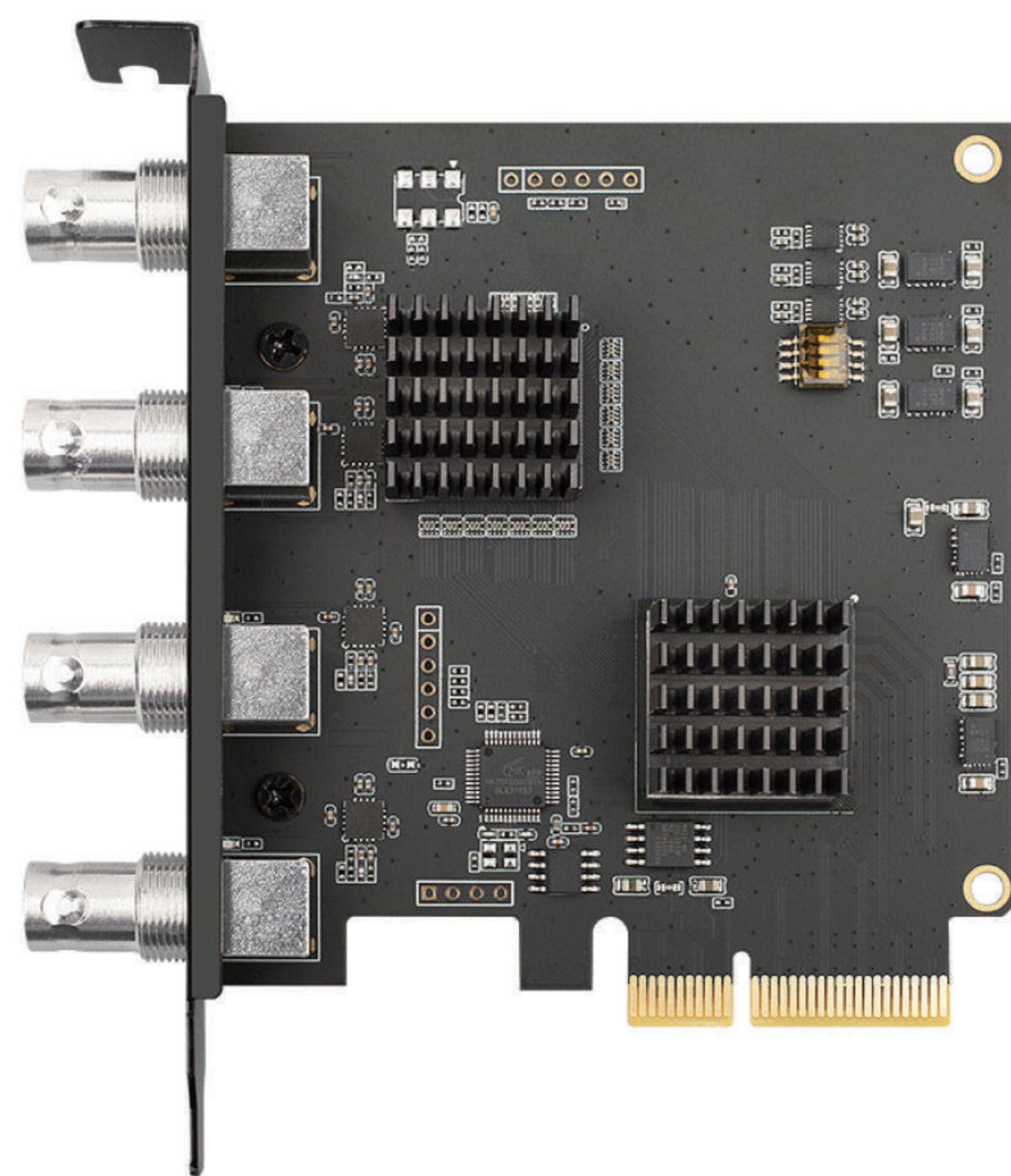# QUAD SDI PCIE VIDEO CAPTURE CARD
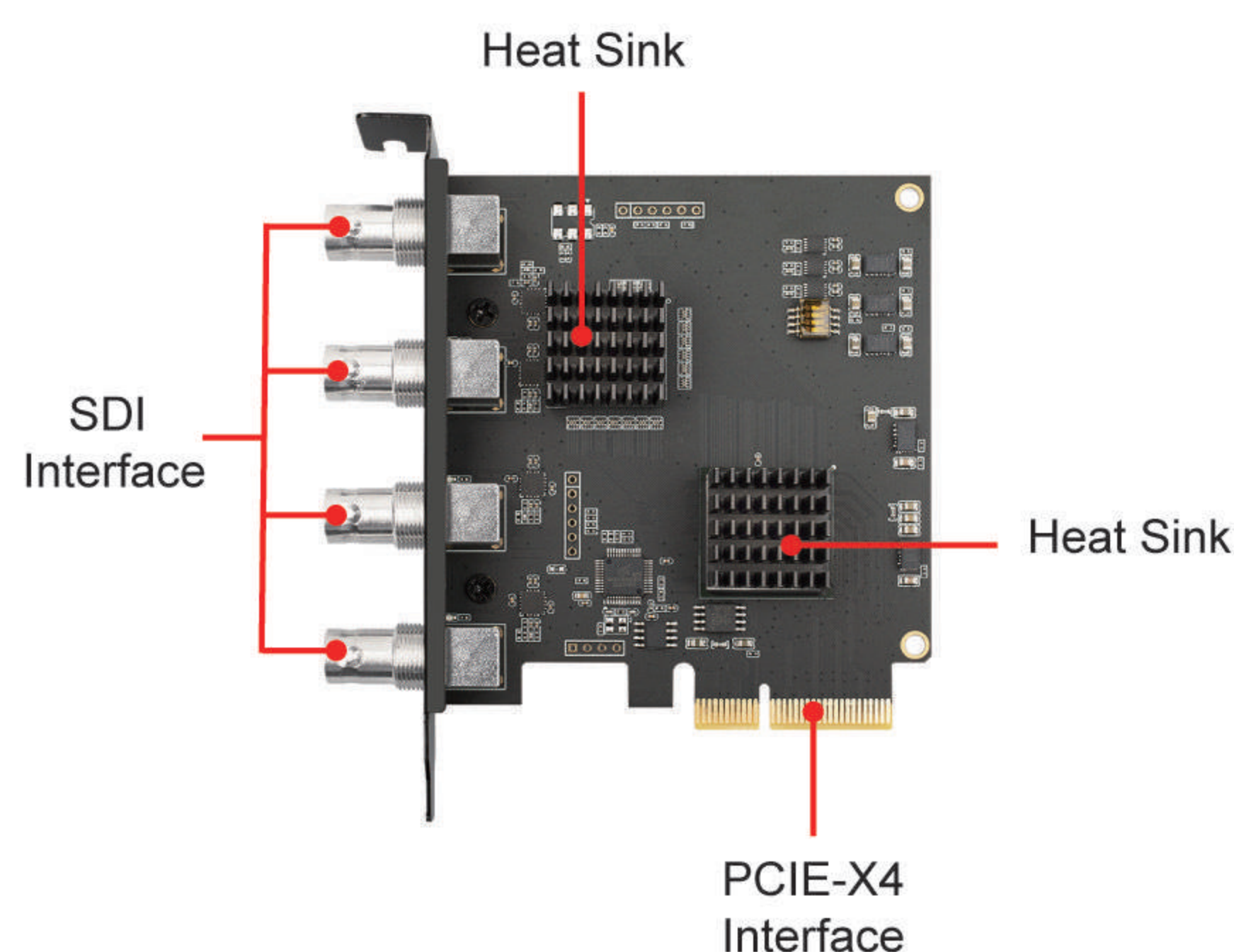

AC-4SDI
User Manual

Thank you for choosing ACASIS SDI PCIe video capture card. Before installing the video capture card on your host computer, please carefully read the user manual. Please avoid dust, humidity, and extreme temperature. Wish you have a good using experience.

Product Features：

- 4-channel SDI video signal input.
- Support 1080p input video signal (compatible with resolutions below 1080p).
- The transmission bandwidth of PCIe 2.0 X4 20GB/s.
- Comform to DerictShow DirectSound , PCM 48K stereo.
- The video processing is completed by the capture card, which does not occupy the CPU of the host computer.
- Automatically detect and inform the input video format.
- Support one machine with multiple capture cards and set channel numbers dynamically.
- Support Windows operating system.

Heat Sink

SDI Interface

Heat Sink

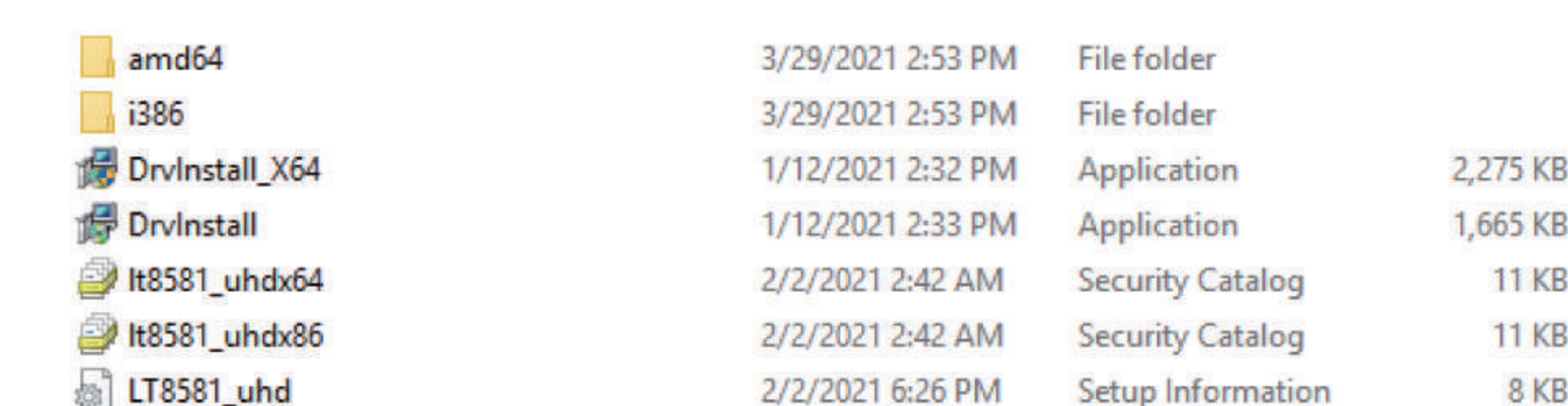PCIE-X4 Interface

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Product Installation:

☞ **Note:**When devices are added to or removed from the system, ensure that the computer is turned off. If possible, disconnect all power cables from the computer before you add a device.

- Insert the PCIe capture card into the PCIe-X4 Gen2 slot of your host computer (compatible with the interface above the PCIe-X4), and make sure it is firmly seated.
  Connect the signal source (SDI interface device) to the PCIe card interface. It can connect four SDI interface devices at the
- same time.
  Reconnect all the power cables to start up the computer, then install the ACASIS PCIe capture card driver.
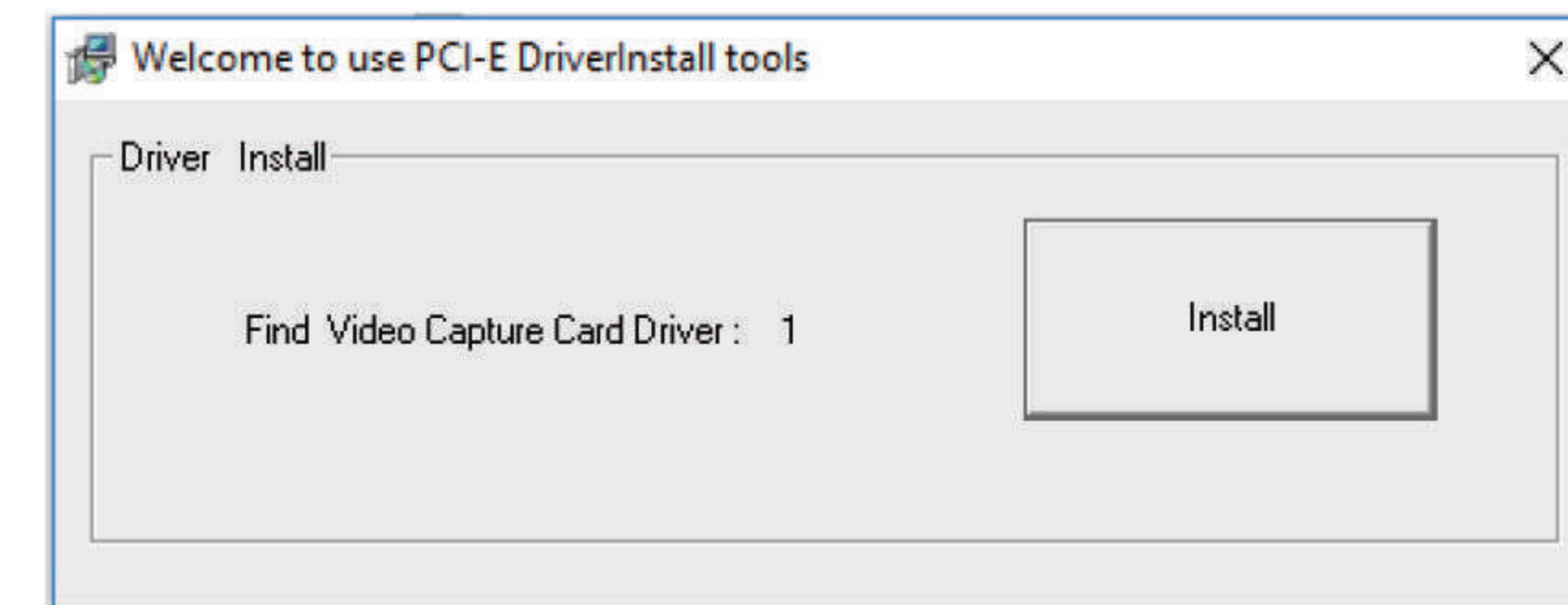
Driver Installation:

- Supported Operating Systems：Windows XP/7/8.1/10

1. Please download the driver from ACASIS website.
   http://www.acasis.com/download_drivers/
2. Open the driver installations source folder and you can find "DrvInstall_X64"program and double click it.

amd64	3/29/2021 2:53 PM	File folder	
i386	3/29/2021 2:53 PM	File folder	
DrvInstall_X64	1/12/2021 2:32 PM	Application	2,275 KB
DrvInstall	1/12/2021 2:33 PM	Application	1,665 KB
lt8581_uhdx64	2/2/2021 2:42 AM	Security Catalog	11 KB
lt8581_uhdx86	2/2/2021 2:42 AM	Security Catalog	11 KB
LT8581_uhd	2/2/2021 6:26 PM	Setup Information	8 KB

3. The pop-up window will show "Find Video Capture Card Driver: 1", indicating that one capture card has been recognized(as shown in the figure below).
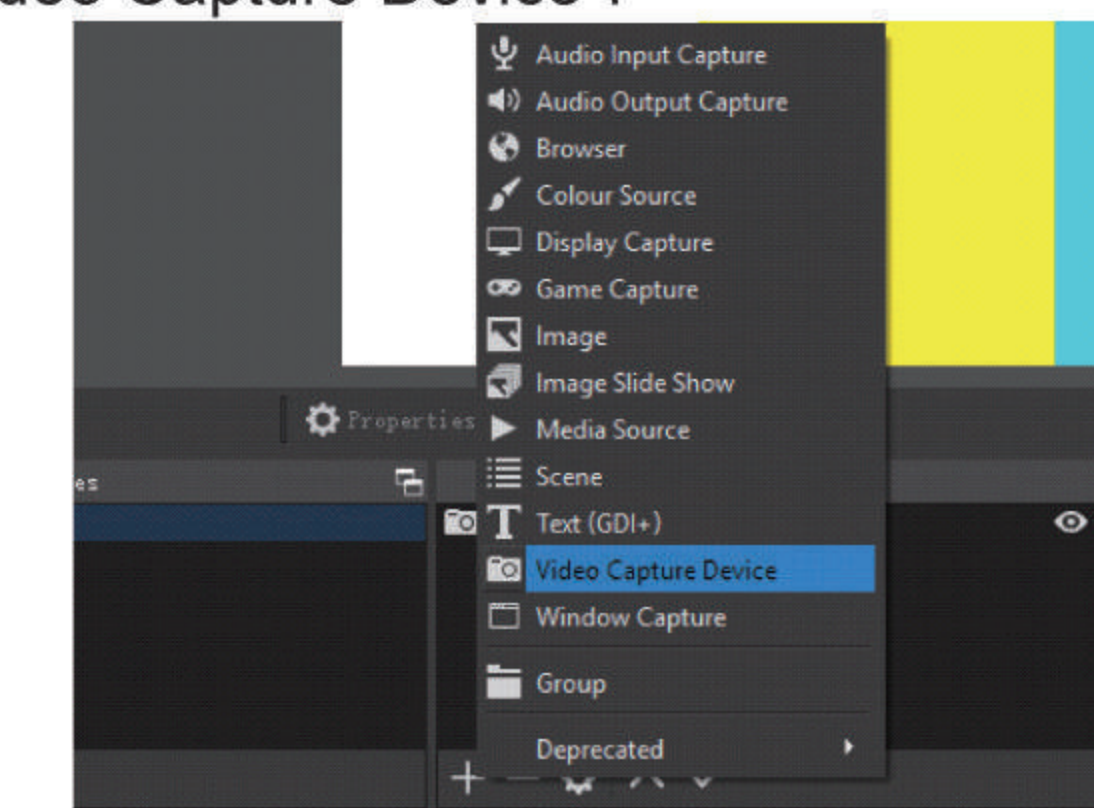
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4. Click "Install" . After the installation has finished, a notification will appear to show if the installation is successful, and click "OK" to finish the installation .
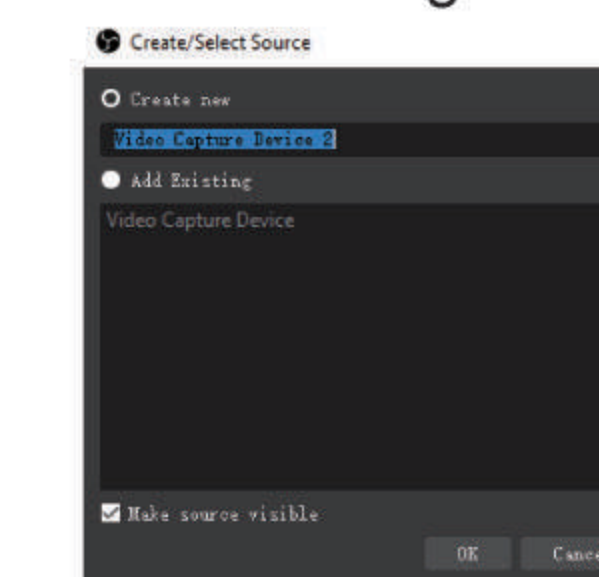
After installing the capture card driver, please set the third-party software.
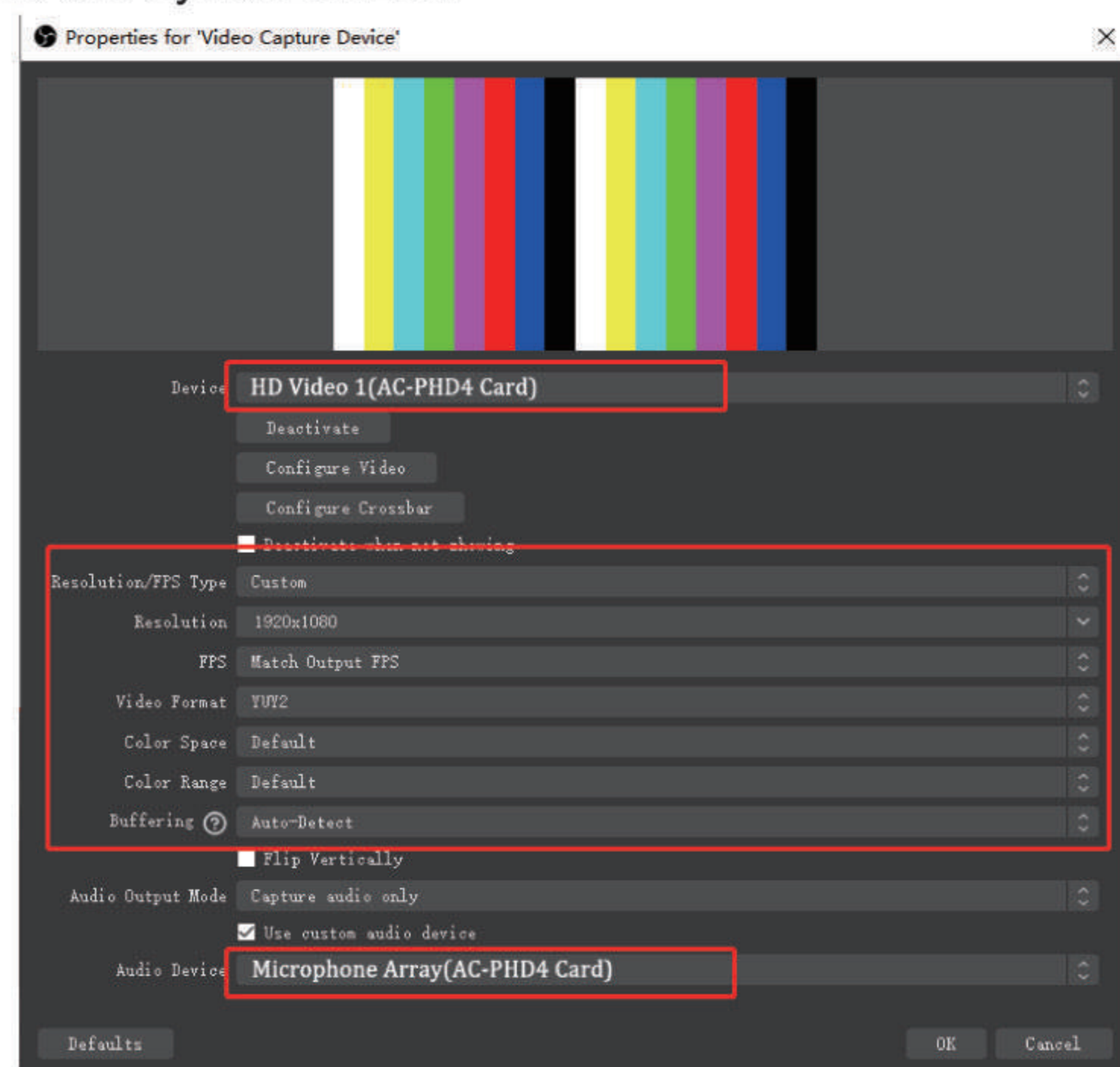
OBS Studio Software Settings:

1. Open OBS software, click "+" on Sources interface, and then click "Video Capture Device".

2. Customize the name of the signal source, and then click "OK".
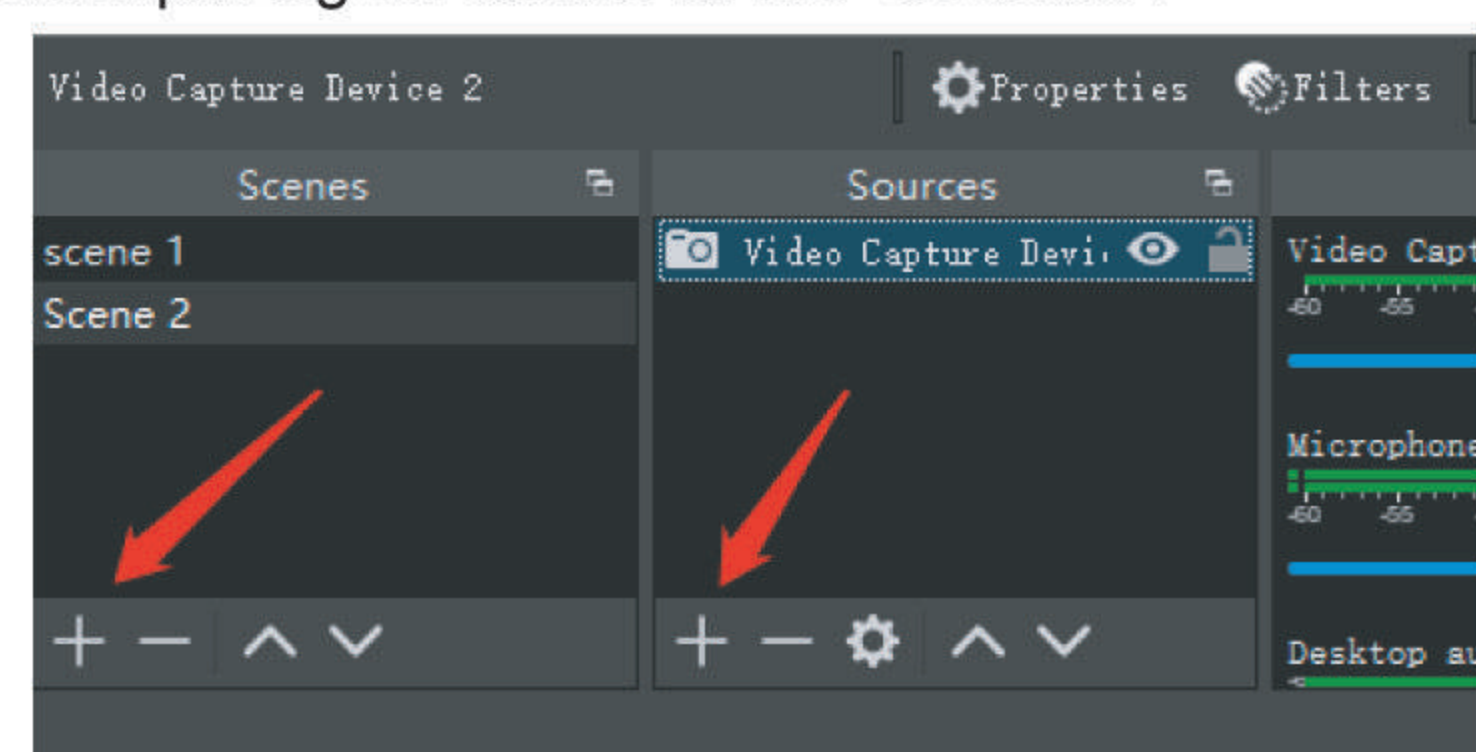
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3. In the Properties interface, select the signal source in "device", such as HD video 1 or HD video 2, and set the relevant parameters of the video signal according to the requirements. If you need to add audio, select the corresponding audio in "audio device". Then click "OK". Check whether the video image and sound are synchronized.
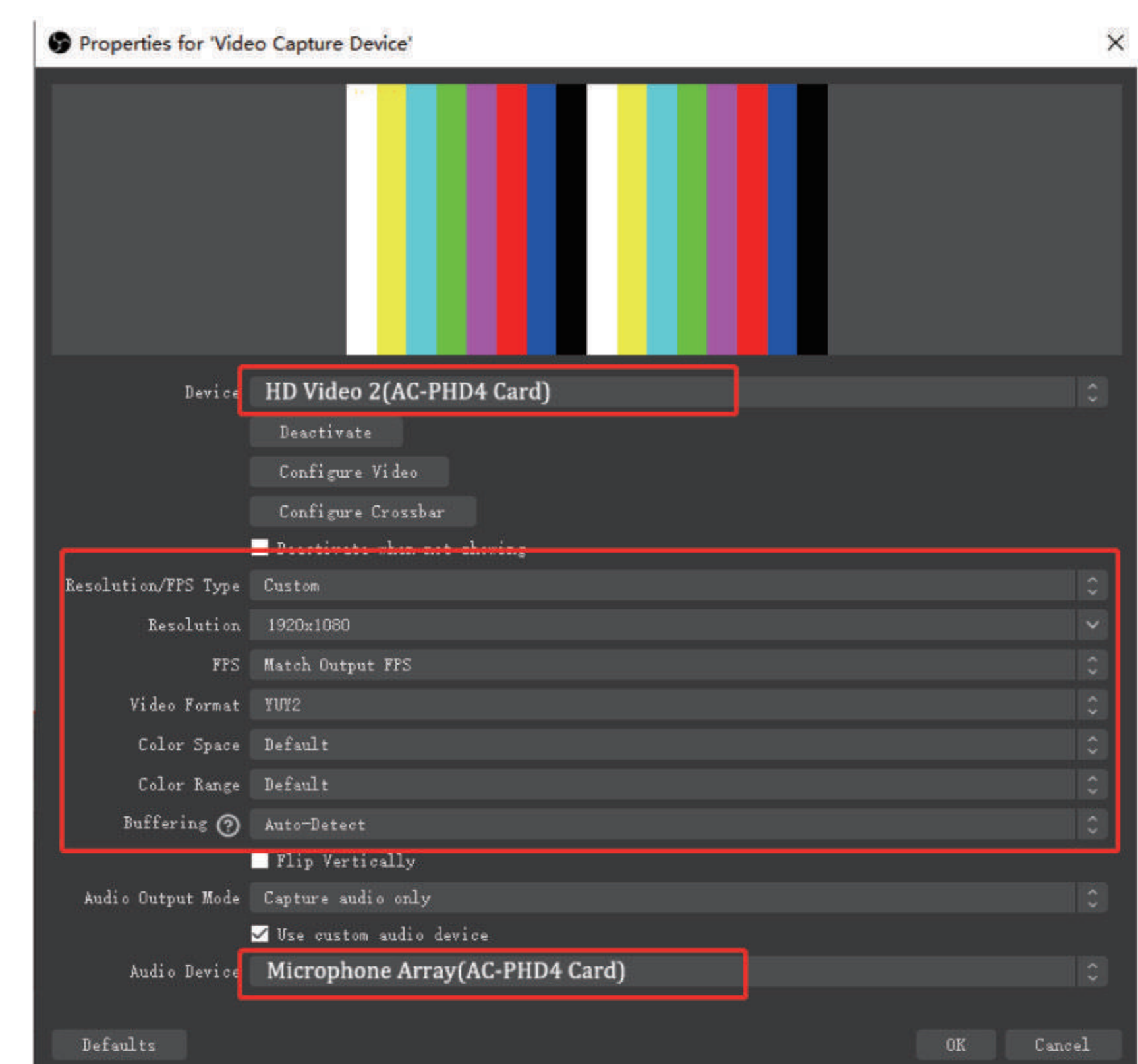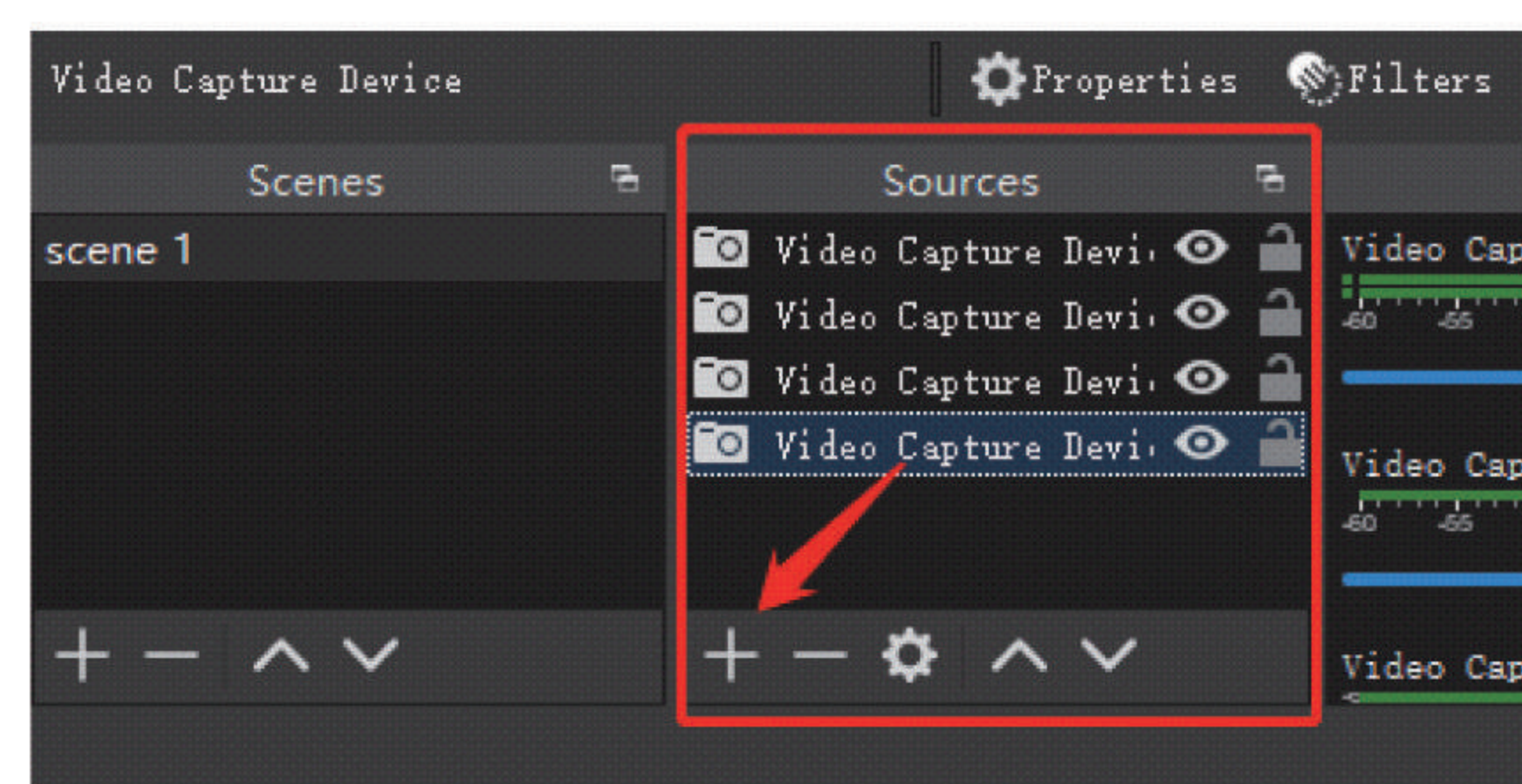

Switch Input Device Mode：

Click "+" in the scenes to add a scene. After adding a scene, add second input signal source at the "Sources".
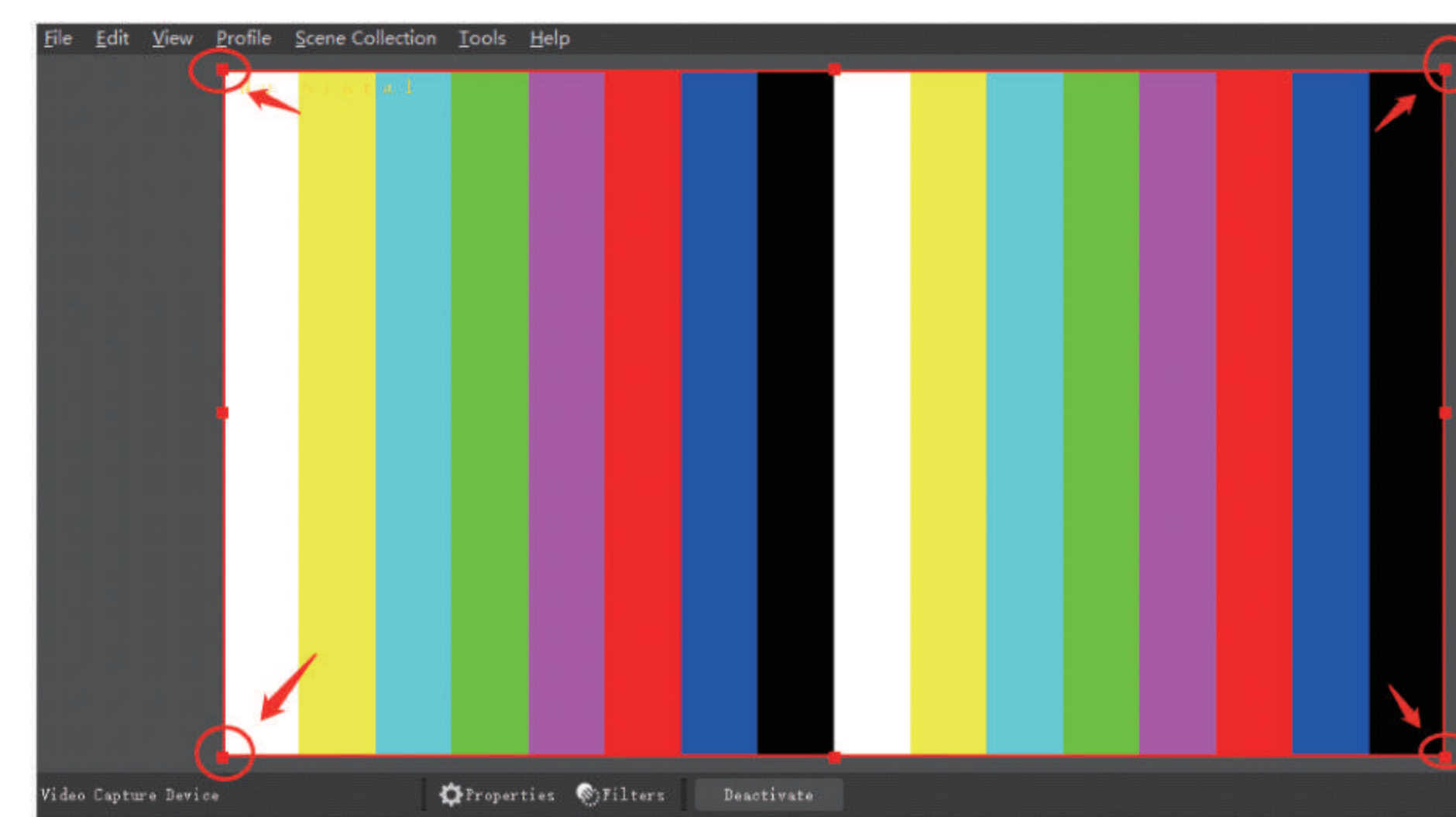

Synchronous Picture-In-Picture Mode:

Click "+" in "Sources" to add other input signal sources, set the corresponding parameters and audio, and then click "OK"

When the second device's screen covers the first device's screen, click the bottom corner to adjust. You can set up multiview according to your own needs, as shown in the figure:

Product Specifications:

Host interface	PCIe 2.0 X4 20GB / s transmission bandwidth
Video input interface	4-channel SDI input
Audio acquisition	4-channel SDI embedded audio signal
Input format	HD-SDI, 3G-SDI
Output color space	YUY2
Input resolution	Any resolutions within 1080p
Hardware de-interlacing	Support 1080i hardware de-interlacing, 3D noise reduction algorithm, clearer images
Operating system support	Windows XP/7/8.1/10 32bit/64bit
Compatible software	Windows Media Encoder, Adobe Flash Media Live Encoder, Real Producer Plus, VLC, Wirecast VMIX,etc

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Compatible live broadcast platform	OBS, XSplit, YouTube, Twitch and other live broadcast platforms
Compatible development interface	DirectShow (Windows) standard interface
Power dissipation	<= 5.0 W
Operating temperature range	0-85 ° C（32 ℉-185 ℉）
Storage temperature range	-20-70 ℃（-4 ℉-158 ℉）
Storage humidity range	5%-90%

Technical Support Email: support@acasis.com

www.acasis.com