

BU113G2

CamStream 4K



User's Guide

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Introduction

This document is your User's Guide for the **CamStream 4K (BU113G2)**. We have written this guide to provide you with the information you need to quickly and smoothly use the AVerMedia product.

After a quick introduction of the **CamStream 4K**, we will dive into its key features, system requirements, and technical specs and show you how to set up and install the device. Lastly, this guide will finish with a link to our technical support team and with some brief information on AVerMedia's background.

Thank you for taking the time to use and try out our latest device, we hope you enjoy using it as much as we enjoyed making it. If you have any questions or suggestions on our products or need any further editorial assistance, please don't hesitate to contact us.

CamStream 4K (BU113G2)

Capture Without Compromise

The **CamStream 4K BU113G2** is a professional-grade HDMI video capture device designed for content creators, streamers, and professionals who want to connect DSLR, mirrorless, or camcorders to their PC or Android phone. With support for up to **4K60 video capture**, it turns your high-end camera into a powerful streaming and recording tool—ideal for YouTube, Twitch, webinars, and live productions.

4K60 Capture, True-to-Life Color, and HDR Support

Experience ultra-clear visuals with up to 4K60 capture via MJPEG, perfect for delivering crisp and detailed high-resolution video. For creators who prioritize color accuracy, RGB24 ensures uncompressed, vibrant output that stays true to your camera's original tones. Need more dynamic contrast? P010 format enables HDR input capture, adding depth and realism to every frame—ideal for professional-grade production, streaming, and presentations.

Plug-and-Stream Simplicity

Designed for ease of use, BU113G2 features **plug-and-play USB-C connectivity**, eliminating the need for drivers. Whether you're on a PC, iPad or Android phone (UVC supported), setup is quick and hassle-free. The compact size and **tripod-mountable 1/4" thread** make it perfect for portable or professional studio use.

Designed for Real Creators

From its **dual-side elegant design** to the included **cold shoe mount** accessory, BU113G2 blends form and function. Whether mounted on a rig, tripod, or camera cage, it integrates seamlessly into your setup. It's not just a capture card—it's a flexible tool that adapts to how and where you create.

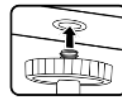
Key Features



Camera and Camcorder Video Capture



Ultra-Low Latency Audio & Video in Sync



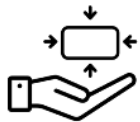
Tripod-Mountable Design



Plug and Play

4K60

Record 4K60 Video



Compact and On-the-Go



Multiple Video Format Record



True Color Images

- **Camera and Camcorder Video Capture**

Connect your DSLR, mirrorless camera, or camcorder to your computer and instantly upgrade your video quality for live streaming, recording, or video conferencing.

- **Ultra-Low Latency / Audio & Video in Sync**

Enjoy near real-time video transmission with perfectly synchronized audio—ideal for live broadcasts, interviews, or virtual events.

- **Tripod-Mountable Design**

Built-in 1/4" thread and included cold shoe mount let you securely attach the device to tripods, camera rigs, or cages for stable, professional setups.

- **Plug and Play**

No drivers required—simply plug into your USB port and start streaming or recording right away on most systems.

- **Record 4K60 Video**

Capture ultra-high-definition footage at up to 4K 60fps with incredible clarity—perfect for professional content creation.

- **Compact and On-the-Go**

Lightweight and sleek, the device fits easily in your pocket or gear bag, making it ideal for creators who need mobility and performance.

- **Multiple Video Format Record**

Supports MJPEG, RGB24, P010, YUY2, and NV12—giving you the flexibility to choose the format that fits your workflow and content style. If you're aiming for top-quality streaming or recording with a professional camera, formats like P010 and RGB24 can make a real difference.

- **True Color Images**

With RGB24 and HDR video input support, enjoy richer colors and more accurate visuals that stay faithful to what your camera captures.

A Design That Puts User Experience First

ID has always been AVerMedia's soft power. Staying true to AVerMedia's design DNA, it carries forward the golden ratio style from the GC553G2.

The LED light echoes the red dot from the AVerMedia logo. CamStream 4K also features a built-in digital camo pattern as part of its look. Its curved body not only improves grip, but also brings visual balance to the overall design.

CamStream 4K features a built-in one-fourth inch thread. By using our accessory adapter, it can be securely attached to the camera's hot shoe, so you don't have to worry about the CamStream 4K swaying or affecting the shooting due to the cables hanging on both sides.



System Requirements

Windows® 10 x64 or later

- **Desktop:** Intel® Core™ i5-6XXX / AMD Ryzen™ 3 XXX or above +
NVIDIA® GeForce® GTX 1060 / AMD RX5700 or above
- **Laptop:** Intel® Core™ i7-7700HQ + NVIDIA® GeForce® GTX 1050Ti or above
- 8 GB RAM recommended (Dual-channel)

macOS 14/15 or later

- Apple M1 or 3.6 GHz quad-core Intel Core i7
- Apple M1 or Radeon Pro 555 with 2 GB of VRAM
- 16 GB of 2400 MHz DDR4 memory
- For **4K60 MJPEG capture**, requires M1 Ultra / M2 Ultra or above
- **HDR capture and RGB24 format are not available for macOS**

iPadOS 17 or later

Technical Specifications

Interface	USB 3.2 (Gen 1) Type-C (plug and play, UVC)
Input	HDMI 2.0
Output	USB 3.2 (Gen 1) Type-C
Max Supported Resolutions (Video Input)	3840x2160p60 HDR/2560x1440p144 HDR/ 1920x1080p240 HDR
Max Recording Resolution	<ul style="list-style-type: none"> • MJPEG: 3840x2160p60, 3440x1440p60, 2560x1440p144, 2560x1080p144, 1920x1080p144 • NV12: 3840x2160p30, 2560x1440p60, 2560x1080p60, 1920x1080p120, 1280x1024P60 • YUY2: 2560x1080p60, 1920x1200p60, 1920x1080p60, 1280x1024p60 • P010(HDR10) (Windows only): 1920x1080p60, 1280x1024p60 • RGB24 (Windows only): 1920x1080p60, 1280x1024p60
Video Format	MJPEG / NV12 / YUY2 / P010 (HDR) / RGB24
Dimension (W x D x H)	80.8 x 40.8x 14.5 mm (3.18 x 1.61 x 0.57 in.)
Weight	26 g (0.92 oz.)
Supported AVerMedia Software	<ul style="list-style-type: none"> • AVerMedia Assist Central Pro • AVerMedia Streaming Center (Windows only) • Firmware update tool
What's in the Box	<ul style="list-style-type: none"> • CamStream 4K (BU113G2) • USB Type-C to Type-A Cable (1 m/3.28 ft.) • 1/4" Cold/Hot Shoe Mount (Adapter) • Quick Start Guide



* Specifications are subject to change without prior notice. Please refer to our webpage for the latest details.

* Accessories may vary slightly depending on the country of purchase.

Capture Capability Breakdown by Video Format

Input: HDMI 2.0

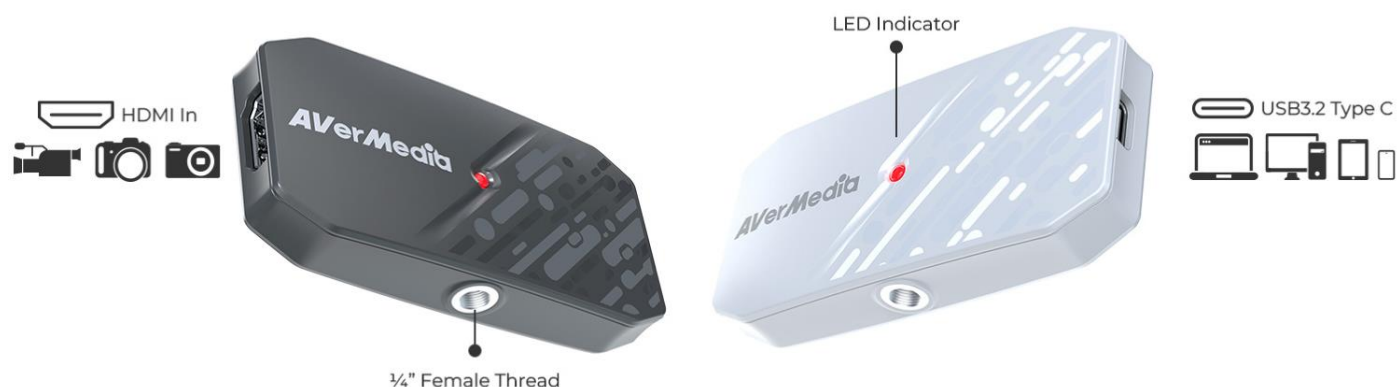
Output: USB 3.2 (Gen 1) Type-C (5Gbps)

Capture Resolution	Video Format	Max Frame Rate
3840x2160	MJPEG	60
	NV12	30
	YUY2	-
	P010 (HDR)	-
	RGB24	-
2560x1440	MJPEG	144/120
	NV12	60
	YUY2	-
	P010 (HDR)	-
	RGB24	-
1920x1080	MJPEG	144/120
	NV12	120/60
	YUY2	60
	P010 (HDR)	60
	RGB24	60
1280x720	MJPEG	-
	NV12	60
	YUY2	60
	P010 (HDR)	60
	RGB24	60



Note: It's recommended to use more powerful hardware when working with higher-resolution video formats to ensure smooth performance.

Product Overview & Connection



LED Indications

Flashing Blue	Waiting period (Approx 5 Sec)
Solid Blue	Ready
Flashing Blue	Streaming
Flashing Red	Recording / Disk almost Full
Solid Red	Disk Full, Error: device anomaly
Flashing Green	Connected to USB 2.0

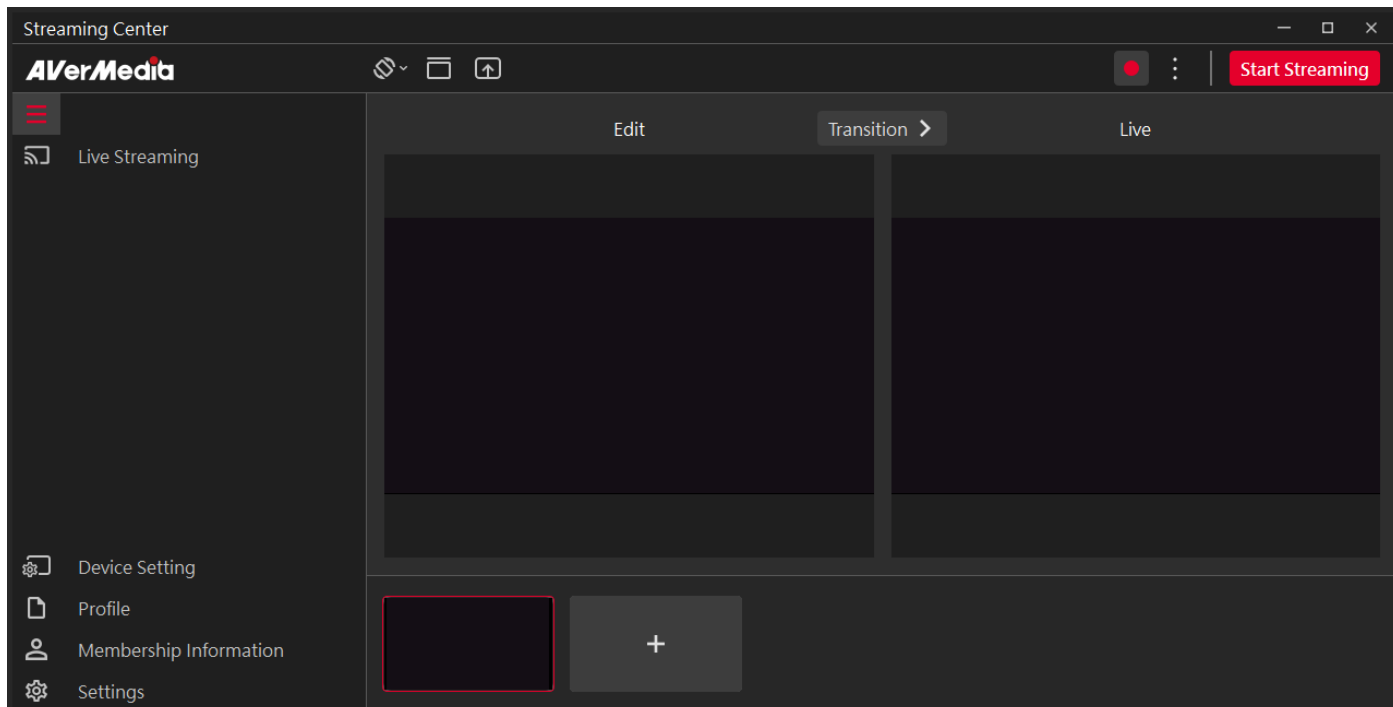
Streaming Center Software

Overview

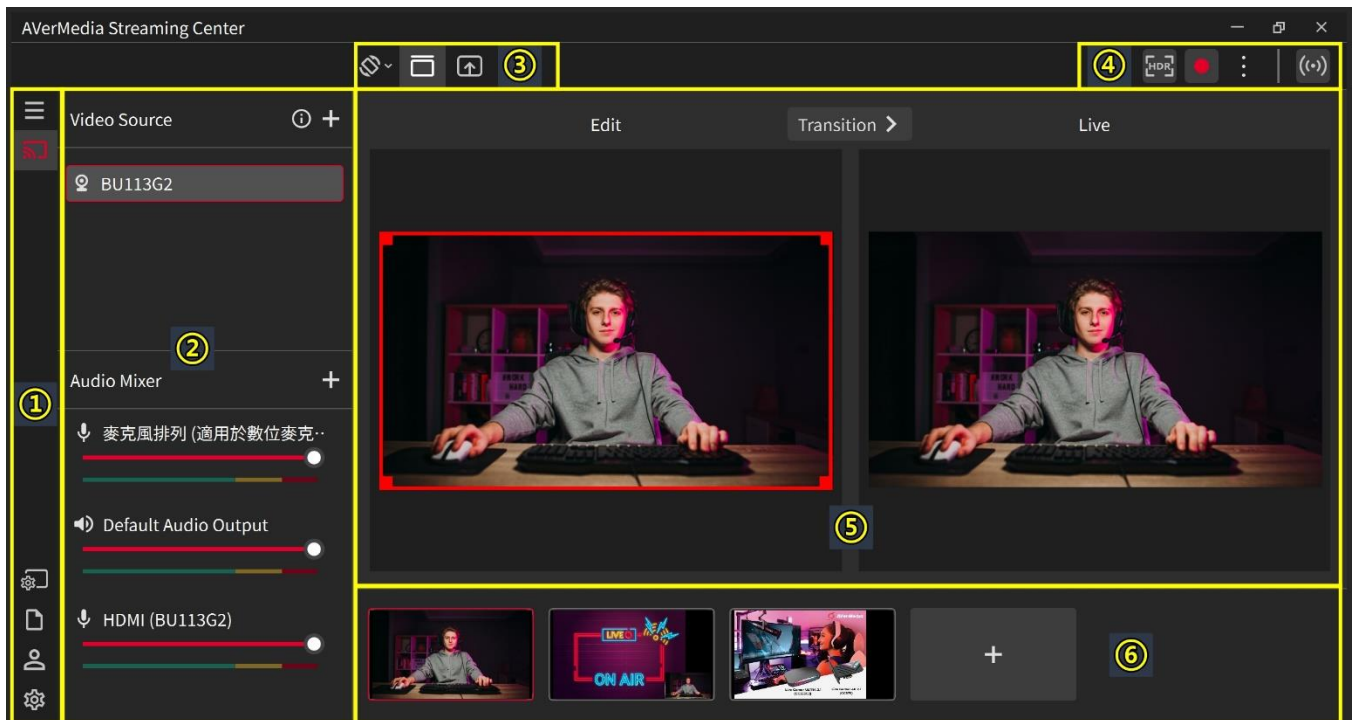
Streaming Center is a powerful solution that provides a centralized platform for streaming devices such as capture cards, webcams, and microphones through an intuitive interface. Users can seamlessly manage multiple video and audio sources, customize scenes, adjust audio settings and fine-tune production elements before going live using Streaming Center's advanced layout editing tools.


Installation

Visit your AVerMedia product webpage and [download Streaming Center](#). Install it by following the step-by-step instructions. Once installed, you'll be greeted with an interface as shown below.



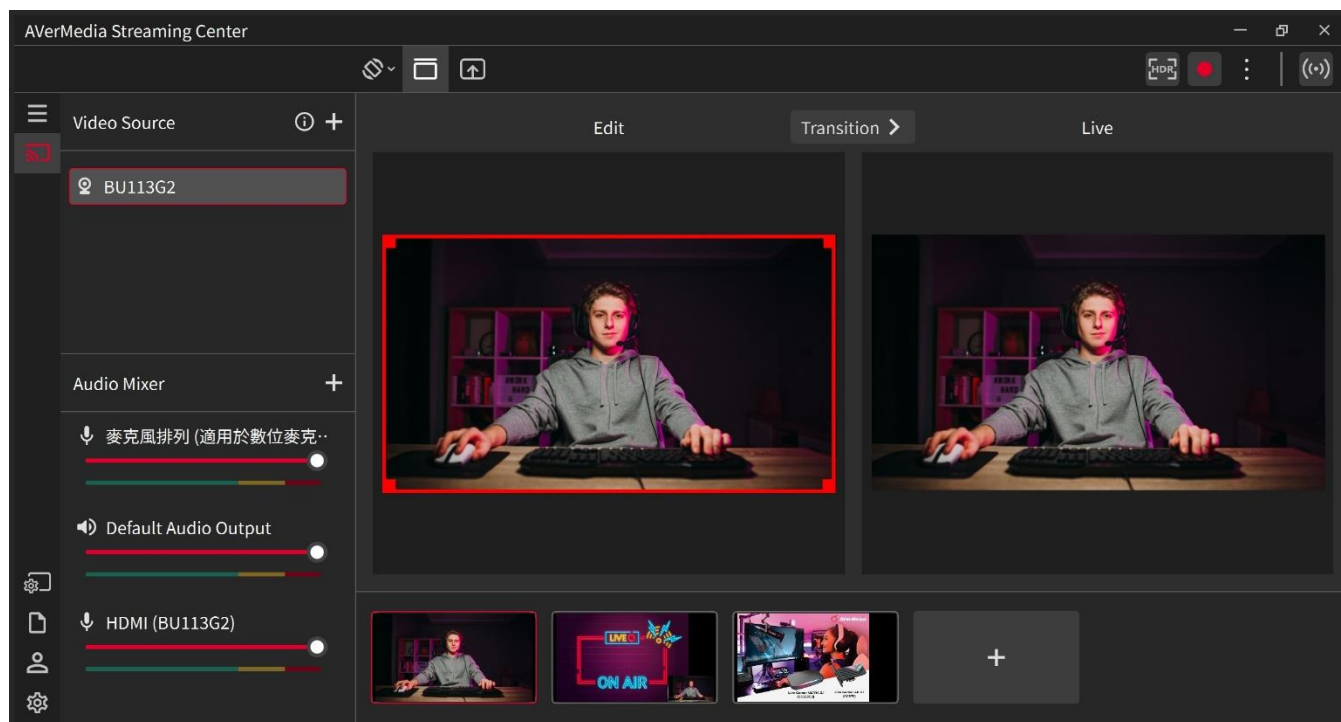
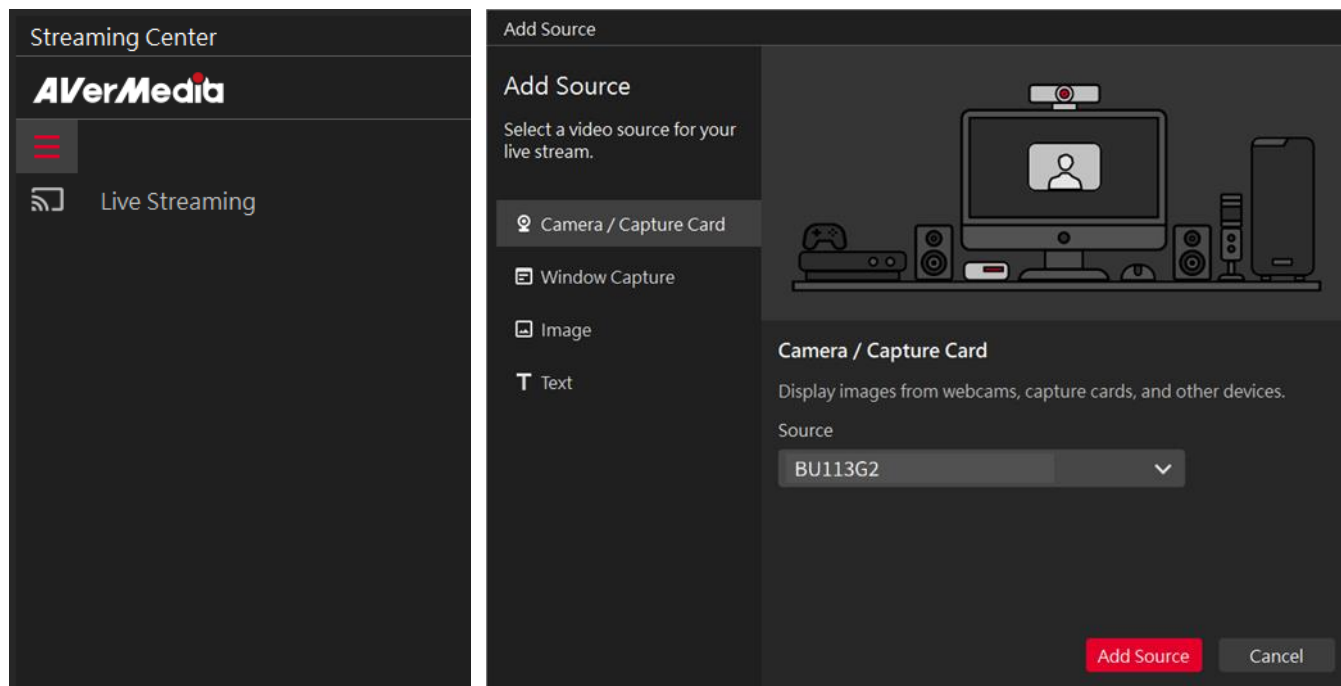
Main UI



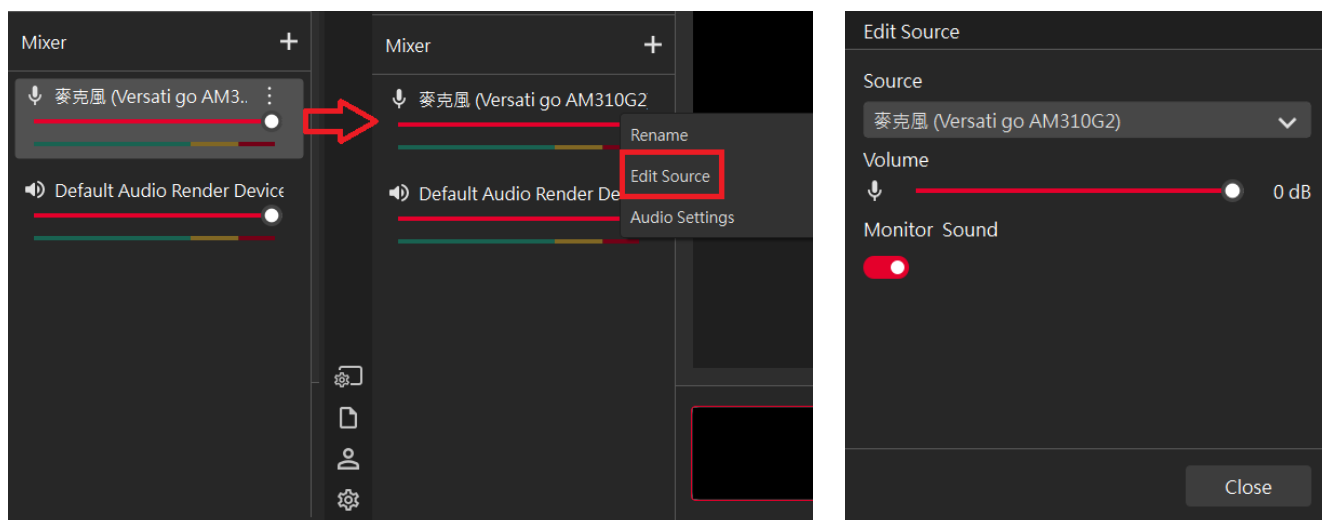
1. Function Bar: Expand it by clicking the 3-line icon. This section include the essential functions: Live Streaming. It also has other functions that allow quick access to Device Setting, Save Folder, Profile, and Settings. Click the Device Setting  icon to enter the device setting pages.
2. Scene Device Panel: This area lets users add devices to the aforementioned three essential functions for each scene. For example, when a scene (from section 6) is selected, you can add cameras, capture cards to Source, and microphones to Mixer in this panel.
3. This section includes functions to change screen orientation, switch between Director Mode and Easy Mode, and open the Image Detection Preview Window.
4. Enable/Disable HDR Recording mode, Record, and Start/Stop Streaming.
5. Left: Edit screen. Right: Live screen. Click Transition to switch whatever is currently in the Edit screen to the Live screen.
6. Scene panel: You can add/delete scenes here or select a scene to be edited in the Edit screen.

Getting Started

Add your Source: Click the Live Streaming button in the Function Bar and start adding your source devices to the panel. Click the + button to add your video source from camera/capture card.

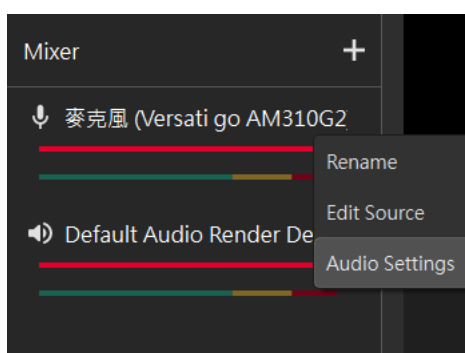


Upon connecting a USB microphone, it should automatically be set as the default audio input. If it doesn't appear, click the 3-line icon, select "Edit Source", and manually choose the microphone. To monitor its sound, enable "Monitor Sound."



Audio Tuning (For microphones or webcams with built-in mic)

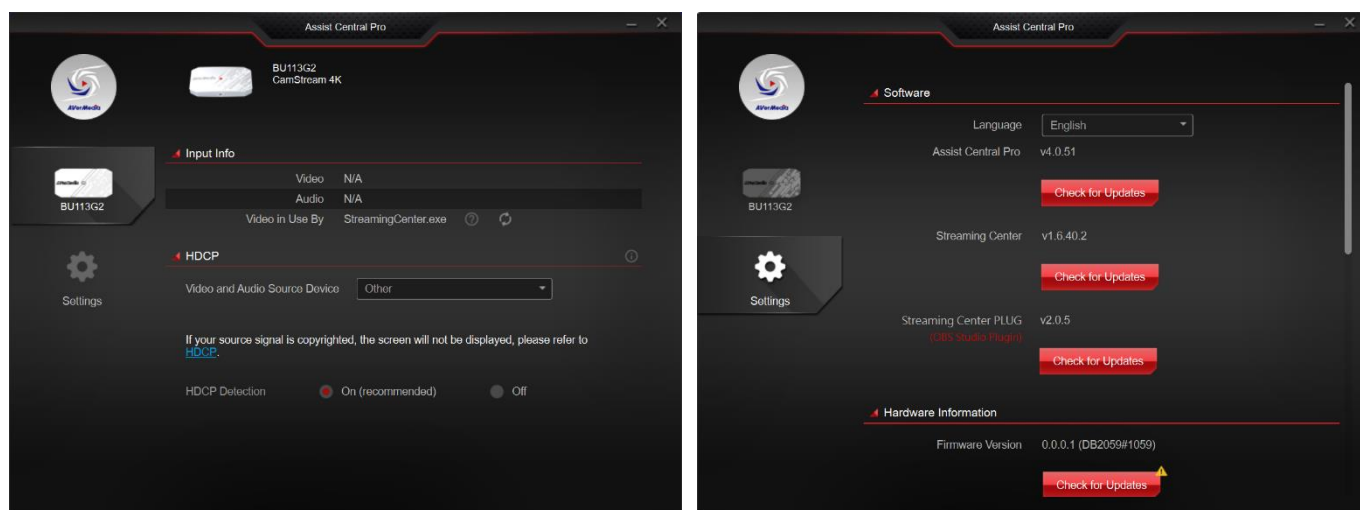
Click the “Audio Setting” to access multiple audio tuning features including AI noise reduction, EQ adjustments, and output gain control. It also supports virtual microphone output for third-party software to use the adjusted audio.



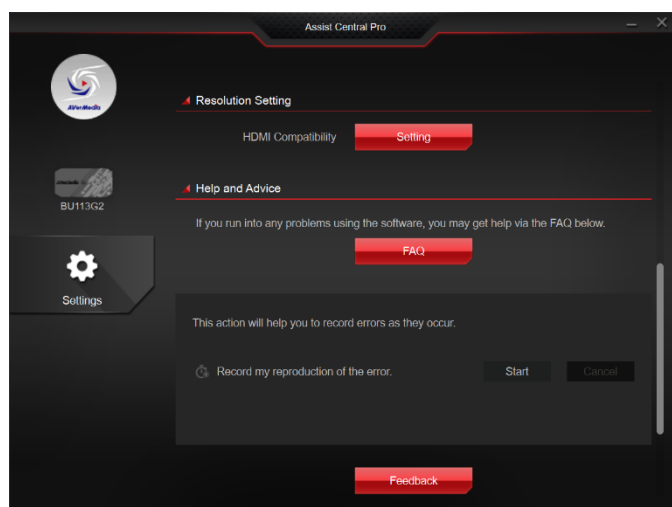
Assist Central Pro Software

Assist Central Pro is an unified software that consolidates and elevates the functionalities of AVerMedia Assist Central and Gaming Utility into a single, comprehensive platform designed for efficiency, usability, and scalability.

It allows you to manage your AVerMedia **capture card configuration** by showing device information, controlling device settings, issue reporting, and more.

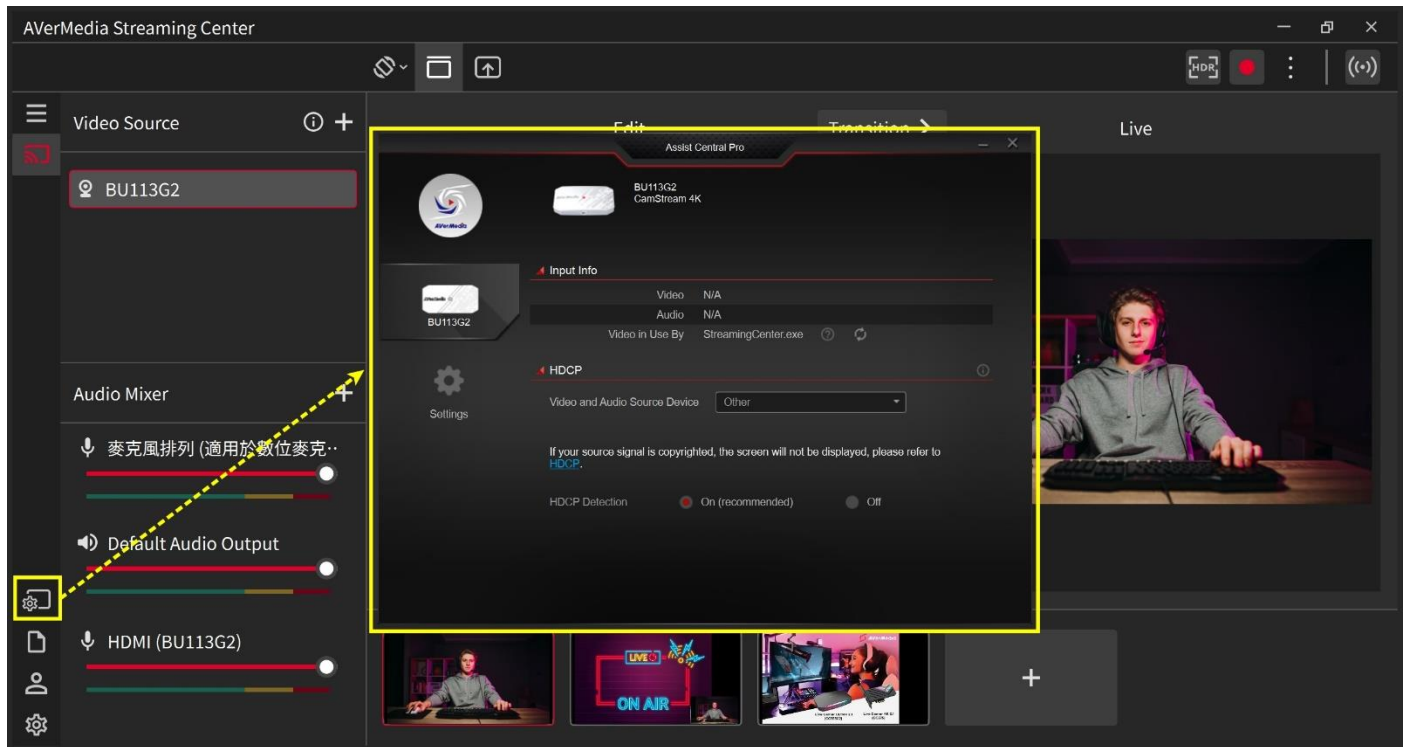


It helps **detect the latest drivers, firmware, and software updates** available for your connected AVerMedia device.



By **integrating with Streaming Center**, Assist Central Pro ensures faster and more efficient connections for updates, configure settings, and issue reporting.

- When accessing the “Device Settings” in the Streaming Center, it will automatically open the Assist Central Pro for your device.



Download AVerMedia Softwares



Contact Us

Please contact us [here](#) should you have any questions or suggestions.

About AVerMedia

AVerMedia Technologies specializes in digital video and audio technology. We provide cutting-edge, high-quality audio and video peripherals, professional capturing and streaming solutions, Edge AI technology, video collaboration solutions, and more. Our mission is to provide an enriched user experience and effective communication in education, content creation, and video communication via innovative and eco-friendly solutions.

AVerMedia is guided by a philosophy of contributing to society- whether through products that change customers' lives for the better or by ensuring our operations are socially responsible.

Connect with AVerMedia:

Website: <https://www.avermedia.com/>

LinkedIn: <https://www.linkedin.com/company/avermedia-technologies>

Appendix – Supported Software

CamStream 4K can directly send video to various applications, including but not limited to:

- **AVerMedia Streaming Center (Windows only)**
- **OBS Studio**
- **CameraFi Live (Android & iPadOS)**
- **USB Camera (Android & iPadOS)**
- **CapView (Android & iPadOS)**
- **Camo Studio (iPadOS)**

CamStream 4K uses a **UVC** driver, which means it is universally compatible with any conference software that is able to use webcams, like:

- **Zoom**
- **Microsoft Teams**
- **Google Meet**
- **Cisco WebEx Cisco Webex**
- **Skype**

Appendix – F.A.Q.

Q: Why does the video from BU113G2 look a bit blurry in OBS or other software?

A: This may happen if your video source is outputting a resolution higher than 1080p, but the capture card is downscaling it to 1080p, making the image appear less sharp.

Please open **Assist Central Pro** and check the input resolution.

If the source resolution is higher than Full HD (1920x1080) but not one of BU113G2's "preferred resolutions" (e.g., 2560x1440p), the capture card may default to outputting 1080p60.

This means that even though your signal is high-res, the output will look slightly blurred in OBS or other apps.

Here's how to fix it:

1. Check the resolution output settings of your source device (e.g., laptop, PC).
2. Open **Assist Central Pro** and set the preferred resolution based on your source.

Once this is done, the video should appear much clearer in OBS or your streaming/recording software.

Q: Why is audio and video out of sync when using OBS Studio on Windows?

A:

1. We recommend using **Streaming Center**, which provides better performance.
2. In OBS, if you're monitoring audio from the "Video Capture Device," A/V sync issues can occur.
→ **Fix:** Disable audio from the video capture device, and instead monitor from the audio input capture.
3. In **Assist Central Pro**, set VRR (Variable Refresh Rate) to Off.

Q: Why does my video stutter when recording high-resolution, high-frame-rate gameplay with OBS on Windows?

A: We recommend using **Streaming Center**, which runs more smoothly and is optimized for this capture device.

Q: Why do I experience frame drops when using OBS with 4K60 MJPEG on Windows?

A: Again, we recommend switching to **Streaming Center** for better performance and smoother recording.

Appendix – Camera Setup Tips

To get the best video quality with CamStream 4K BU113G2, here are a few camera tips. These are general suggestions and may not apply to every camera.

Turn off Auto Power Off

Many cameras turn off by themselves to save battery. But for video calls or live streaming, you want the camera to stay on. Go to your camera's power settings and turn off auto shutoff.

Make Sure the HDMI Output is Clean

Sometimes cameras show extra info on the screen, like battery level or settings. You don't want that in your video. Check your HDMI settings and turn off "HDMI Info Display." Or press the "Info" button a few times to hide the icons.

Use a Power Adapter

Most cameras can't charge and work at the same time. Use an AC power adapter or a "dummy battery" so the camera runs like it's always on battery power.

Switch to Movie Mode

Find and turn on "Movie Mode" on your camera. It usually looks like a small film camera icon on the mode dial.