

QUICK GUIDE



USB3.0 SDI Video Capture DL-SDI2USB-CAP

PRODUCT OVERVIEW

The Liberty DL-SDI2USB-CAP is a commercial-grade, USB capture device designed to record uncompressed video and audio from an SDI source such as a camera, all while connected directly to a computer. Being 100% USB-compliant, the device is ideal to use with any SDI-equipped camera, switcher, and other security and broadcast equipment, and being 100% USB compliant, its plug-n-play design requires no drivers or downloads to install.

Stream from an SDI source directly to YouTube, Facebook, or your favorite video conferencing software platforms such as (Teams, Zoom, Workplace, and many others). Featuring an SDI input with loop output in addition to a USB 3.0 output. The device supports video resolutions up to 1080p/60 video and is powered via a USB port.

CAPTURE SDI SIGNALS: Using USB 3.0 technology, capture audio and video SDI signals up to 1080p @60Hz. Supporting the latest SDI technologies ranging from 3G-SDI, HD-SDI and SD-SDI signals.

SDI LOOPOUT: Perfect for connecting to a 3G/HD/SD-SDI monitor/display connection without needing a distribution amplifier.

VIDEO RECORDING: with H.264 software compression. Supports USB 3.0 (MJPG/YUY2) and USB 2.0 (MJPG). Compatible with USB Video Class (UVC 1.0). Low latency.

Power: Bus Powered through USB 3.0 (USB 3.2, Gen 1) interface to computer.

Supported Video Resolutions: 720 x 480 (60p), 720 x 576 (50p), 1280 x 720p (50p), 1280 x 720p(60p), 1920 x 1080 (50i), 1920 x 1080 (60i), 1920 x 1080 (24p), 1920 x 1080 (25p), 1920 x 1080 (30p), 1920 x 1080 (50p), 1920 x 1080 (60p).

Supported Audio: Audio input from embedded SDI or analog stereo audio (2-channel, 16-bit PCM) Compliance: Gen USB 3.x while being fully backwards compatible with USB 2.0.

CAPTURE/STREAMING SOFTWARE: Compatible with most third-party software such as AMCap, OBS Studio (Windows, OS X); Windows Media Encoder (Windows); Adobe Flash Media Live -Encoder.

PRODUCT BREAKDOWN



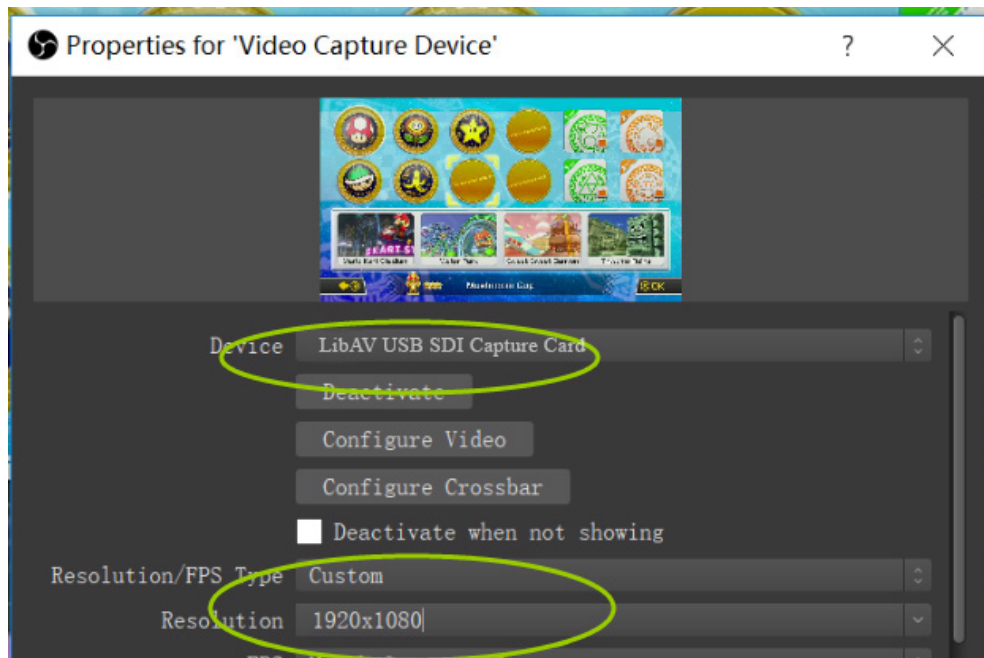
1. Female USB Type A: Connect to host computer.
2. Male BNC: Connect to preview monitor.
3. Male BNC: From source such as a camera.

SETTING UP THIRD-PARTY SOFTWARE

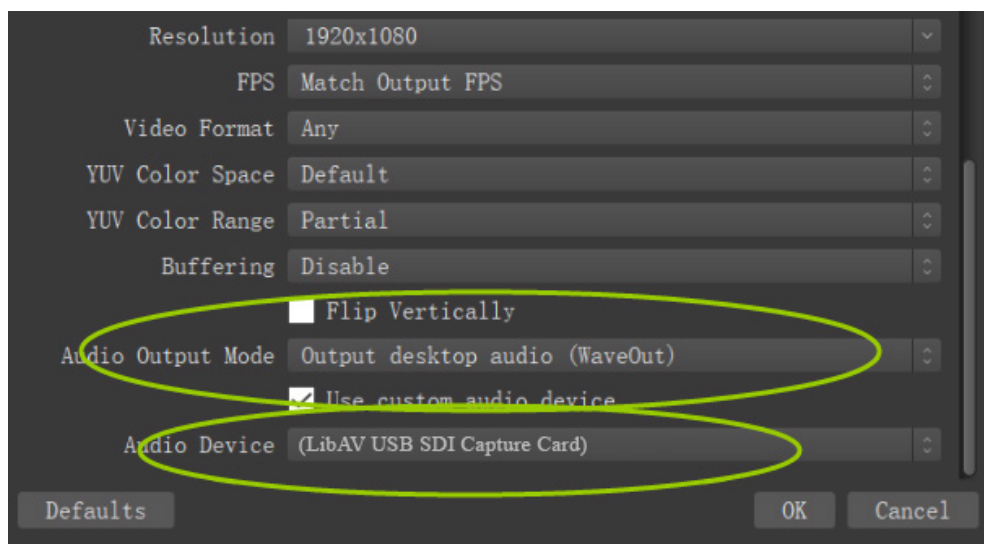
When using OBS Studio:

Make sure you download the latest software from their website according to your computer's operating system, and install it on your computer. Connect the DL-SDI2USB-CAP to computer using the provided USB3.0 cable. Windows will install the driver automatically, and you will see "LibAV USB SDI Capture Card" listing within your device manager.

Start the OBS Studio software and click the "+" icon under the "Sources" window, and select "Video Capture Device", then select "LibAV USB SDI Capture Card" in the dropdown next to "Device":



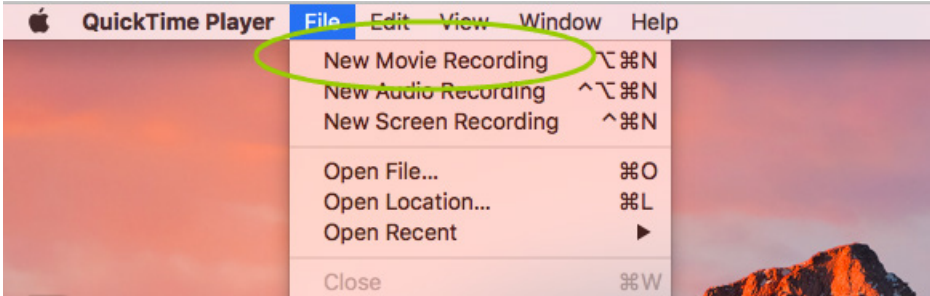
Scroll down and set the "Audio Output Mode" to "Output desktop audio (WaveOut)", Audio Device to "LibAV USB SDI Capture Card":



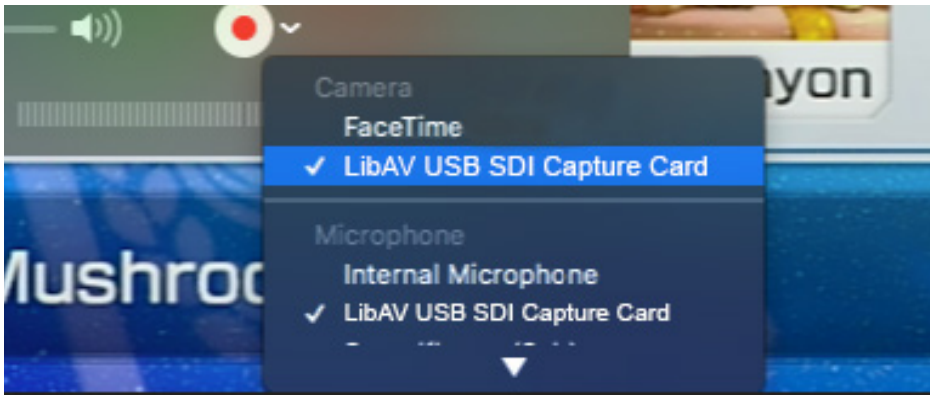
SETTING UP THIRD-PARTY SOFTWARE CONT.

When using QuickTime Player:

Run QuickTime player, select "New Movie Recording":

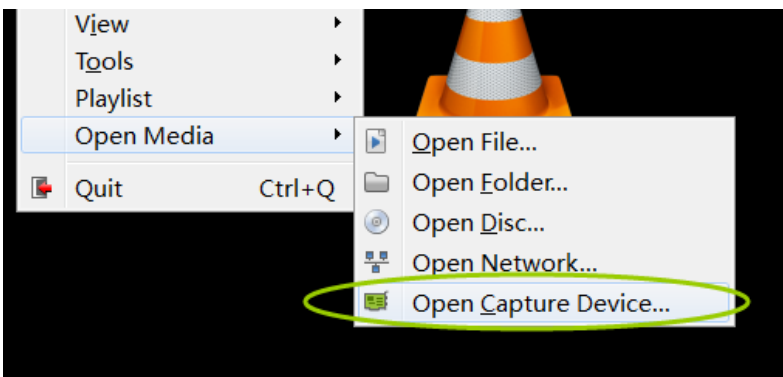


Choose "LibAV USB SDI Capture Card" under Camera and Microphone option:

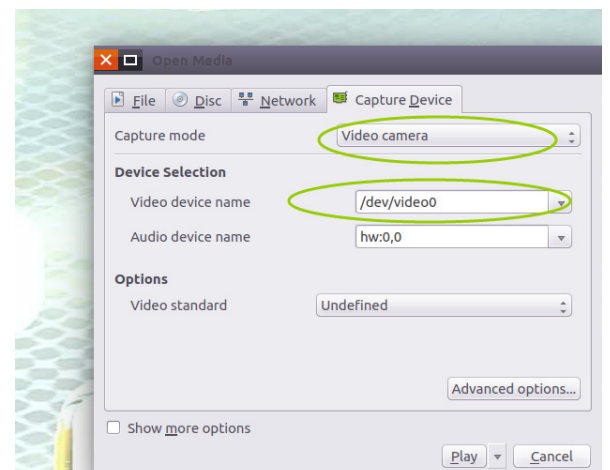


When using a Linux machine with OBS VLC (shows example for Ubuntu):

Right click on window, select "Open Capture Device":

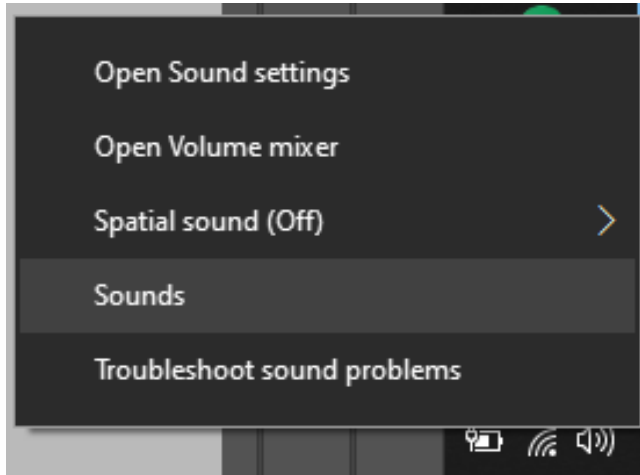
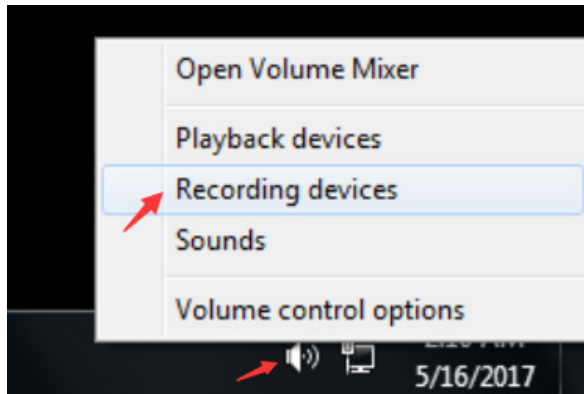


Choose "Video camera" ---"/dev/video0" then click "play"



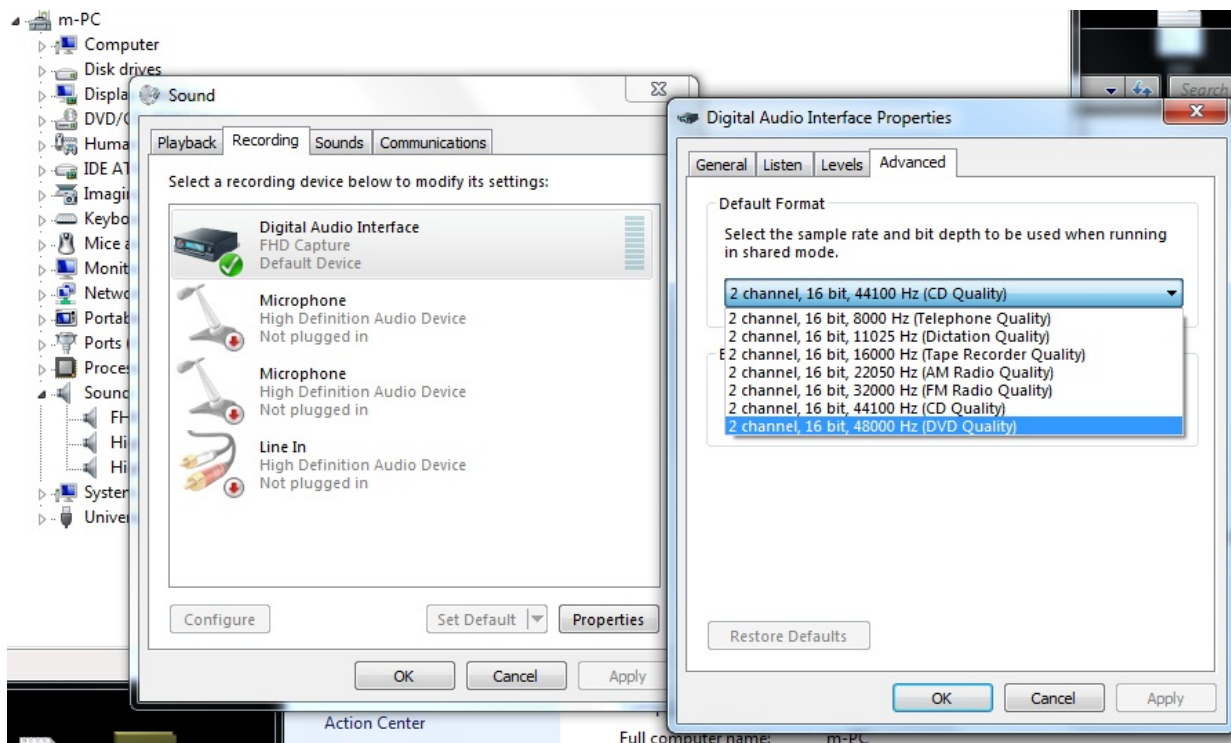
SYNCHRONIZING AUDIO WITH VIDEO

After connecting the device to your computer using the provided USB cable, right click on “Speaker” within the toolbar and choose “Recording devices” or “Sounds”.



Within the pop-up window, click on the “recording” tab and find “LibAV USB SDI Capture Card”. Double click on the device and then click the “Advanced” tab. The “Default format” will be shown, make sure that “2 channel 16 bit, 48000 Hz (DVD Quality)” is selected within the dropdown.

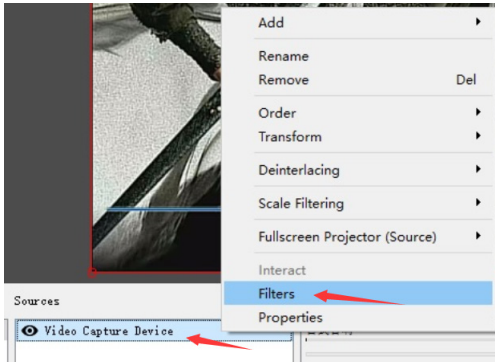
You will need to verify that your audio matches the video sample rate. IF the video sample rate is set to 44100hz or 32000hz, then you need to adjust the audio to match to reduce the introduction of noise.



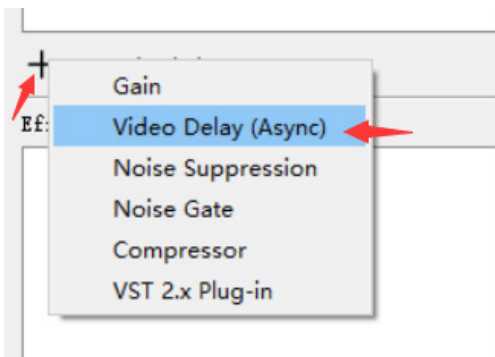
SYNCHRONIZING AUDIO WITH VIDEO CONT.

When setting up the software for video latency, you want to make sure the audio and video are synchronized:

Using OBS Studio, right click on "Video Capture Device" then click "Filters":



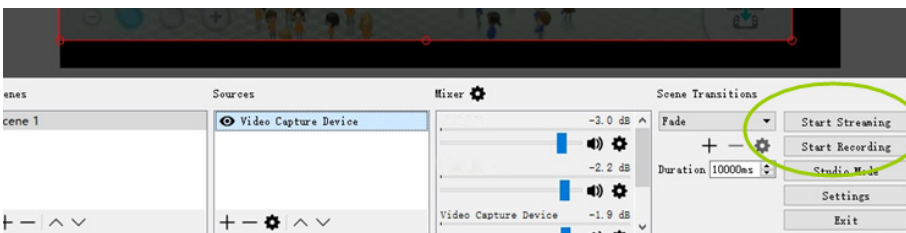
Click on "Video Delay (Async)"



Within the drop down, start off with 470ms and adjust accordingly in small amounts until the video and audio are synced.

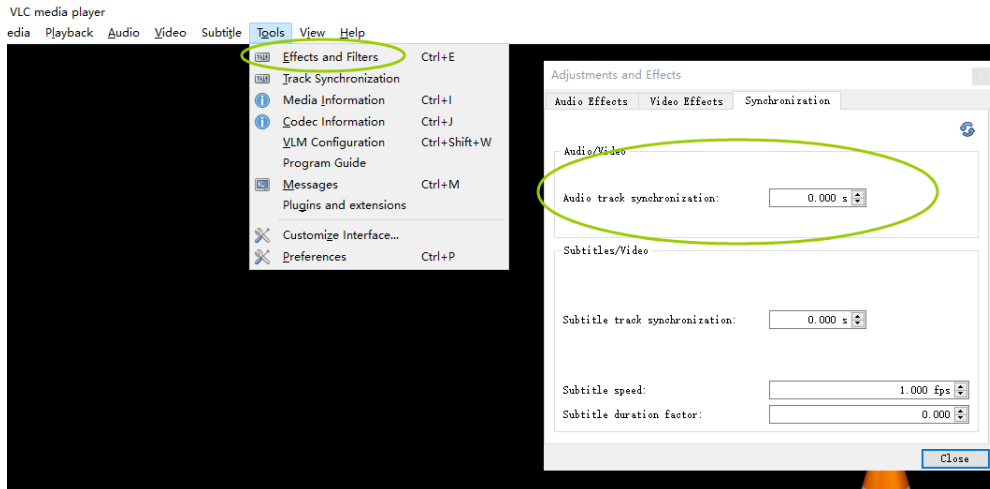


Start Recording/Streaming

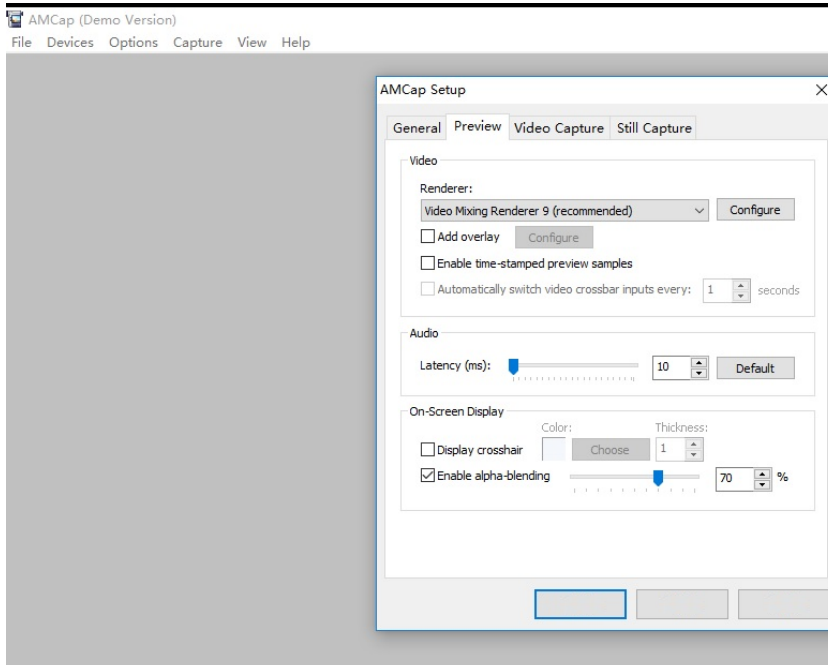


SYNCHRONIZING AUDIO WITH VIDEO CONT.

When using VLC: Click on Tools>Effects and Filters-Synchronization, then adjust the delay value of audio track synchronization, until the audio and video are in synch.



When using Amcap: Click on Capture>Setup>Preview, set the audio latency to your preference which is normally set to 10ms:



TECHNICAL SPECIFICATIONS

USB Capture Device	
Case Material	Industrial-grade metal chassis
Supported Transfer Rates	Transfer rate of 5Gbps/1.5/12/480 Mbps
Power Protection	Over current, over voltage, short circuit protection
USB Specifications	Fully compatible with USB 2.0/3.0/1.0 specification. Fully backwards compatible with USB 2.0/1.1 specification.
LED Indicator	Blue LED: Status for USB peripheral or power
Compatibility	
Operating System	Windows®7 (1080p and under only), Windows 8.1, Windows 10 or higher MacOS™ 10.10 or higher Google™ Chromebook™ Version 29.0.1547.70 or higher Linux
USB Communication Protocol	UVC 1.1
Video Resolution	720 x 480 (60p), 720 x 576 (50p), 1280 x 720p (50p), 1280 x 720p(60p), 1920 x 1080 (50i), 1920 x 1080 (60i), 1920 x 1080 (24p), 1920 x 1080 (25p), 1920 x 1080 (30p), 1920 x 1080 (50p), 1920 x 1080 (60p)
Software	OBS Studio (Windows,OS X); Windows Media Encoder (Windows); Adobe Flash Media Live -Encoder (Windows, OS X); Real Producer Plus (Windows); VLC (Windows, OS X, Linux); QuickTime Broadcaster (OS X); QuickTime Player (OS X); Wirecast (Windows,OS X); vMix(Windows); Potplayer (Windows) and etc.
USB Recording Resolution	1080P 60fps
Input/Output Interface	
USB Interface	1x USB-B 3.0 Upstream Port
Support on Upstream Port	SuperSpeed (SS), HighSpeed (HS) and FullSpeed (FS) traffic. Note: Transfer rates are device and USB host controller dependent
BNC	2x BNC male ports
Physical Parameter	
Power	From USB bus power
Dimension (WxHxD)	107(L) x 55(W) x 21(H) mm
Net Weight	80G
Certification	CE, FCC, RoHS

Thank you for your purchase.

For technical support please call our
toll-free number at 800-530-8998
or email us at supportlibav@libav.com

LIBERTY
AV SOLUTIONS

www.libav.com 800-530-8998