

F40 SDK Quick Start Guide

Step 1: Download and Install Drivers at [FairchildImaging.com/software](https://www.fairchildimaging.com/software)

The customer SW package includes the following elements:



The Fairchild F40 API is built with Microsoft Visual Studio 2015 so the user must install the MS Visual Studio Runtime Executable if they want to run our SDK. Installation files for MS Visual Studio are in the vs-redistributables folder.

Right click on the "Install_redist" batch file and choose "Run as administrator".

This pop-up will appear:

If the computer is a 32-bit computer, it is a x86 type. If it is a 64-bit computer, it is a x64 type. The particular type of computer can be determined by typing "System Information" into the windows Search box.

For example:



Choose the 2015 redistributable from the list to the right.

Driver installation steps:

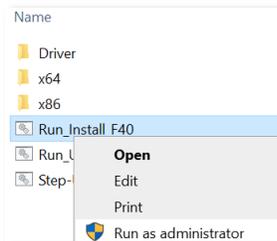
1) To install the driver for F40, locate the file "Run_Install_F40" batch file in the software provided, typically under a folder called "Driver 1.7.0":



```

C:\Windows\System32\cmd.exe
Success: Administrative permissions confirmed.
-----
PRESS 1,2,3,4,5,6,7. 8 to exit.
-----
1- Install dotnetfx35
2- Install 2005 vs-resdistributable x64
3- Install 2005 vs-resdistributable x86
4- Install 2010 vs-resdistributable x64
5- Install 2010 vs-resdistributable x86
6- Install 2015 vs-resdistributable x64
7- Install 2015 vs-resdistributable x86
8- exit

Type option:
  
```



- 2) Right click "Run_Install_F40" and choose "Run as administrator":
- 3) A popup appears asking if you will allow the software to make changes. Click "Yes".
- 4) Another popup appears looking like this:

```

C:\Windows\System32\cmd.exe
ProductType is 1
IsClientOS is equal to true
OSARCH is x64
OS Version is 10.0 and OS Name is Win10
Microsoft PnP Utility

Adding driver package: fif40.inf
Driver package added successfully.
Published Name: oem131.inf
Driver package installed on device: USB\VID_5328&PID_20BF\000000004BE

Total driver packages: 1
Added driver packages: 1

+++ Now can use device. +++

Press any key to continue . . .
  
```

Press any key (such as "Enter") to make the popup disappear. The driver has been successfully installed.

Step 2: Install the F40 SDK hardware

The F40 SDK hardware shipped to the customer will include:



- 1) The F40 capsule containing the electronic board.
- 2) A 2-meter-long USB cable (USB-C male at both ends, functionally symmetrical at both ends and no preferred orientation at each end) for connecting the F40 to the host computer. One end of the cable is shown on the right.

The F40 is guaranteed to work with this cable when the host USB port is type C, USB3.X compliant (3.0, 3.1, or 3.2), and is capable of sourcing 5 V at 1.5 Amps.

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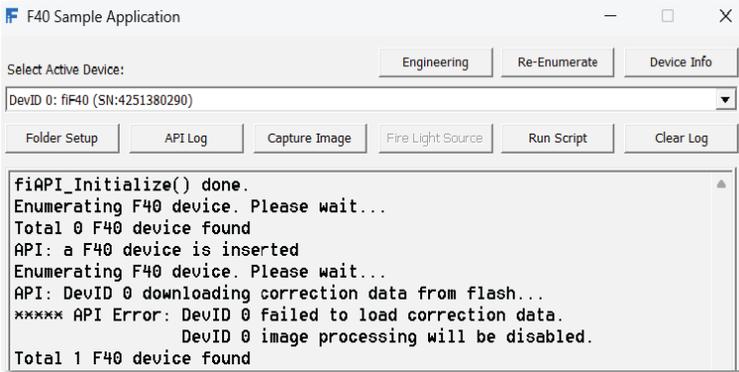
Step 3: Operation of the Sensor using f40SampleApp

1) The “f40SampleApp” software can now be used to take an image.

Go to the “SDK” folder in the customer software package. The f40SampleApp software is in the path SDK/bin/x64/Release. Click on the “f40SampleApp.exe” icon to launch the application.



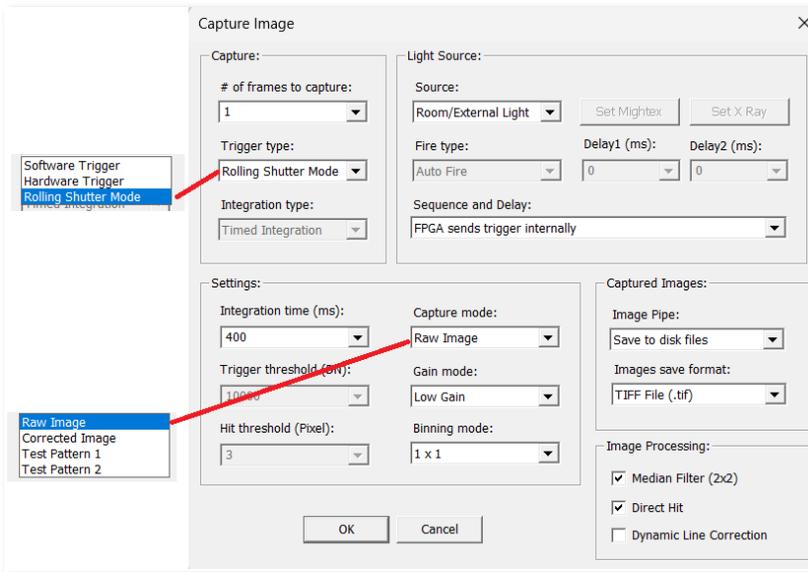
2) This pop-up will appear:



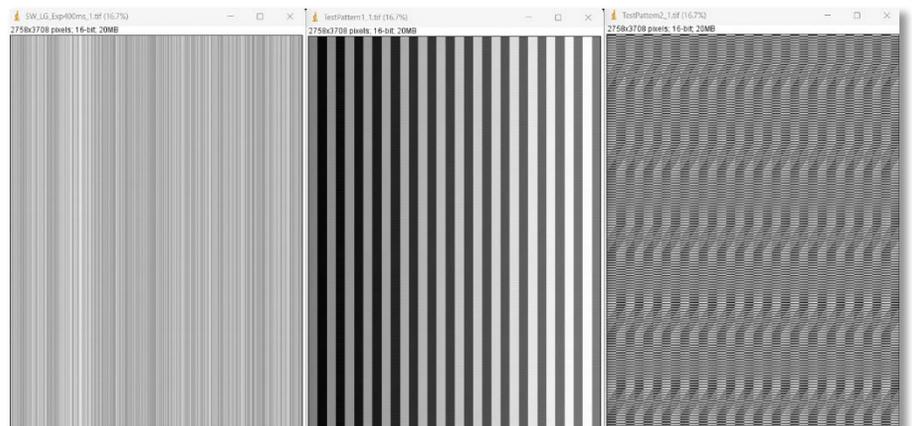
When selecting the “Capture Image” button, the pop-up to the left appears.

Select only “Software trigger” or “Rolling Shutter Moder” from the Trigger Types drop down menu. (The F40 SDK does not contain a pixel array that can be triggered under x-ray, so “Hardware Trigger” is irrelevant in the F40 SDK)

“Capture Mode” has “Raw Image” and two test patterns as possibilities. “Corrected Image” is not a possibility since there is no pixel array to be corrected.



3) Sample Images. Here are 3 sample images placed side by side: a Raw image, Test Pattern 1, and Test Pattern 2.



Please contact TechSupport@fcimg.com for any questions. | www.FairchildImaging.com