SEADA
Showing the World

SDI to USB3.0 Video Capture Plus

User Manual

VER 1.0

Thank you for purchasing this product

For optimum performance and safety, please read these instructions carefully before connecting, operating or adjusting this product. Please keep this manual for future reference.

Surge protection device recommended

This product contains sensitive electrical components that may be damaged by electrical spikes, surges, electric shock, lighting strikes, etc. Use of surge protection systems is highly recommended in order to protect and extend the life of your equipment.

Table of Contents

1. Introduction

This product has a superior performance, superior compatibility, easy to carry, simple installation. It can capture SDI input signal. It supports external analog audio input and can be selected analog or digital audio signal to capture. This product supports SDI loop out and analog stereo audio extract output from SDI source, video resolution the maximum up to 1080p60Hz. It compatibles USB3.0 chipset (Intel, Renesas, ASMedia, Fresco Logic etc.), compatible with PCIe Gen 1.1 x1 expansion via USB3.0 interface. The product meets UVC and UAC standard. Simple plug and play, no driver and setting installation required.

2. Features

☆ Supports SDI video input capture and SDI loop output.

☆ Supports resolution 480i~1080p60Hz input format video capture.

☆ SDI input supports broadcasting standard SMPTE ST 425.

☆ Supports analog stereo audio inputs. (Double audio inputs selected to capture audio.)

☆ Supports analog stereo audio extract from SDI source.

☆ Compatibles Windows, Linux, OS X operating systems.

☆ Compatibles USB3.0 about transmission rate up to 300~350MB/s.

☆ Compatibles VLC, OBS, XSPLIT and AMCAP etc. PC capture software.

☆ Simple plug and play, no drive and setting installation required.

3. Package Contents

① 1× SDI to USB3.0 Video Capture Plus

② 1× USB3.0 male to Type-A male Cable

③ 1× User Manual

4. Specifications

Technical	
Input ports	1×SDI IN [BNC] 1×AUDIO IN [3.5mm Stereo Mini-jack]
Output ports	1×USB [USB Type A, USB3.0—300~350MB/s 1×SDI OUT [BNC] 1×AUDIO OUT [3.5mm Stereo Mini-jack]
input resolution	480i, 576i, 720p50/60, 1080i50/60, 1080p24/25/30/50/60
Output resolution	640×360, 640×480, 720×480, 720×576, 800×600, 856×480, 960×540, 1024×576, 1024×768, 1280×720, 1280×1024, 1280×960, 1280×800, 1368×768, 1440×900, 1600×1200, 1680×1050, 1920×1080
Frame Rate	25/29.97/30/50/59.94/60fps
Audio and video capture	UVC (USB video class) and UAC (USB audio class) standard
Supports OS	Windows 7/8/10, Linux (Kernel version 2.6.38 and above), OS X (10.8 and above)
Software compatibility	OBS (Windows), Windows Media Encoder (Windows), Adobe Flash Media Live Encoder (Windows, OS X), VLC (Windows, OS X, Linux), QuickTime Broadcaster (OS X), QuickTime Player (OS X), Wirecast (Windows, OS X) and Potplayer (Windows) etc.

Mechanical	
Housing	Metal Enclosure
Color	Silvery
Dimensions	98mm [W] x 76.8mm [D] x 18mm [H]
Weight	125g
Power Consumption	2.25W
Operating Temperature	32 - 104°F / 0 - 40°C
Storage Temperature	-4 - 140°F / -20 - 60°C
Relative Humidity	20 - 90% RH (no condensation)

5. Operation Controls and Functions
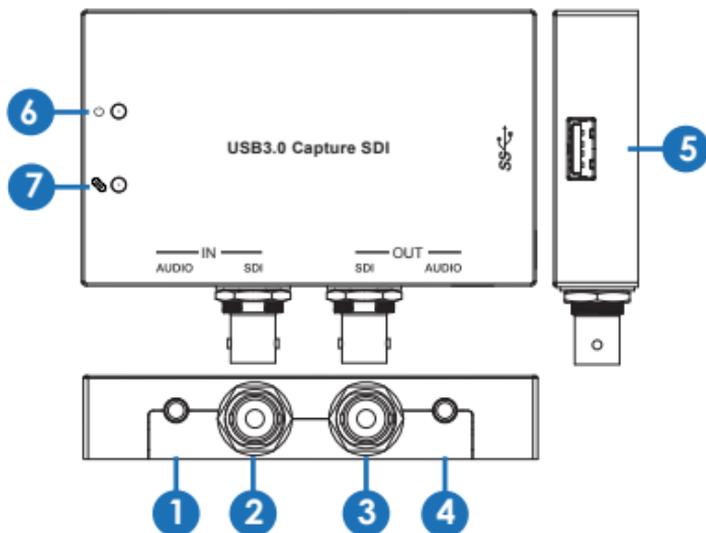
Number	Name	Function description
1	AUDIO IN	Audio input port, connect to external analog stereo audio input such as mobile phone or DVD.
2	SDI IN	Connect to SDI source such as camera by SDI cable.
3	SDI OUT	SDI loop output port, connect to SDI display device by SDI cable.
4	AUDIO OUT	Audio output port. (This port output signal from SDI IN audio source.)
5	USB3.0 Capture out	USB3.0 capture output port, connect to PC or NoteBook for capturing video.
6	Power Indicator	This LED will illuminate when the device has connected PC's or NoteBook's USB port.
7	Action Indicator	This LED will illuminate when the device capture video normally.

6. Software instruction

For example: OBS (Open Broadcaster Software) software, windows10 system.

1. Install "OBS" application software on the computer.
2. Double click "OBS Studio" shortcut to open the application.
3. Click the "+", you can see a up-down menu and select "Video Capture Device", and then click "OK" button.
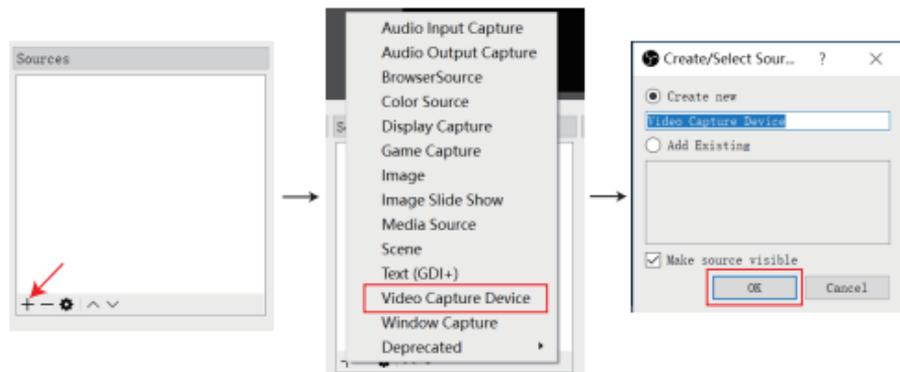
4. In the Device option box to select "USB3.0 Capture Video", at the buttom of the box to option for "Use custom audio device", and select "USB3.0 Capture Digital Audio or USB3.0 Capture Analog Audio". Then click "OK" button. (Attention: The "USB3.0 Capture Digital Audio" is SDI IN port audio. The "USB3.0 Capture Analog Audio" is AUDIO IN input audio.)
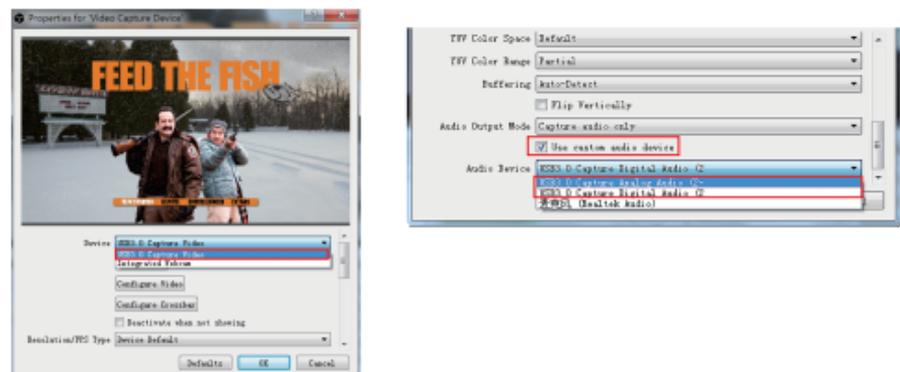
5. In the Setting page, you can select "Audio" option. In the page, you need select "Sample Rate" and "Mic/Auxiliary Audio Device" to select "USB3.0 Capture Analog Audio or USB3.0 Capture Digital Audio". Then click "Apply" button and "OK" button. (Attention: The "USB3.0 Capture Digital Audio" is SDI IN port audio. The "USB3.0 Capture Analog Audio" is AUDIO IN input audio.)
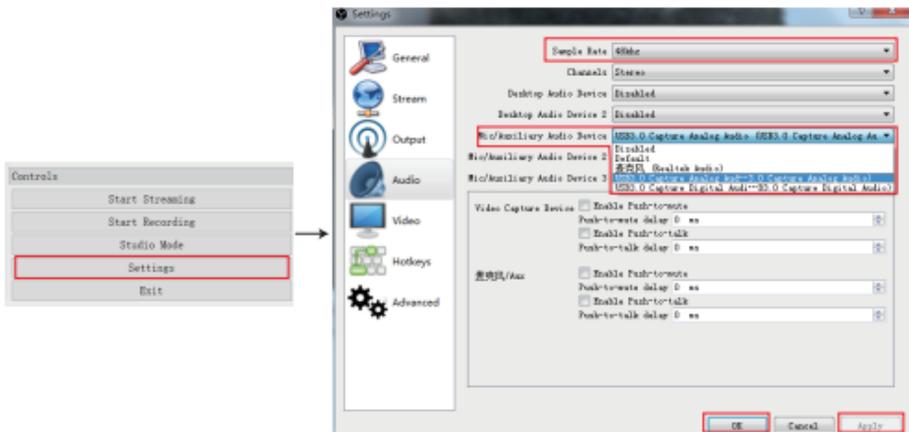
6. Use your mouse to click the Setting icon, you need select "Advanced Audio Properties" option. In the Advanced Audio Properties page, you need select "Monitor and Output" option. Then click "Close" button.
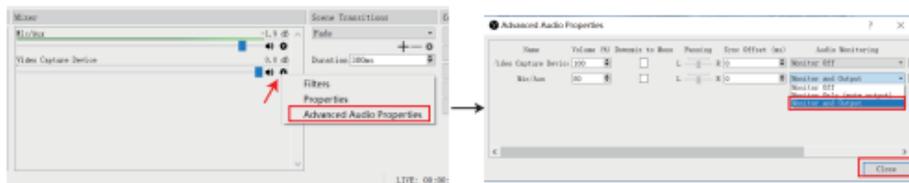
7. In the Setting page, you can select "Video" option. In the page, you can select "Base Resolution" and "Output Resolution". Then click "Apply" button and "OK" button.
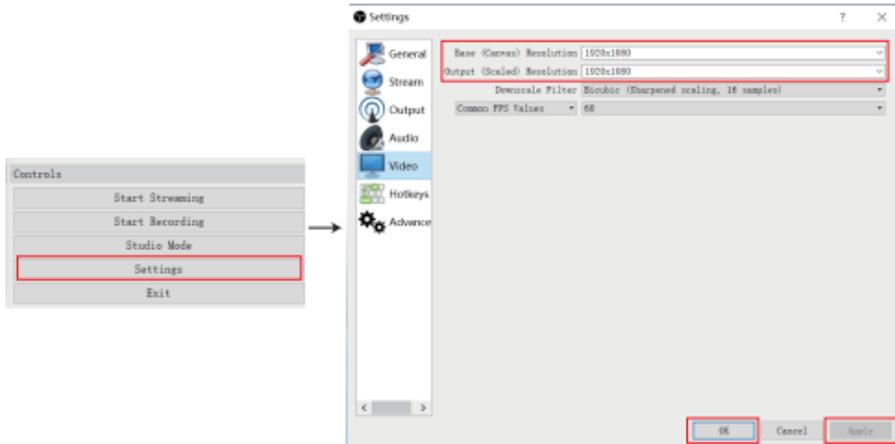
8. Open Setting page, you can select "Output" option. In the page, you can browse recording path for capturing video, select the recording quality, select recording format etc. Then click "Apply" button and "OK" button.
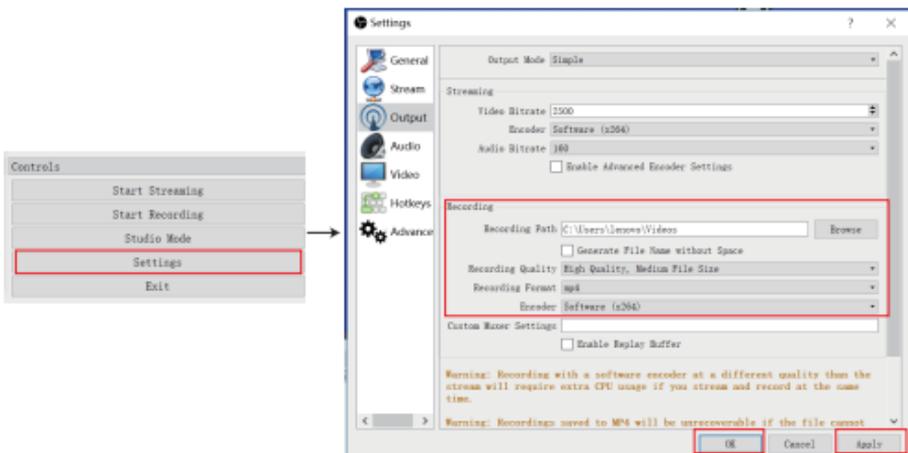
9. When you have finished all settings, you need click the "Start Recording" button to start video capture. If it has finished, click this button again to stop video capture.

Controls
Start Streaming
Start Recording
Studio Mode
Settings
Exit

10. When the video capture is over, you can click the "Exit" button to close the software.

Controls
Start Streaming
Start Recording
Studio Mode
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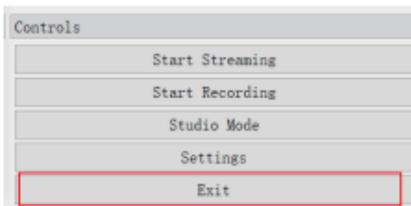
Attention: The all instruction of the software is only about video capture settings at the above content. You can brower other related settings function.

7. The way of select about capture audio

This product supports analog stereo audio and SDI source audio (digital audio). It has two audio capture ways when it captures video.

For example: OBS (Open Broadcaster Software) software. When the product captures video, it can select analog stereo audio or SDI source audio. This moment, these two places need to be set up the same. It is be set either "USB3.0 Capture Analog Audio" the same or "USB3.0 Capture Digital Audio" the same. As shown in the image below.

8. Application Example

Notebook

USB3.0 Capture SDI

IN
AUDIO SDI

OUT
SDI AUDIO

PC

Camera

SDI Monitor

2.0 Speakers