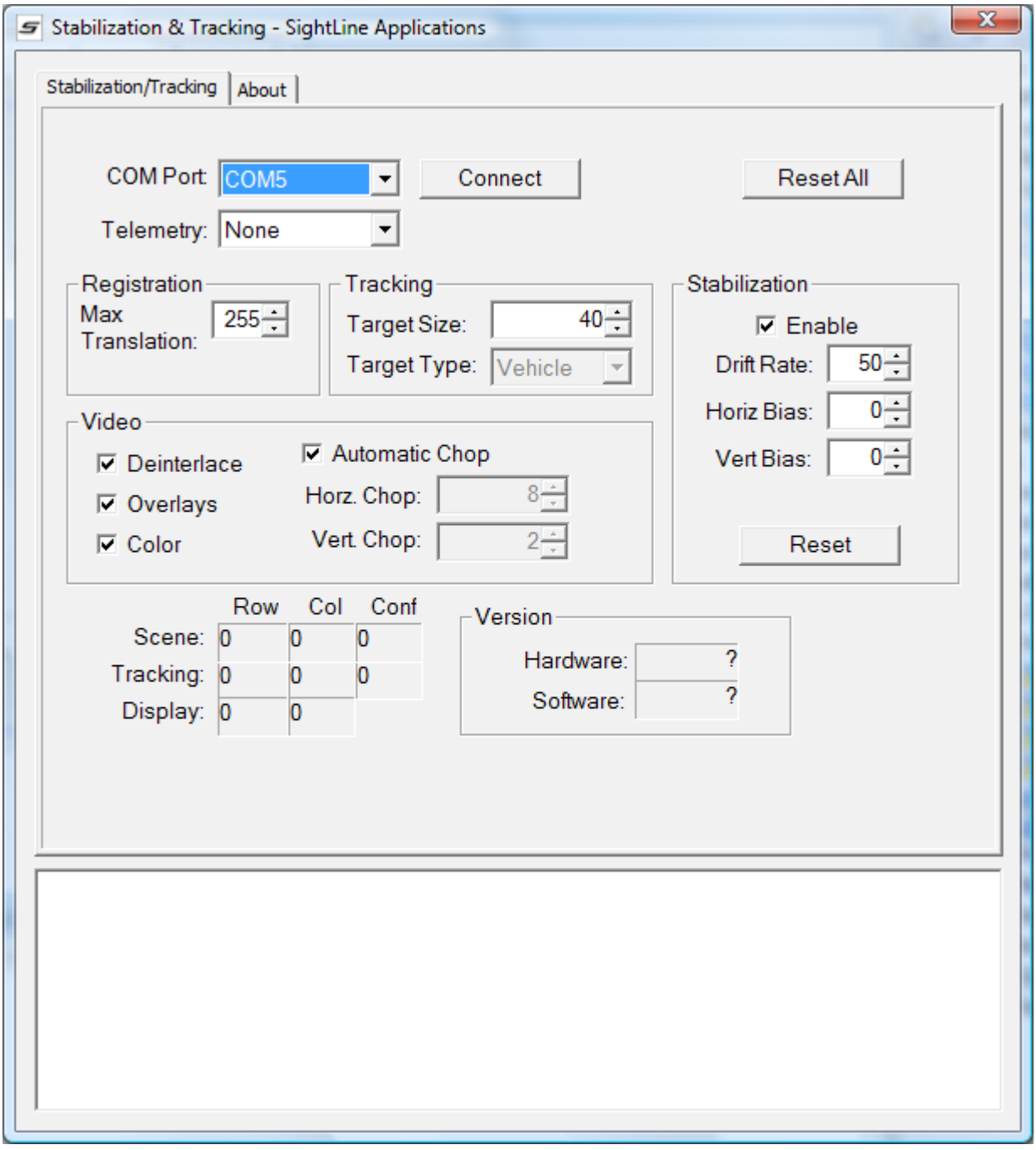

Illustration 2: Screen shot of SLA client application.

Illustration 3: Screen shot of SLA Tracking Screen.

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