

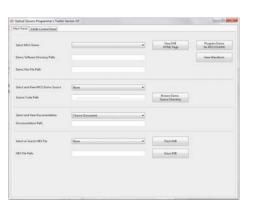
## OPTICAL SENSOR BOARD QUICK-START GUIDE

1

Go to the web address below to download and install the Si114x Programmer's Toolkit (Windows 7 only):

http://www.silabs.com/products/sensors/ Pages/optical-sensor-software.aspx Once installed, use the Start Menu to launch the Launcher application

Start >> All Programs >> Silicon Labs >> Si114x Optical Sensor >> Launcher



3

Plug in the Evaluation Board at this time. Note that some EVBs (such as the IRMFB) will require both cables to be plugged in.

Use the pull-down menu on 'Select MCU Demo' to select the EVB and the Demonstration.

Click on the 'View EVB HTML Page' to confirm that you have the right EVB.

IRSlider2-EK Slider Demo

c:\SiliconLabs\Optical\_Sensors\Si114x\source\slider\slid

Select MCU Demo

Demo Hex File Path

Click on 'Program Demo (to MCU Flash)'. This will download an Intel Hex file onto the EVB MCU.

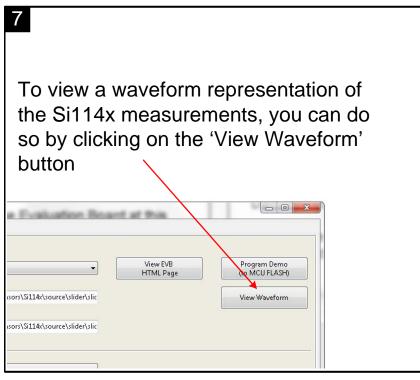
Once the EVB has been updated, and depending on the Demo, LED lights on the EVB will begin to illuminate.

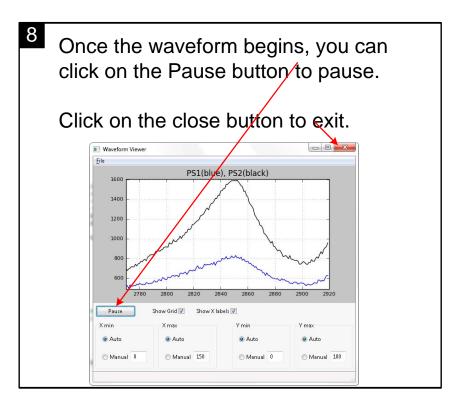
Once the firmware has been updated, the dialog box shown below should appear.

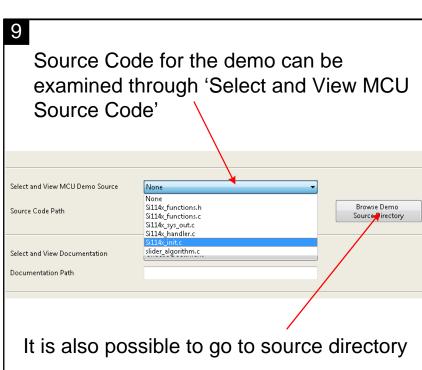


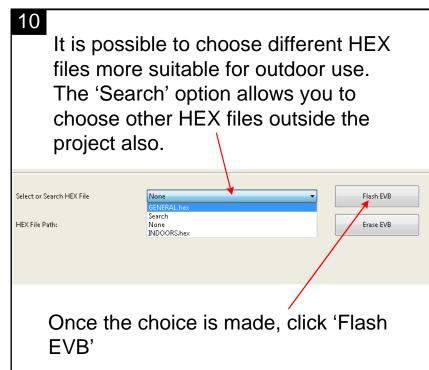
If your EVB has two cables, remove the DEBUG cable at this time.

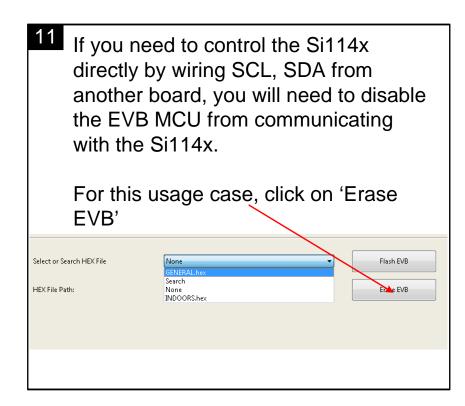
For more information, including supporting software and documentation, please visit the Silicon Labs Si114x Product Page located at: http://www.silabs.com/products/sensors/infraredsensors/Pages/Si114x.aspx.

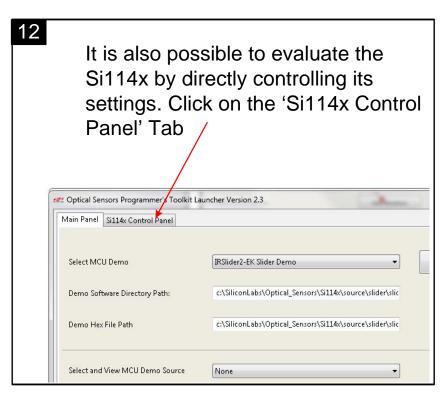








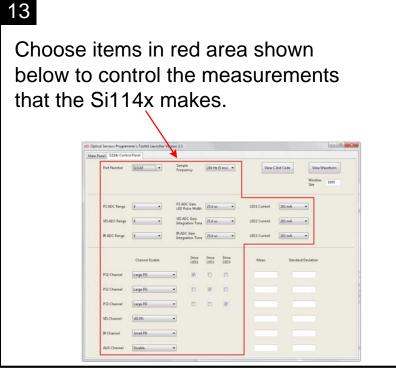


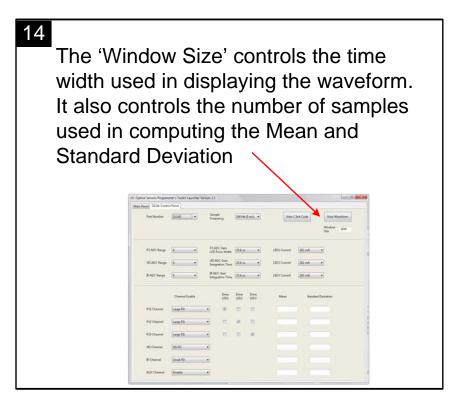


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SILICON LABS

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Click on the 'View Waveform' button to start the waveform viewer. Note that the mean and standard deviation is computed based on the window displayed by the waveform viewer

The waveform viewer waveform is computed based on the window displayed by the waveform viewer

Once the waveform begins, you can click on the Pause button to pause.

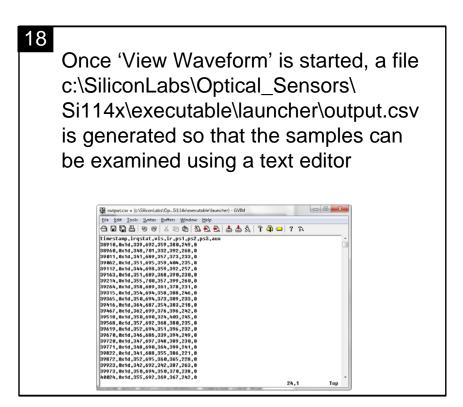
Click on the close button to exit.

PS1(blue), PS2(black)

PS1(blue), PS1(blue), PS2(black)

PS1(blue), PS1(b

The C initialization source code can be examined (then cut-pasted) by clicking on 'View C Init'. This code assumes use of functions provided by Si114x\_functions.c and Si114x\_functions.h



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