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-unsigneddrivers/ [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

÷	Extract Compressed (Zipped) Folders		×
	Select a Destination and Extract Files		
	Files will be extracted to this folder:		
	C:\Users\{you}\Desktop\DriverInstaller_64Bit Bro	wse	
	☑ Show extracted files when complete		
	Extract	Cancel	

Click "Extract"

•

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

III III ₩ I	Application Tools C View Manage	CustomDriverInstaller_64Bit				- = ×
← → × ↑ 📑 > Thi	s PC > Desktop > DriverInstaller	_64Bit > CustomDriverInstaller_64Bit			v 0	Search CustomDriverInstaller,, P
A Quick access	Name	Date modified	Туре	Size		
Desktop 🛷	DIFxAPI_AMD64	5/23/2016 11:57 AM	File fo	lder		
- Downloads *	DIFxAPI_IA64	5/23/2016 11:57 AM	File fo	lder		
Documents	Drivers	5/23/2016 11:57 AM	File fo	lder		
Dictures a	Microsoft.VC80.CRT	5/23/2016 11:57 AM	File fo	lder		
	CustomDriverInstaller	5/23/2016 11:57 AM	Applie	ation 42 KR		
Jre	install_log	5/23/2016 11:57 AM	Text	Open		
lib	README	5/23/2016 11:57 AM	Text	👽 Run as administrator		
SRT Software				Troubleshoot compatibility		
🗾 zi				Pin to Start		
Creative Cloud Fil				7-Zip	2	× .
				CRC SHA)	≿
Dropbox (MIT)			3	Move to Dropbox (MIT)		
a OneDrive				Scan with Sophos Anti-Virus		
This PC				Share with	3	>
Desktop				Pin to taskbar		
Documents				Restore previous versions		
🕹 Downloads				Send to	3	>
Music				Cut		
Pictures				Copy		
📓 Videos				C. A. A. A.		
🏪 Local Disk (C:)				Create shortcut		
7 items Titem selected 4	2.0 KB			Rename		

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"

Custon	DriverIns	taller - Short	cut Propertie	5	>
General	Shortcu	t Options	Font	Layout	Colors
Compatil	oility	Security	Details	Previous	Versions
If this prog try running Run co How do I	gram isn't v the comp ompatibility <u>choose co</u>	vorking correct atibility trouble troubleshoote mpatibility sett	tly on this versionshooter. Ar Ar	on of Window	WS,
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Settings Red S-bit (2 Run Disa	uced color 56) color in 640 x 4 ble display this progra	mode 80 screen reso scaling on hig am as an admin	olution gh DPI settings nistrator		
()Chi	ange settir	ngs for all users	8		

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• On the "Shortcut" tab, edit the "Target" field to append "EB1A 2820 icaste" (no quotes)



CustomDriverInstaller - Shortcut Properties					
Compatibility	Se	curity	Details	Previous	Versions
General Sho	rtcut	Options	Font	Layout	Colors
Cu	stomDriv	verlnstaller - S	Shortcut		
Target type:	Applicat	tion			
Target location:	Custom	DriverInstalle	r_64Bit		
Target:	4Bit\Cu	ıstomDriverlr	staller.exe"	EB1A 2820 i	caste
Start in:	"C:\Us	ers\{you}\De	esktop\Drive	erInstaller_64	Bit \Cı
Shortcut key:	None				
Run:	Normal	window			\sim
Comment:					
Open File Lo	cation	Change	e Icon	Advanced	i
		ОК	Ca	ncel	Apply

Click "OK".

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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".

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CustomDriverInstall CustomDriverInstall CustomDriverInstall SRTvsrt SystemV CustomDrive CustomDriverInstall CustomDrive Custo	DIFxAPI_AMD64 DIFxAPI_IA64 Drivers Microsoft.VC80.CRT CustomDriverInstaller - Shortcut CustomDriverInstaller install_log README	5/23/2016 9:14 AM File folder 5/23/2016 9:14 AM File folder 5/23/2016 9:24 AM File folder 5/23/2016 9:14 AM File folder Open Open Move to Dropbox (MIT) Open file location Run as administrator Troubleshoot compatibility Pin to Start Scan with Sophos Anti-Virus		
This PC		Pin to taskbar		
Network Homegroup		Send to >		
		Cut Copy		
8 items 1 item selected 1.	38 КВ	Create shortcut Delete Rename		

When prompted, select "Install this driver software anyway"



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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🚔 Device Manager
File Action View Help
(* *) 🖬 📓 🖬 🕸 🕼 🚱
USB 2820 Device Properties
General Driver Details
USB 2820 Device
Property
Value
USB\VID_EB1A&PID_2820&REV_0100
USB/VID_EBTA&PID_2820
OK Cancel

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..."

II III IIII IIIIIIIIIIIIIIIIIIIIIIIII	Compressed Fo View Extrac	older Tools Desktop					40	•
← → × ↑ 🗖 > Th	is PC > Desktop				v õ	Searc	h Desktop	,
A Quick access	Name	Date	Туре	Size	Tags			
E Desktop 🖈	SRTvsrt_install_v7.5	5/23/2016 11:37 AM	Compressed (zipp	36,757 KB	-			
🕹 Downloads 🖈						0	pen	
🗐 Documents 🦟						0	pen in new windo	w
E Pictures 🖈					- 1	Ð	tract All	
Creative Cloud Fil						7- C	Zip RC SHA	
ConeDrive						Se	an with Sophos A	Anti-Virus
This PC Y						0 N	love to Dropbox (MIT)
item 1 item selected 35	5.8 MB					0	pen with	

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"



on your Desktop.

File Home Share	View Manage					~ 0
> - 🛧 📘 > This	s PC → Local Disk (C:) → SRTvsrt			ې م م	Search SRTvsrt	,p
📌 Quick access	Name	Date modified	Туре	Size		
Greative Cloud Files	geom.java global.class	5/23/2016 11:42 AM 5/23/2016 11:42 AM	JAVA File CLASS File	20 KB 22 KB		
🐉 Dropbox (MIT)	📄 global.java 🥑 H180_srt	5/23/2016 11:42 AM 5/23/2016 11:42 AM	JAVA File Security Catalog	22 KB 2 KB		
ConeDrive	hdisp.class	5/23/2016 11:42 AM 5/23/2016 11:42 AM	CLASS File JAVA File	20 KB 19 KB		1
Desktop	icasteCommUSB casteCommUSB_XP_1_0.sys	5/23/2016 11:42 AM 5/23/2016 11:42 AM	Setup Informati System file	on 3 KB 14 KB		
Downloads	icasteCommUSBWin32_2_0.dll	5/23/2016 11:42 AM 5/23/2016 11:42 AM	Application exte	Open		
Pictures	map.class	5/23/2016 11:42 AM 5/23/2016 11:42 AM 5/23/2016 11:42 AM	CLASS File	Edit Print		
Local Disk (C:)	MouseEventHandler.class	5/23/2016 11:42 AM 5/23/2016 11:42 AM	CLASS File Security Cata	Run as administrator 7-Zip	>	
Timtest (\\franklin.h	outfile.class	5/23/2016 11:42 AM 5/23/2016 11:42 AM	CLASS File JAVA File	CRC SHA	>	
Interview Network	plots.class	5/23/2016 11:42 AM 5/23/2016 11:42 AM	CLASS File	Convert to Adobe PDF and E	Mail	
	procs.class procs.java	5/23/2016 11:42 AM 5/23/2016 11:42 AM	CLASS File JAVA File	Scan with Sophos Anti-Virus Restore previous versions		
	sport.class	5/23/2016 11:42 AM 5/23/2016 11:42 AM	Windows Bat CLASS File	Send to	>	
	🗋 sport.java	5/23/2016 11:42 AM	JAVA File	Cut Copy		

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 .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 $\mathrm{Az}/\mathrm{El}\ \mathrm{LIMITS}$ 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:

🖧 Device Manager
File Action View Help
USB 2820 Device Properties
General Driver Details
USB 2820 Device
Property Hardware Ide
Value USB\VID_EB1A&PID_2820&REV_0100 USB\VID_EB1A&PID_2820
OK Cancel

VSRT Install Instructions for Windows XP

Step 1.

Download the latest version of SRTvsrt_install_vx.x.zip at <u>http://www.haystack.mit.edu</u> 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.

Found New Hardware Wizard					
	Welcome to the Found New Hardware Wizard Windows will search for current and updated software by looking on your computer, on the hardware installation CD, or on the Windows Update Web site (with your permission). Read our privacy policy				
	Can Windows connect to Windows Update to search for software? Yes, this time only Yes, now and every time I connect a device No, not this time				
	Click Next to continue.				
	< Back Next > Cancel				

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

Figure 6.

Found New Hardware Wiza	rd
	This wizard helps you install software for: icasteCommUSBDev If your hardware came with an installation CD or floppy disk, insert it now. What do you want the wizard to do?
	 Install the software automatically (Recommended) Install from a list or specific location (Advanced)
	Click Next to continue.
	< Back Next > Cancel

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

Figure 7.

Found New Hardware Wizard
Please choose your search and installation options.
 Search for the best driver in these locations.
Use the check boxes below to limit or expand the default search, which includes local paths and removable media. The best driver found will be installed.
Search removable media (floppy, CD-ROM)
Include this location in the search:
Browse
O Don't search. I will choose the driver to install.
Choose this option to select the device driver from a list. Windows does not guarantee that the driver you choose will be the best match for your hardware.
< Back Next > Cancel

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.						
Ela Edt Van Enveter	Toole	Help				
A						
3 Back • 0 3	100	warch b Folders				
Address CrisRTvart	_					🖌 🔁 👳
The and folder Tarles	(11)	None -	50	Type	Date Modified	
File and roider Tasks	100	C Strong		File Folder File Folder	B/21/2009 11:53 AM B/21/2009 11:52 AM	
Other Places	(*)	Uninstall_richtest		File Folder	B/21/2009 11:52 AM	
22 10/10/070		at des	20 k)	CLASS File	0/21/2009 10:45 AM	
My Documents		Cot. Jova	15 83	L CLASS File	B/21/2009 10:45 AM	
Shared Documents		D checkey.java	28 8	JAVA File	8/21/2009 10:45 AM	
My Computer		disp.class	11.81	CLASS File	0/21/2009 10:45 AM	
My Network Places		El dep sava	14 K	CLASS File	8(21/2009 10:45 AM 8(21/2009 10:45 AM	
		D geom. sava	20 8	JAVA File	0/21/2009 10:45 AM	
Details	8	🧮 global class	22 83	CLASS File	8/21/2009 10:45 AM	
		global.java	23 10	JAVA File	8/21/2009 10:45 AM	
		hdsp.java	19 83	JAVA File	0/21/2009 10:45 AM	
		ScateConnUS8.rd	38	Setup Information	8/21/2009 10:45 AM	
		kasteCommUSB_VP_1_0.sys	14 83	System Ne	0/21/2009 10:45 AM	
		aliax.jar	41 83	Executable Jar File	B/21/2009 10:45 AM	
		map.dass	3 10	CLASS File	0/21/2009 10:45 AM	
		📃 map.java	5 ki	3AVA File	8/21/2009 10:45 AM	
		m MouseEventHandler.class	16	CLASS File	6/21/2009 10:45 AM 8/21/2009 10:45 AM	
		🗊 outrile-java	6 8	JAVA File	0/21/2009 10:45 AM	
		piots.class	11.83	CLASS File	6/21/2009 10:45 AM	
		Diplots.java	23 K	CLASS File	8/21/2009 10:45 AM	
		procs. java	19 83	JAVA File	8/21/2009 10:45 AM	
		🖸 run bat	1 83	MS-DOS Batch File	0/21/2009 10:45 AM	
		sport.dass	24 83	CLASS File	8/21/2009 10:45 AM	
		sport and	2 10	Shortcut	8/21/2009 10:45 AM	
		Sit.cat	3 K3	Security Catalog	0/21/2009 10:45 AM	
		srt.dass	7 83	CLASS File	8/21/2009 10:45 AM	
		SRTvat	2.0	Shortcut	8/21/2009 10:45 AM	
		SRTvsrt.exe	112 K	Application	8/21/2009 10:45 AM	
		SRTvat.ko	38	1 Joon	0/21/2009 10:45 AM	
		time.class	48	CLASS File	0/21/2009 10:45 AM	
		🛐 time.java	4.83	JAVA File	8/21/2009 10:45 AM	
		usb2820.dass	17 83	CLASS File	8/21/2009 10:45 AM	
		velspec.class	36 1	CLASS File	6/21/2009 10:45 AM	
		D vekpec.java	23.6	JAVA File	8/21/2009 10:45 AM	
		III vsrt.hat	1 83	MS-DOS Batch File	8/21/2009 10:45 AM	
		Type: MS-DOS Batch File	1,006 0	Appecation Extension	0/23/2009 10:45 AM	
		Date Modified: 8/21/2009	10:45 AM			
		ace: son bytes				

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.