



THSEU101

Quick Start Guide

Rev. 1.00

Initial Steps Overview

Thanks so much for purchasing THSEU101, Vision System Starter Kit (VSSK).

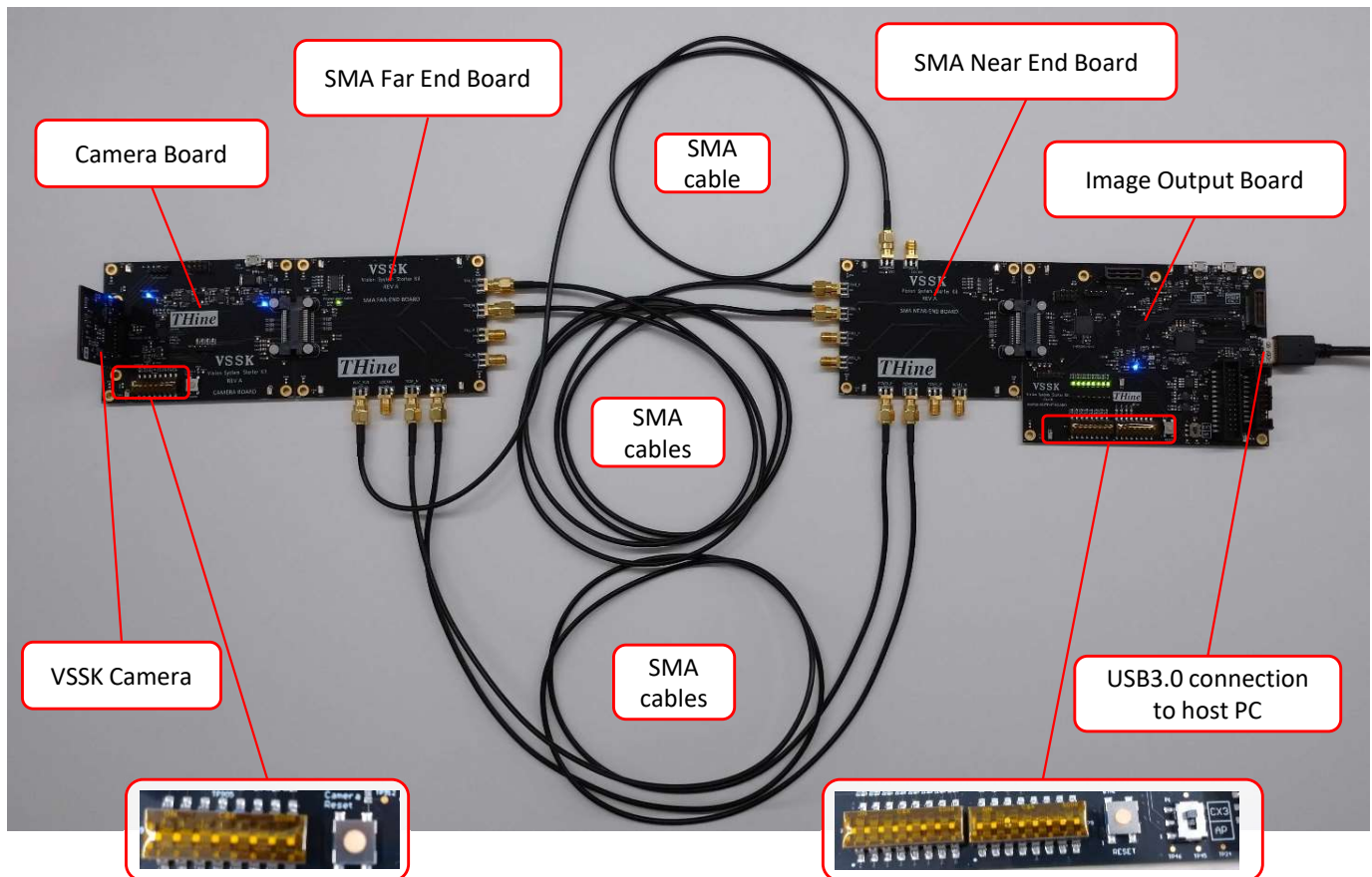
The VSSK allows designers to evaluate features of the THCV241A serializer with bi-directional transceiver working in pair with THCV242A de-serializer with bi-directional transceiver, to increase the distance between an image sensor and a video processing system over 15 meters using V-by-One® HS. The kit allows evaluating a number of cable and connector types, such as FAKRA and SMA. The goal of kit is to allow maximum flexibility for evaluating THCV241A and THCV242A, serving as a design aid.

The initial steps for the VSSK

1. Set Up Hardware in SMA Configuration or FAKRA Configuration
2. Obtain PC Software Suite
Available on request. Please contact THine personnel or request THine Solutions for support from www.thinesolutions.com/vision-system-starter-kit via “Request for Support” Button.
3. Obtain EZ-USB FX3 SDK from Cypress
4. Set Up Software

How to Start SMA Configuration

1. Connect **Image Output Board** to **SMA Near End Board**.
2. Connect **SMA Far End Board** to **Camera Board** to **VSSK Camera**.
3. Connect **SMA cables** From the **Far End board** to the **Near End Board**.
4. Configure DIP switches on the **Camera Board** and the **Image Output Board** as shown on the diagram.
5. Connect **USB3.0 cable** from the **Image Output Board** to Host PC. In Windows Device Manager this device will appear under a list of Imaging Devices.
6. If not already installed, install the latest version of Microsoft Visual C++ 2015 Redistributable.
7. Obtain **PC Software Suite** from THine Solutions.
8. Extract package contents into a directory which the application will run from and launch the host application.
9. In host application, under Devices menu select the Vby1MIPI camera.
10. Observe video from the camera in Vby1Viewer application window.



How to Start FAKRA Configuration

1. Connect **Image Output Board** to **FAKRA Near End Board**.
2. Connect **FAKRA Far End Board** to **Camera Board** to **VSSK Camera**.
3. Connect FAKRA cable From the **Far End board** to the **Near End Board**.
4. Configure DIP switches on the **Camera Board** and the **Image Output Board** as shown on the diagram.
5. Connect **USB3.0 cable** from the **Image Output Board** to Host PC. In Windows Device Manager this device will appear under a list of Imaging Devices.
6. If not already installed, install the latest version of Microsoft Visual C++ 2015 Redistributable.
7. Obtain **PC Software Suite** from THine Solutions.
8. Extract package contents into a directory which the application will run from and launch the host application.
9. In host application, under Devices menu select the Vby1MIPI camera.
10. Observe video from the camera in Vby1Viewer application window.

