SYNVIO

DK519 Installation Manual

USB 3.2 Gen 1 Video Capture and Target-Device Controller

Revision: 2026-08-18 | English | DK519 Installation and Operation

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Video and audio setup

Before you begin: Verify that the package is complete and use a sufficiently powerful host PC with a USB 3.0/USB 3.2 Gen 1 port. HDCP-protected content cannot be recorded through the DK519.

1. Package Contents

- DK519 device × 1
- USB-A-to-USB-C cable × 1
- USB-C-to-USB-C cable × 1
- HDMI cable × 1 (optional)
- Quick guide × 1

2. System Requirements

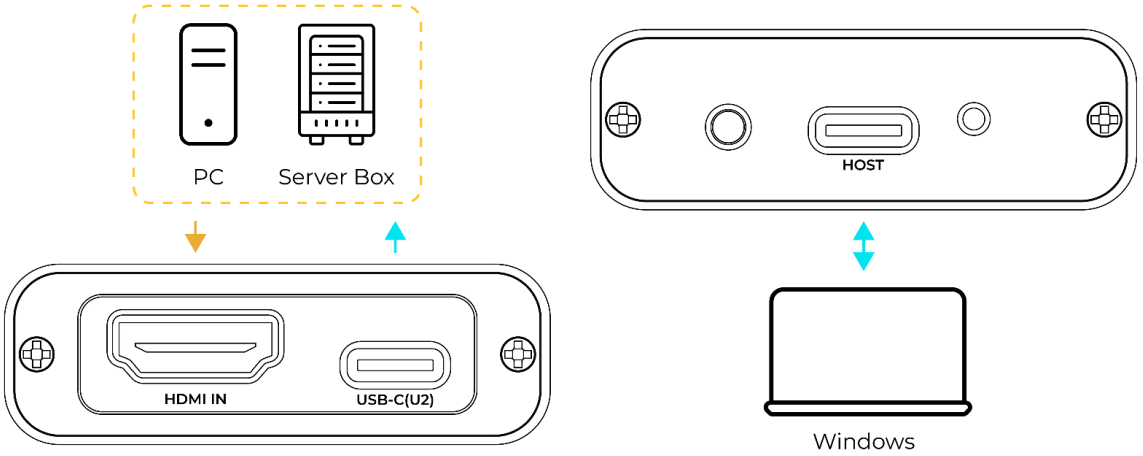
Host Controller PC

- **Desktop:** Intel® Core™ i5-4440 at 3.10 GHz with an NVIDIA GeForce GTX 660 or equivalent graphics card.
- **Laptop:** Intel® Core™ i7-4810MQ with an NVIDIA GeForce GTX 870M or equivalent graphics card.
- 4 GB RAM minimum; 8 GB recommended.
- A powered USB 3.0 port. Recommended host-controller chipsets include Intel, Renesas (NEC), Etron, ASMedia, and AMD.
- A sufficiently powerful graphics card.
- An AC97-compatible sound card.
- Microsoft Windows 10 or Windows 11.

Target Device Controlled by the Host PC

- An HDMI video output.
- A USB port that supports HID-class keyboard and mouse input.
- Tested platforms include Windows PCs, Macs, iOS devices, Linux-based systems, and Raspberry Pi.

3. Hardware Installation



DK519 hardware connection diagram.

1. Connect the target device's HDMI output to **HDMI IN** on the DK519.
2. Use a USB-C cable to connect the target device's USB port to **USB-C (U2)** on the DK519.
3. Use the supplied USB-A-to-USB-C or USB-C-to-USB-C cable to connect **USB-C HOST** on the DK519 to the host PC.
4. Confirm that the DK519 LED indicates the correct USB connection mode, then launch SynCapX or OBS Studio.

4. Device Configuration

4.1 LED Status

Status / Event	Standby Mode	Working Mode
Connected to power / host	Purple for 1 second	—
USB 3.2 Gen 1	Solid blue	Flashing blue
USB 2.0	Solid purple	Flashing blue
HDCP-protected signal	—	Flashing purple
No video signal	—	Flashing orange
Firmware update	Flashing orange	—

4.2 Buttons and Connectors

No.	Item	Function
1	USB-C HOST	Connects the DK519 to the host PC for target-device control and video capture.
2	HDMI IN	Receives the HDMI signal from the target device.
3	USB-C (U2)	Connects to the USB port on the target device.
4	LED	Indicates the current DK519 status.

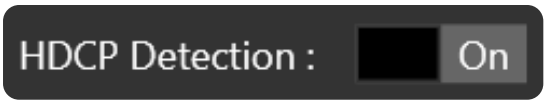
5. Frequently Asked Question

What should I do when HDCP protection is detected?

Use SynCapX to change the **HDCP Detection** setting. This setting does not remove or bypass HDCP. Actual output and recording availability depend on the source device and whether the content is protected.



HDCP Detection: Off

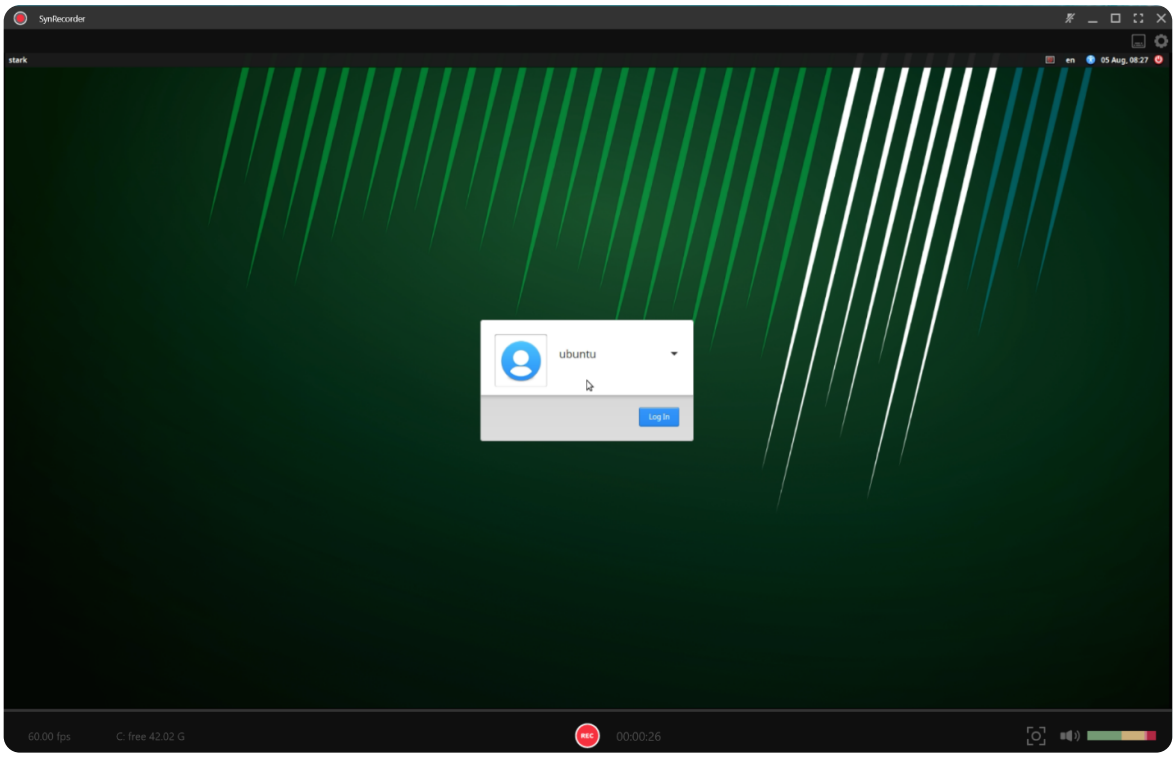


HDCP Detection: On

Source / Scenario	HDCP Detection: Off iOS/macOS recording mode	HDCP Detection: On Normal mode
iOS device with HDMI/DP output	General content is usually output without HDCP and can be recorded. Copyright-protected content from services such as YouTube or Netflix still uses HDCP and cannot be recorded.	iOS uses HDCP output; recording is not available.
macOS device with HDMI/DP output	General content is usually output without HDCP and can be recorded. Copyright-protected content from services such as YouTube or Netflix still uses HDCP and cannot be recorded.	macOS uses HDCP output; recording is not available.
Some media players that behave like iOS devices	General content may be output without HDCP and can be recorded. Copyright-protected content still uses HDCP and cannot be recorded.	The player continues to use HDCP output; recording is not available.
PS4 / PS4 Pro / PS5 with HDCP disabled on the console	The console outputs without HDCP and can be recorded.	The console outputs without HDCP and can be recorded.
PS4 / PS4 Pro / PS5 with HDCP enabled on the console	The console may treat the DK519 as a non-HDCP-compliant receiver and output a black screen. A recording may be created, but it will contain only the black screen.	The console outputs with HDCP; recording is not available.
PS3 HDMI output	The PS3 always uses HDCP. It treats the DK519 as a non-HDCP-compliant receiver and outputs a black screen.	The PS3 always uses HDCP; recording is not available.

Important: The DK519 does not convert an HDCP-protected signal into an unprotected signal. Record only content that you are authorized to capture, and comply with applicable copyright laws and service terms.

Appendix 1: Controlling the Target Device with SynCapX

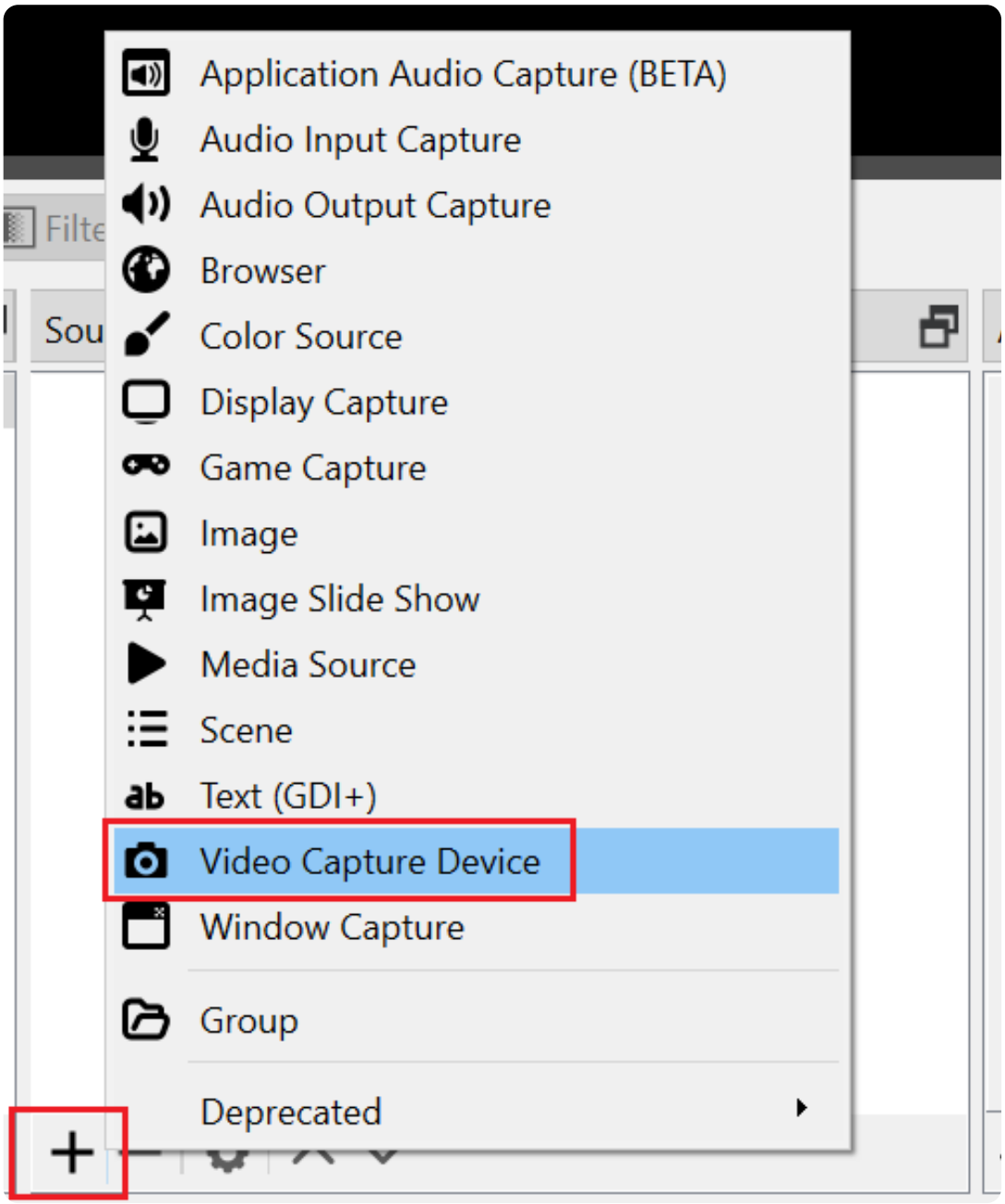


SynCapX preview and target-device control screen.

1. Launch SynCapX . The target device's screen appears in the center preview window.
2. Left-click once inside the preview to begin controlling the target device.
3. To return keyboard and mouse control to the host PC, press **Esc**, then move the mouse pointer.

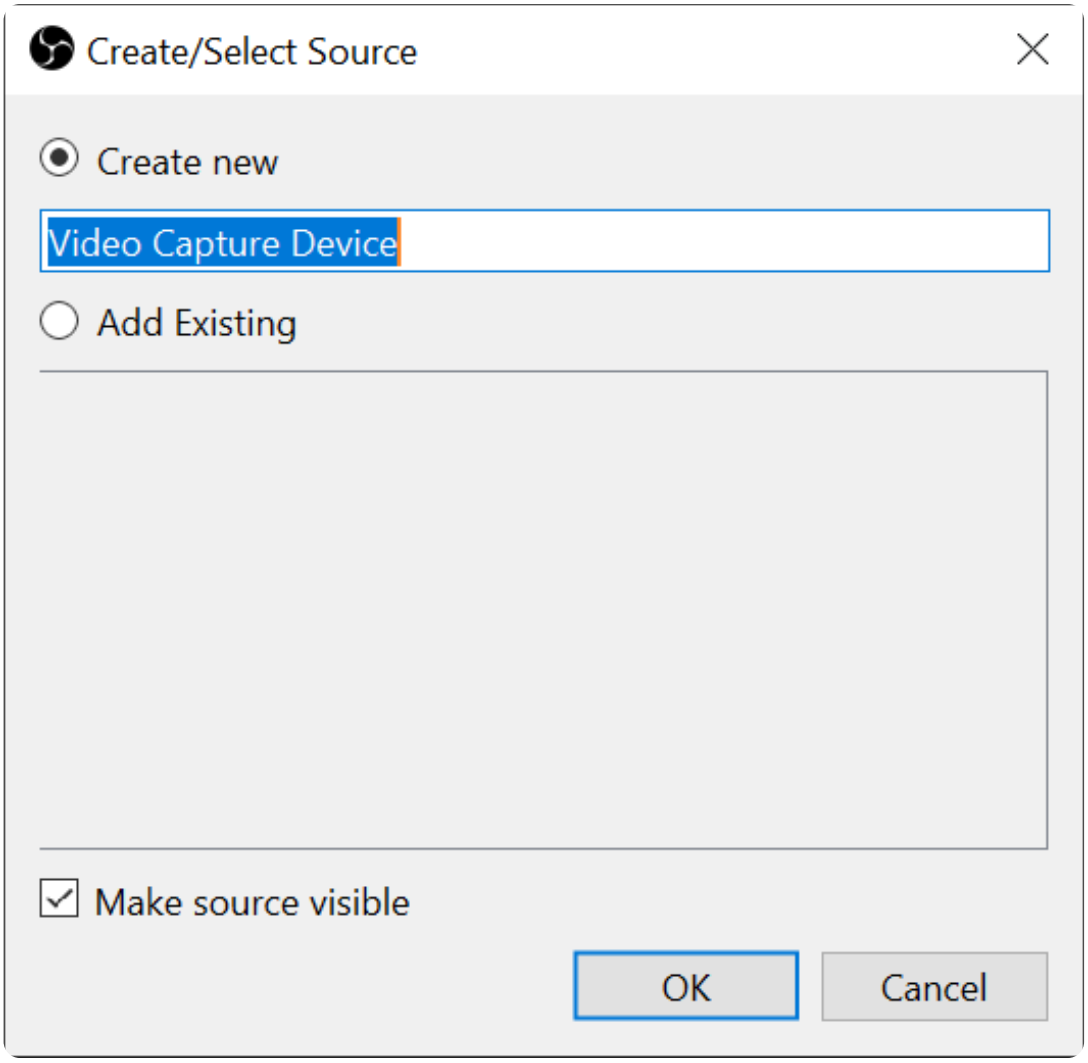
Appendix 2: Configuring OBS Studio

1. Add a Video Capture Device source.



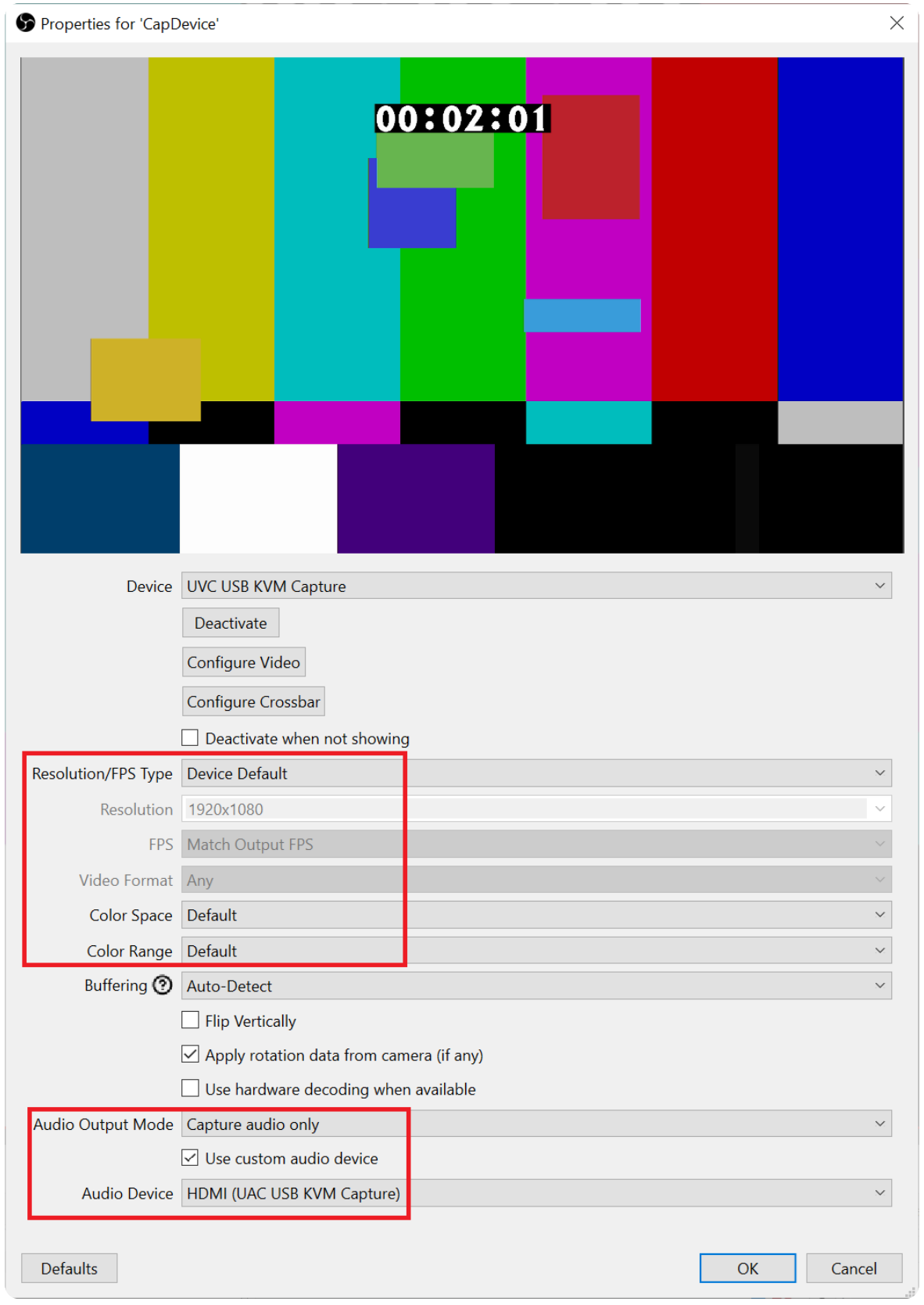
Add a Video Capture Device source in OBS Studio.

2. Keep the default source name, then select OK.



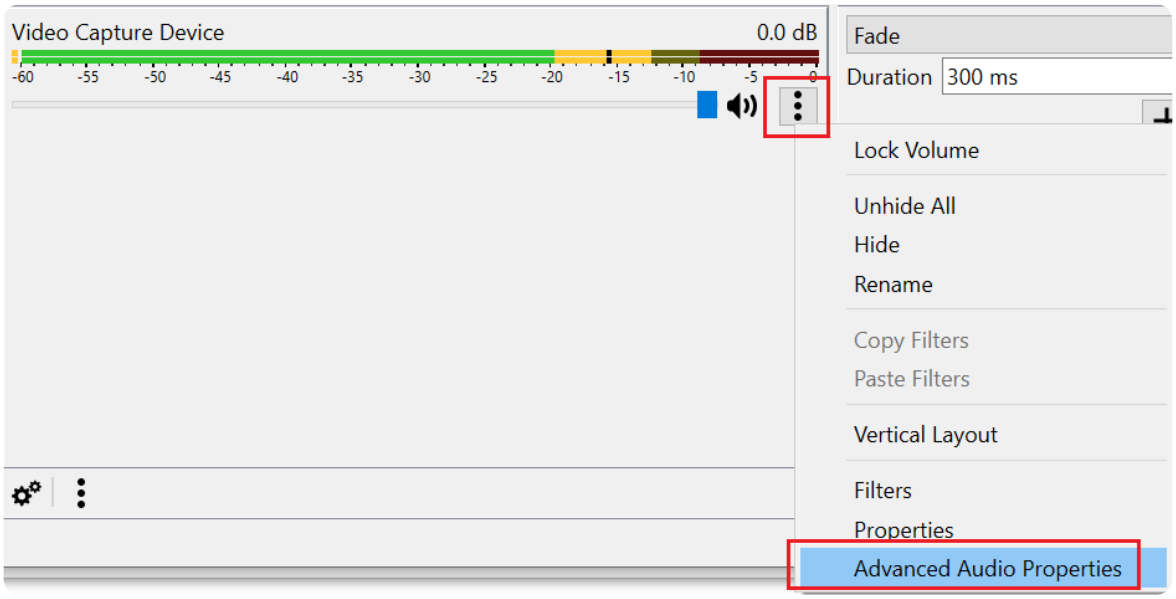
Create a new Video Capture Device source.

3. Configure the capture device, resolution/FPS type, video format, color space, and audio output mode as shown below.



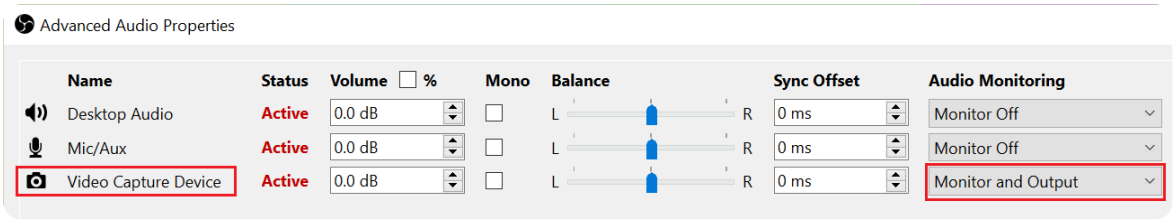
Example OBS video-capture properties for the DK519.

4. Open Advanced Audio Properties from the Audio Mixer.



Open Advanced Audio Properties from the Audio Mixer.

5. For the Video Capture Device, set Audio Monitoring to Monitor and Output to monitor the captured audio in OBS.



Select Monitor and Output in Advanced Audio Properties.

Limitation: OBS Studio can capture video and audio from the DK519, but it does not support the target-device control functions available in SynCapX .