SRT/VSRT Executable Software Installation Instructions for Windows 10 - 64 bit

General installation steps:

1. Install the USB frame grabber drivers
2. Install the SRT/VSRT software
3. Adjust your srt.cat configuration file

1) Install the USB frame grabber drivers (VSRT only)

Note: If you have an SRT, not a VSRT, the USB frame grabber driver instructions do not need to be followed.

VSRT Users: Please do not connect the USB frame grabber device to the computer until instructed to do so.

Important: The framegrabber driver installation *will fail* on **Windows 8** and **Windows 10** *unless driver signature verification is disabled*. The below steps for initial driver installation may only be accomplished if the computer is booted with driver signature verification disabled.

Disable driver signature verification:

- http://www.howtogeek.com/167723/how-to-disable-driver-signature-verification-on-64-bit-windows-8.1-so-that-you-can-install-unsigned-drivers/ [http://www.howtogeek.com/167723/how-to-disable-driver-signature-verification-on-64-bit-windows-8.1-so-that-you-can-install-unsigned-drivers/]
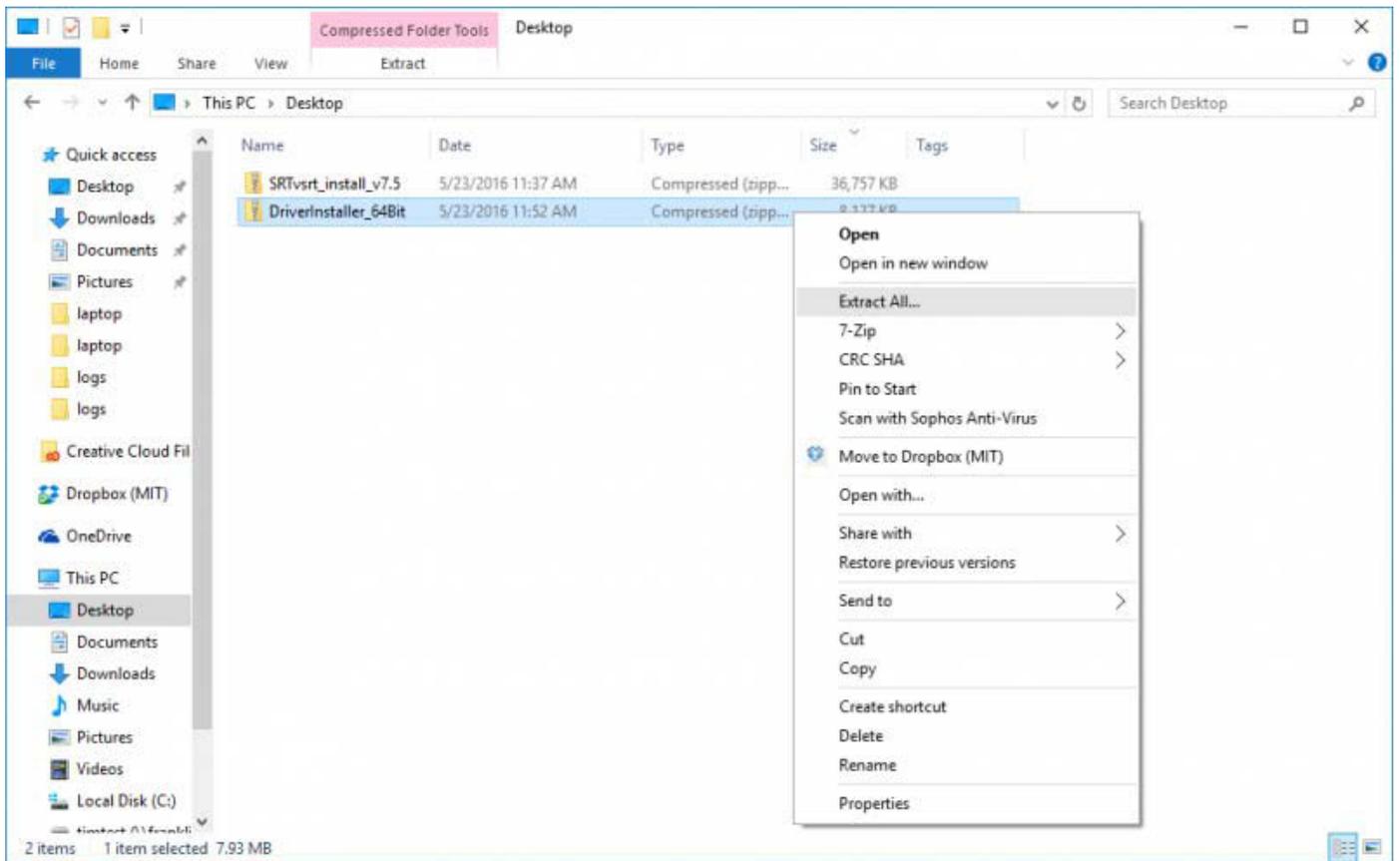
Download the USB frame grabber drivers here:

- http://www.haystack.mit.edu/edu/undergrad/srt/SRT%20Software/DriverInstaller_64Bit.zip [http://www.haystack.mit.edu/edu/undergrad/srt/SRT%20Software/DriverInstaller_64Bit.zip]
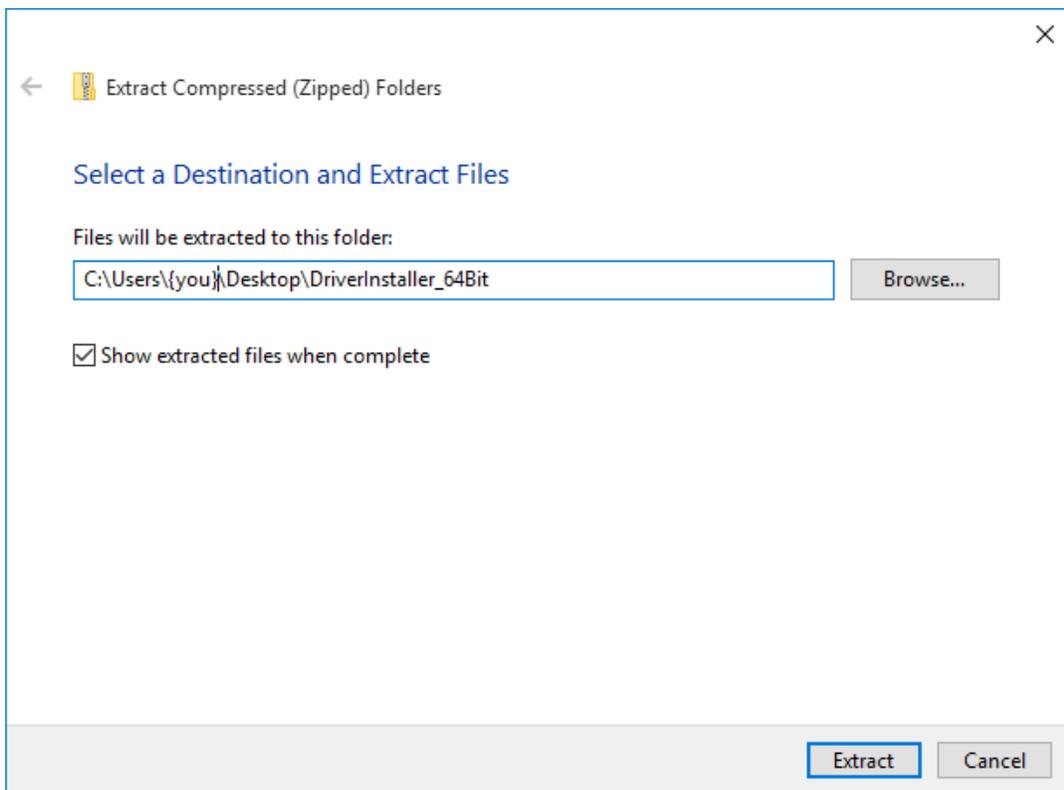
Please disconnect from the Internet before continuing with the below steps – this is to prevent the system from attempting to load device drivers for the USB frame grabber from Windows Update.

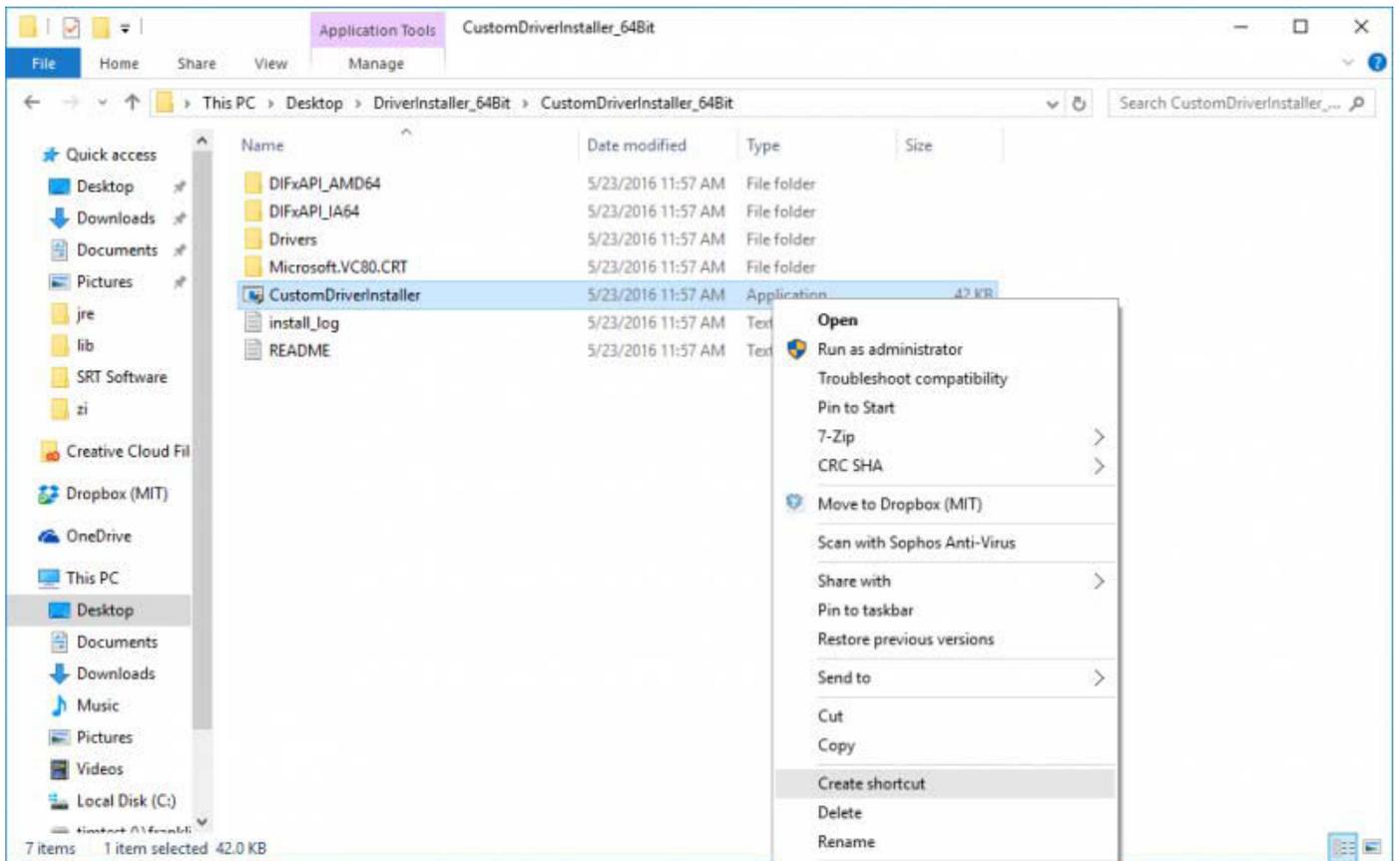Extract the USB frame grabber drivers:

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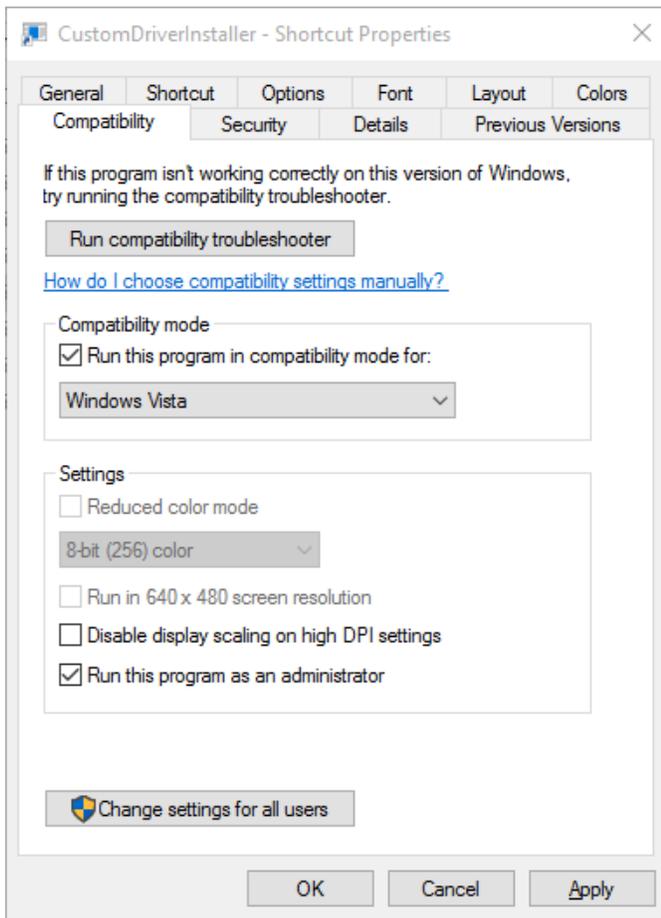Choose to extract the folder to "C:\Users\{you}\Desktop\DriverInstaller_64Bit"

Click "Extract"

Right-click on the extracted CustomDriverInstaller application, and select "Create shortcut"

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Right-click on the "CustomDriverInstaller - Shortcut" shortcut you created, and select "Properties"

- On the "Compatibility" tab, select "Change settings for all users"
    - On the "Compatibility" tab, select "Run this program in compatibility mode for Windows Vista"
    - On the "Compatibility" tab, select "Run this program as an administrator"

- On the "Shortcut" tab, edit the "Target" field to append "**EB1A 2820 icaste**" (no quotes)
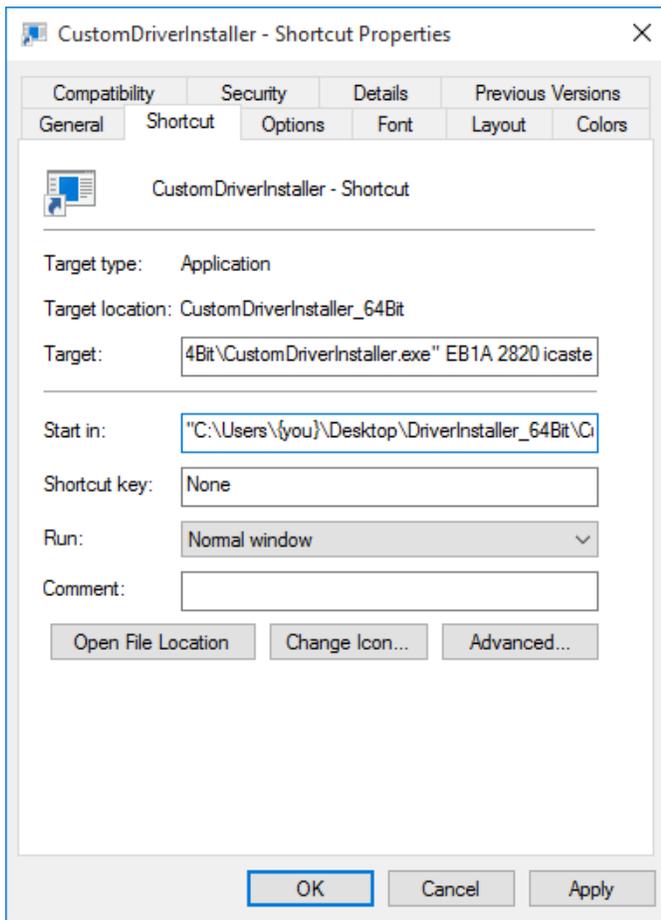
Use the values corresponding to your USB frame grabber.

- VVVV = USB VID
- PPPP = USB PID
- MyName = friendly name of your choice

Arguments can be found by checking the hardware ID in Device Manager.

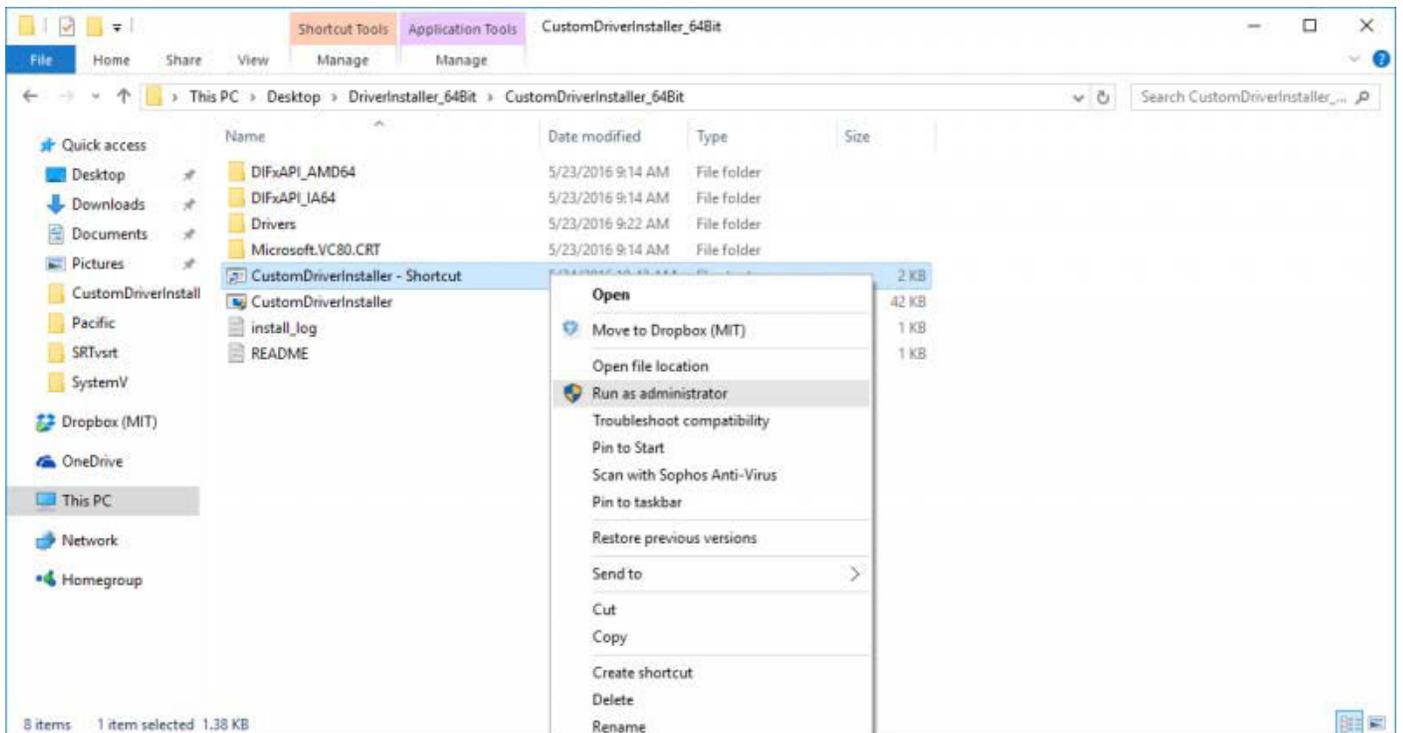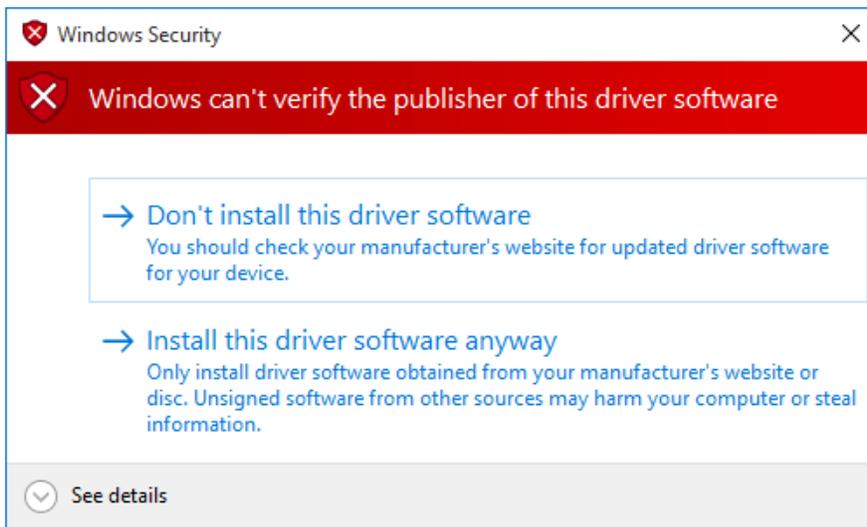Our USB frame grabbers use **"EB1A 2820 icaste"**

Click "OK".

Once you are disconnected from the Internet, please:

- Connect your USB frame grabber device to the computer
- Right-click on your "CustomDriverInstaller - Shortcut" shortcut and select "Run as Administrator".

When prompted, select "**Install this driver software anyway**"

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Review the install_log file

Please review the install_log file to ensure that the driver installation succeeded.

Below is a log file from a successful installation:

```
Log File Opened
JCommUSB CustomDriverInstaller Initialized
Prelim. test passed for VID:EB1A, PID:2820, Name:icaste
Get OS Version Success
Detected OS Major Ver 6, Minor Ver 0, Processor Type %u
Detected WinServer2008R1 or WinVista
Detected AMD64 on WinServer2008R1 or WinVista
Selecting DIFxAPI for AMD64
infCopier started with params:
OS Version: WinServer2008R1_WinVista
USB VID: EB1A
USB PID: 2820
USB Device Name: icaste
Platform: amd64
WDF Major Version: 1
WDF Minor Version: 7
Calling Driver Install
Please wait, this process may take several minutes.
This Window will close when the operation is complete.
Working........
Driver Install Return Code = 0
REBOOT NOT REQUIRED
Install Success
```

> **Note:** You may reconnect your computer to the Internet once the USB frame grabber drivers have been successfully installed.

c) Framegrabber Driver Installation Troubleshooting
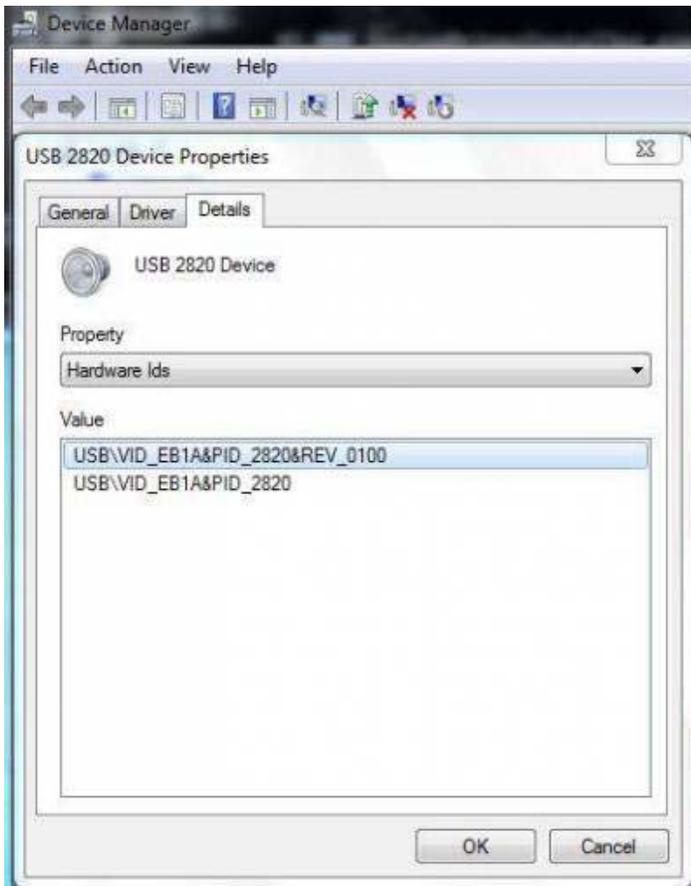
Check the install_log file.

If you received an error, Driver Signature Verification may not have been disabled as per the above. Please also check "Compatibility Mode" and "Run As Administrator" settings. Lastly you'll want to verify device PID and VID numbers, and ensure that another driver isn't loaded for the USB frame grabber device.

Disabling driver signature verification persists only for a single boot – you'll want to boot with driver signature verification disabled and install the USB frame grabber drivers from that environment without rebooting again. *This is a one-time setup step – once installed, the USB frame grabber drivers will function even with driver signature verification enabled.*

If your USB frame grabber is claimed by another driver, you may be able to remove the other driver via this process:

- https://msdn.microsoft.com/en-us/library/windows/hardware/ff553572(v=vs.85).aspx [https://msdn.microsoft.com/en-us/library/windows/hardware/ff553572(v=vs.85).aspx]

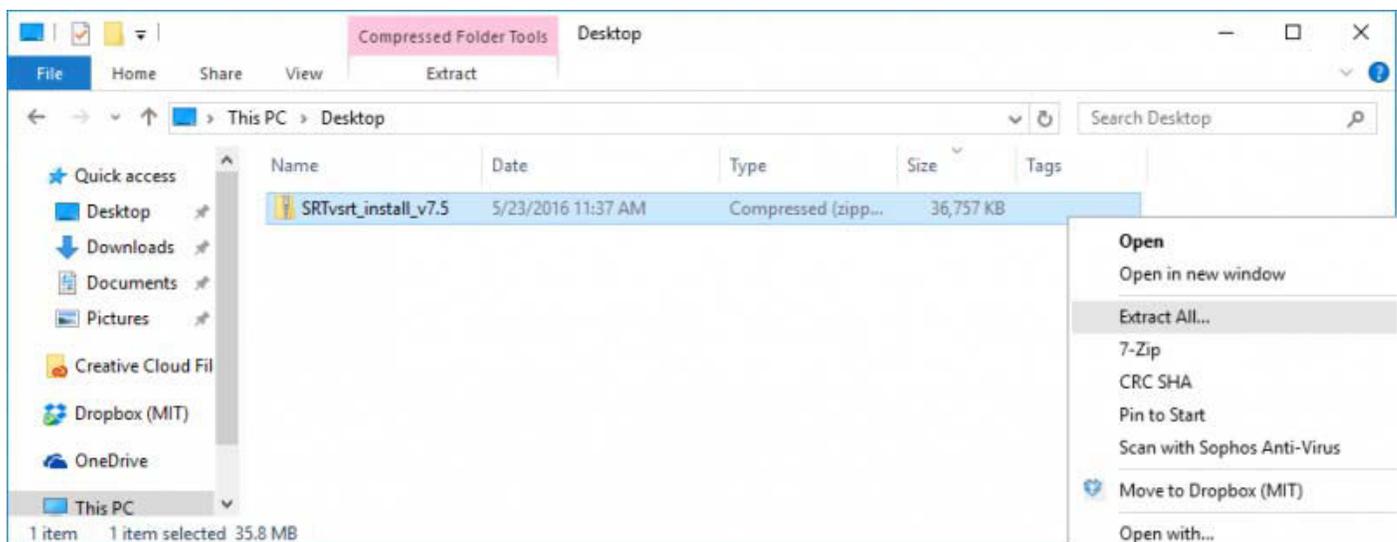Device Manager screenshot (to identify VID and PID):

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2) Install the SRT/VSRT Executable Software

Download the latest version of *SRTvsrt_install_vx.x.zip* and save it to your Desktop.

- http://www.haystack.mit.edu/edu/undergrad/srt/SRT%20Software/SRT_software_exec.html [http://www.haystack.mit.edu/edu/undergrad/srt/SRT%20Software/SRT_software_exec.html]

Right click on the downloaded .zip file and select "Extract All..."

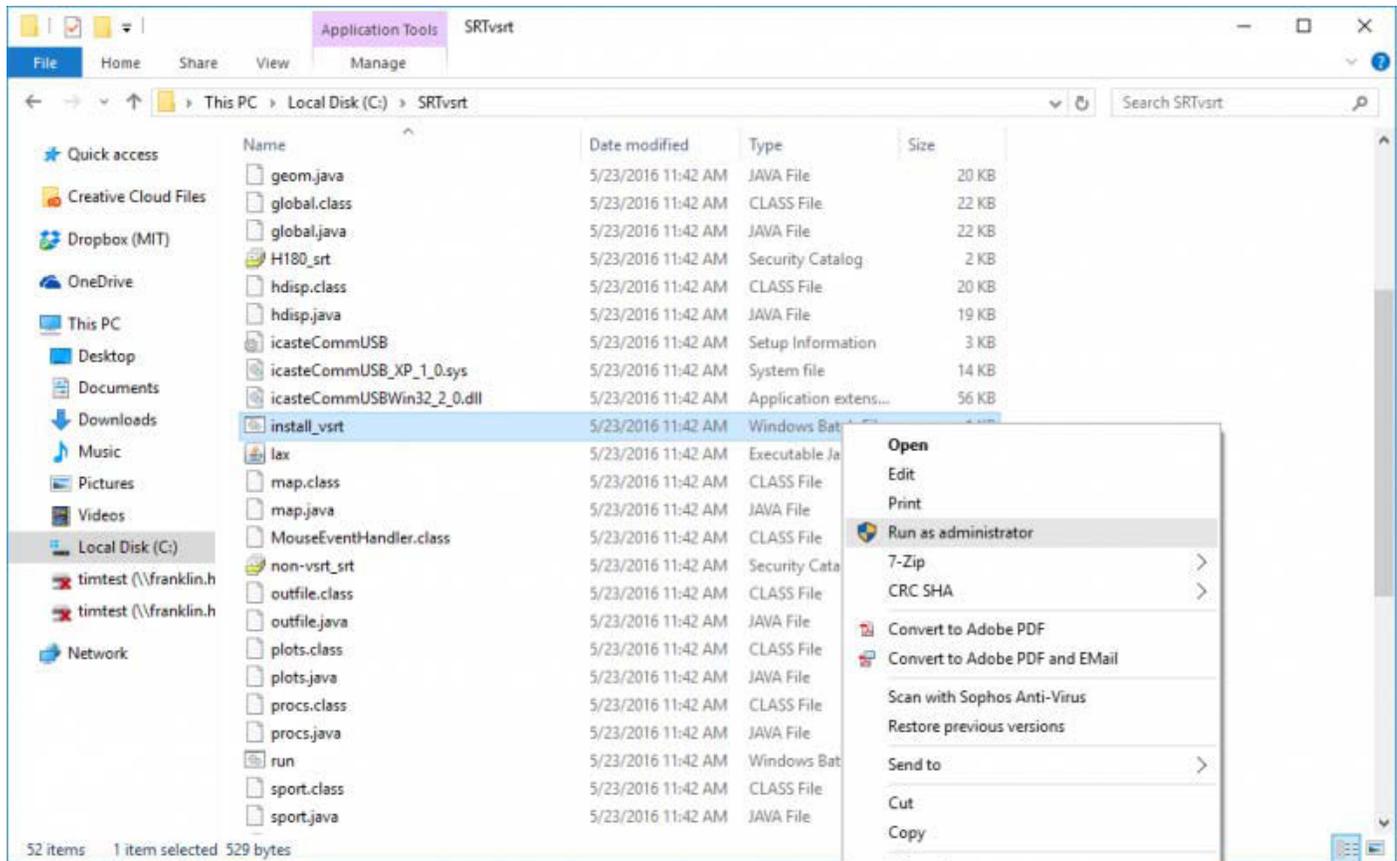**When prompted to "Select a Destination and Extract Files", extract the files to a convenient location**

When finished, move the SRTvsrt folder to C:\SRTvsrt.

> **Note:** The extracted SRTvsrt folder must be placed at **C:\SRTvsrt** for compatibility reasons.
>
> *Please do not place the folder under C:\Program Files\.*

- Navigate to **C:\SRTvsrt**, right-click on the "**install_vsrt**" icon (may be listed as install_vsrt.bat), and then select "**Run as administrator**"

This will create a shortcut on your Desktop.

The basic software installation is now complete; you may now close any open windows.

3) Configure Your Copy of the SRT/VSRT Executable Software

The primary configuration file for this software is *C:\SRTvsrt\srt.cat*.

There are a number of variations of the srt.cat file included in the above software download. Please choose one appropriate to your setup, copy it to C:\SRTvsrt\srt.cat, and then edit as necessary. (The srt.cat configuration file may be edited in Notepad.)

> - If you have the SRT only (1.4 GHz reciever, 2.3 meter dish), use the the the .cat file appropriate to your particular mount. If you have a Cassi Mount you may use the Cassi_srt.cat file in the ver 07.5 install package.
> - If you wish only to operate the 2.1 meter SRT, install the SRT/VSRT software then replace the srt.cat file with the non-vsrt_srt.cat file.
> - Be sure to uncomment the proper keywords and Az/El LIMITS for your mount)

A current *srt.cat* file is available for download here:

- http://www.haystack.mit.edu/edu/undergrad/srt/SRT%20Software/srt.cat
  [http://www.haystack.mit.edu/edu/undergrad/srt/SRT%20Software/srt.cat]

INSTALL INSTRUCTIONS

For WINx64:   Use Package CustomDriverInstaller_64Bit

Run the CustomDriverInstaller.exe as follows:
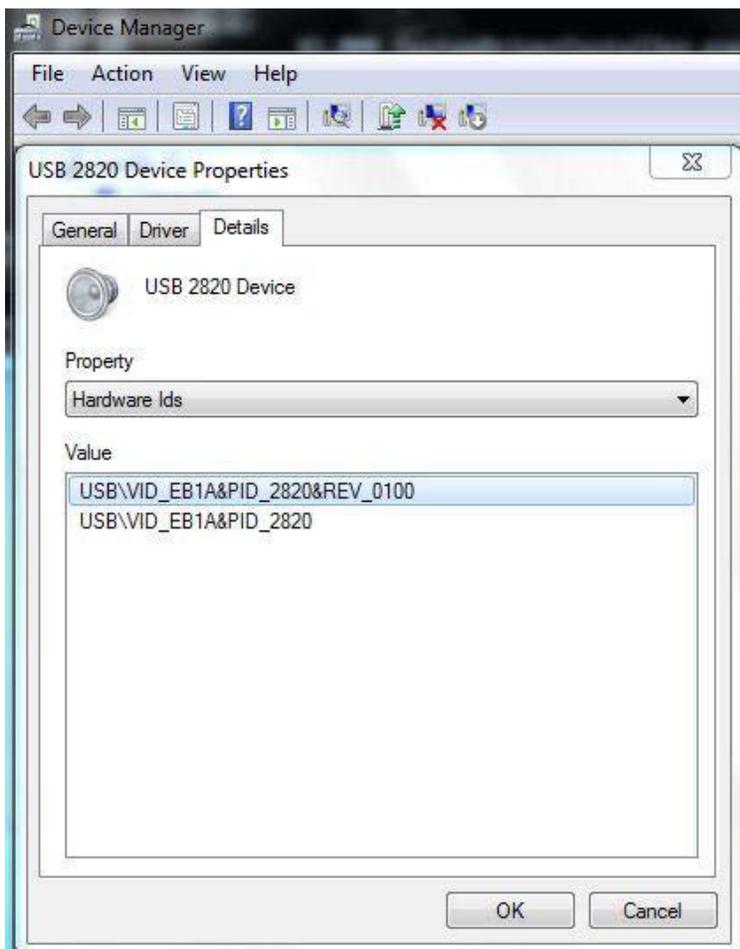
CustomDriverInstaller.exe VVVV PPPP MyName

Where:

VVVV = USB VID

PPPP = USB PID

MyName = device friendly name of your choice

Arguments can be found by checking hardware Id in system control panel:

VSRT Install Instructions for Windows XP

Step 1.

Download the latest version of SRTvsrt_install_vx.x.zip at http://www.haystack.mit.edu and save it on your Desktop.
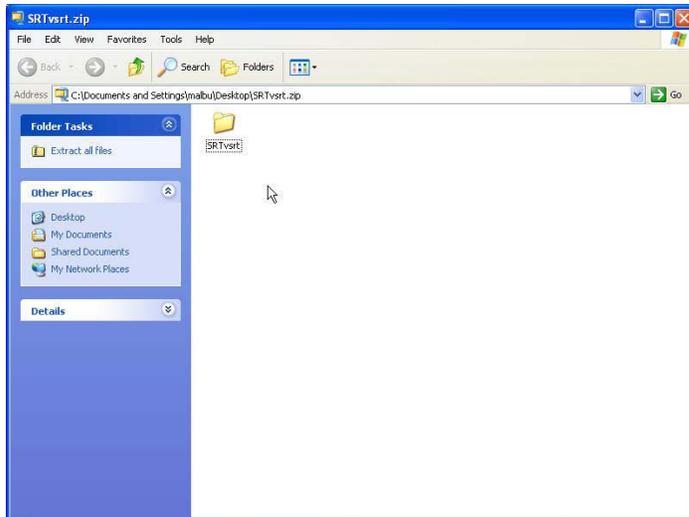
Step 2.

Open the SRTvsrt_install_vx.x.zip file on your Desktop by right-clicking on the icon and choosing "Open With" then "Compressed (zipped) Folders as seen below.

Figure 1.

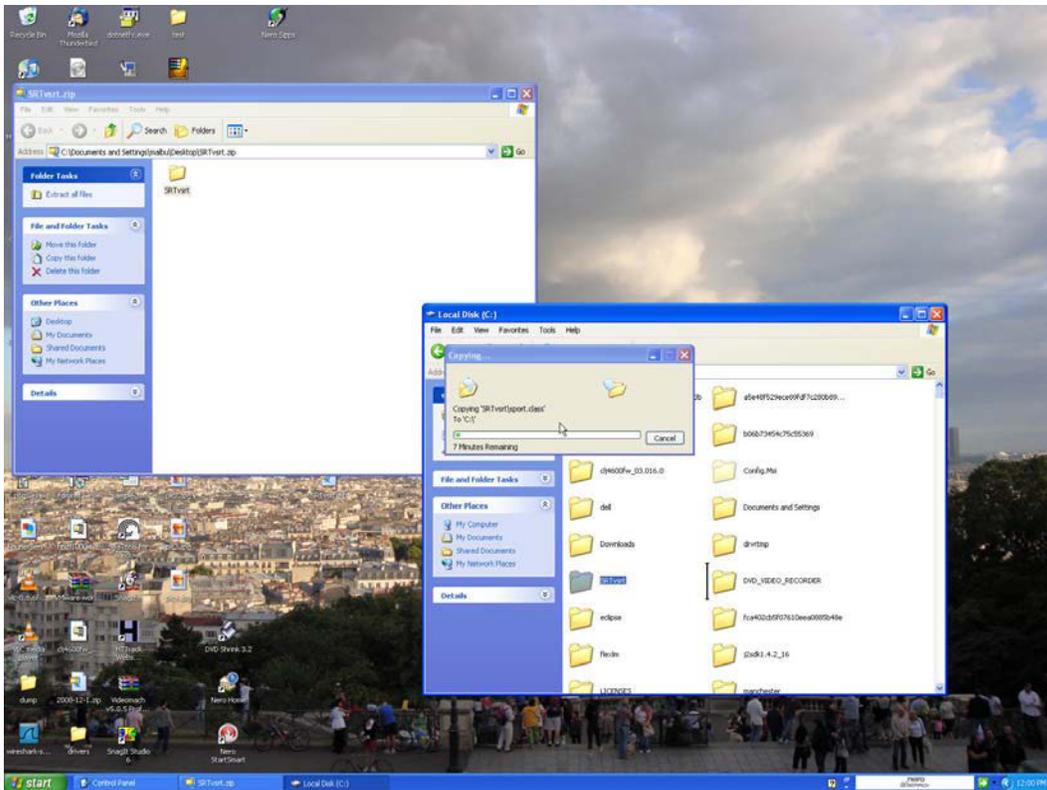A window will open showing the SRTvsrt folder as shown below:

Figure 2.

Step 3.

Now we must copy the SRTvsrt folder to the Local Drive (C:)

- Open another window by going to "My Computer" and double clicking on the "Local Disk (C:) icon.
- Now, click back on the SRTvsrt window you opened in Step 2.
- Right click and hold on the SRTvsrt folder in the SRTvsrt window and drag it to the Local Disk (C:) window. You can release anywhere in the Local Disk folder <u>EXCEPT</u> on top of another folder.
- When you release the right click you will get an option "Copy here". Click this and you will get a screen as seen below:

Figure 3.

(**Warning:** This may take a while but this is normal.)

Step 4.

NOTE: If you have an SRT, not a VSRT, the USB Driver instructions do not need to be followed.

Plug the iCaste cable (seen below with arrow pointing to it) into an empty USB slot.

Figure 4.
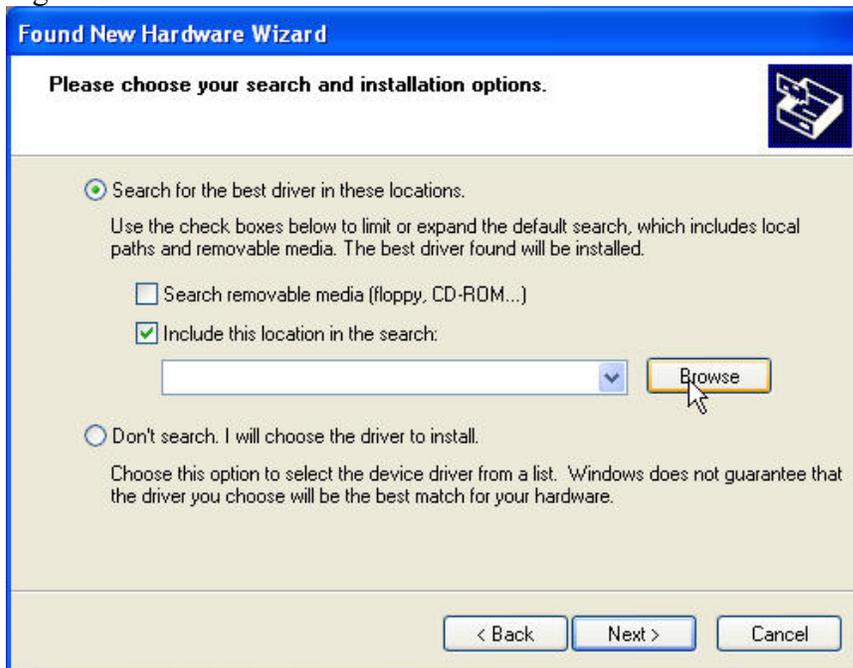
A dialog box will appear as seen below.

Figure 5.

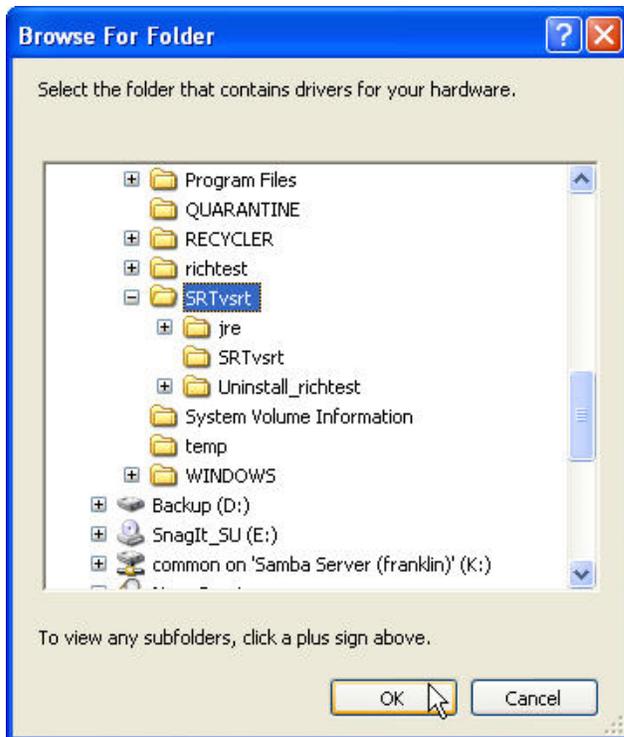Click "No, not this time" and then "Next". On the next screen,

Figure 6.

Click "Install from a list or specific location" and then "Next" which will bring you to this screen:
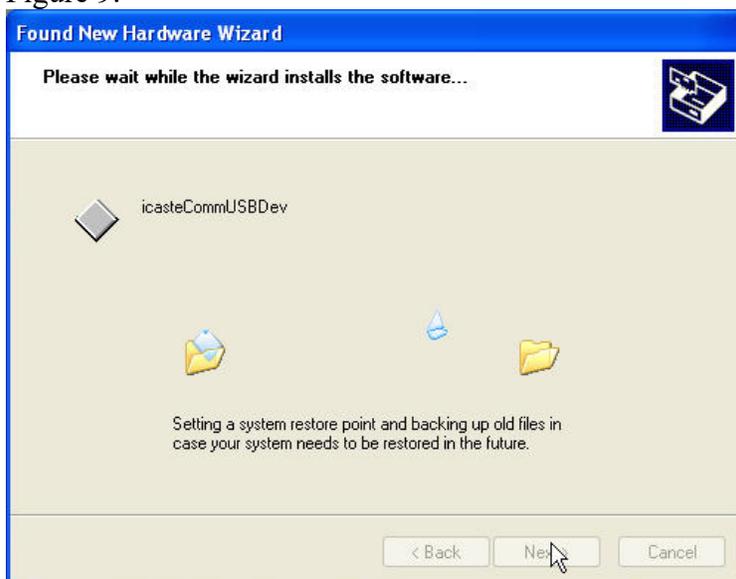
Figure 7.

Check the "Include this location in the search" box and then hit "Browse" bringing up the following window:

Figure 8.

- Click once on "My Computer"->"Local Drive (C:)"
- Scroll down and click once on the SRTvsrt folder then hit "OK".
- You will arrive once again at Figure 7. Hit "Next". You should get a progress screen that looks like the following:
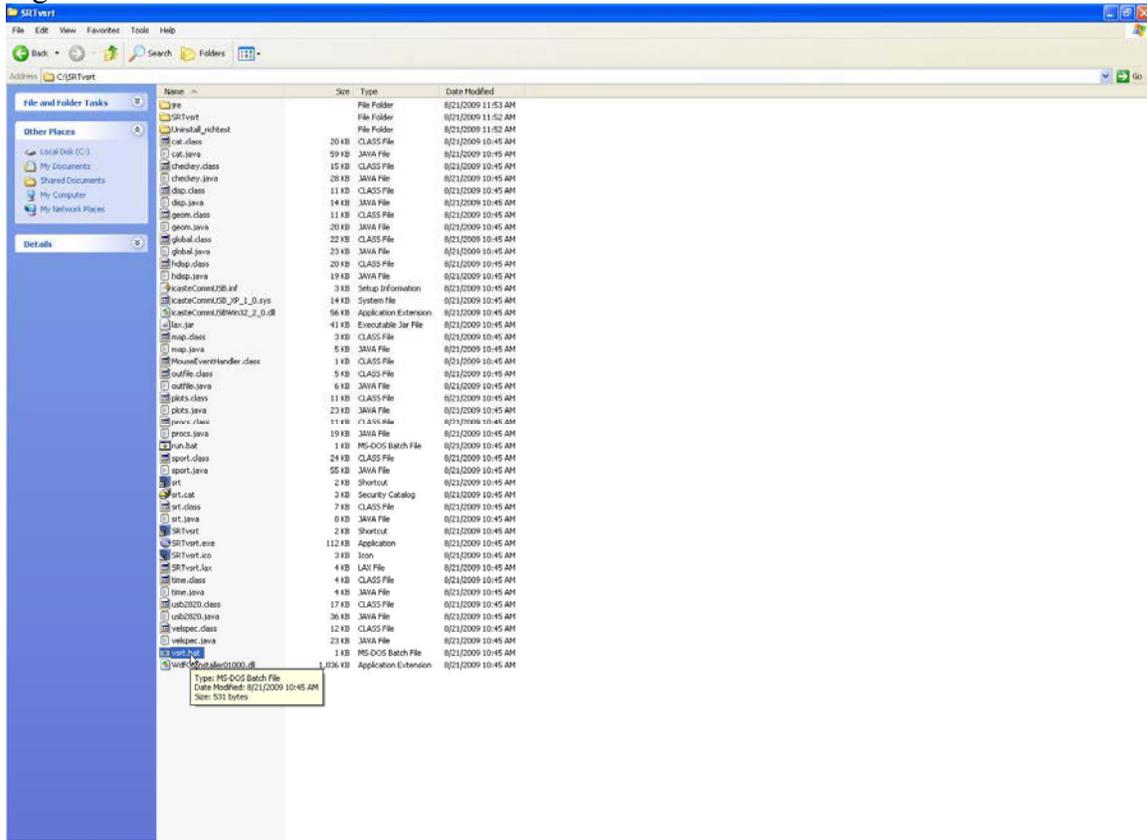
Figure 9.

(**Warning**: This step may take a while. This is normal.)

- Once the files have been copied, hit the "Finish" button.

Step 5. (Note: The C:\SRTvsrt folder may already be open at this point, in which case you can proceed to Step 6.)

- Open up the C:\SRTvsrt folder by going to "My Computer"-> "Local Drive (C:)" and double clicking "SRTvsrt". It should look like the following.

Figure 10.

Step 6.

- Now scroll down and double click on the "install_vsrt" icon (may be listed as install_vsrt.bat).

This will create a SRT icon on your Desktop. The VSRT Install is now complete. You may now close all the open windows.