GC553Pro

LIVE GAMER ULTRA S

User's Guide

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Introduction

This document is your User's Guide for the **Live Gamer ULTRA S (GC553Pro)**. 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 **Live Gamer ULTRA S**, 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.

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Live Gamer ULTRA S (GC553Pro)

The **Live Gamer ULTRA S** is a powerful 4K video capture card designed primarily for **console gamers and streamers looking to elevate their craft**. In order to support the growth for aspiring streamers aiming to go pro, it delivers useful features for them to stand out in today's competitive landscape.

In the world of game streaming, standing out means delivering smooth visuals and an immersive experience your audience can feel. The Live Gamer ULTRA S addresses that need with high frame rate support up to **4K60**, **1440p144**, and **1080p240**, ensuring seamless gameplay recording. **Ultra-wide resolution compatibility (3440x1440 and 2560x1080)** for ultrawide gamers stay competitive edge with a wider field of view while streaming without sacrificing quality. Add in **RGB24 uncompressed visuals** for lifelike colors and **5.1-channel surround sound** for immersive audio, and you'll captivate your viewers like never before.

Support for tear-free **Variable Refresh Rate (VRR) recording via AVerMedia Streaming Center** software to provide you a simple and intuitive streaming/recording experience. Together with **Streaming Center Plug (OBS plugin)** to provide 5.1-channel capture for both OBS and Streaming Center users. Moreover, with **AVerMedia Assist Central Pro** which combines the latest software/firmware update detection and capture card device settings in a single and comprehensive tool, you'll enjoy streamlined workflows across software.

All of this comes with **innovative materials** and **enhanced power efficiency** compared to the previous model (GC553)—crafted to elevate your content creation while reflecting a commitment to mindful resource use.

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Key Features

- **HDR / VRR Pass-Through**

  Enjoy seamless gameplay while streaming or recording with up to **4K60**, **1440p144**, and **1080p240 HDR / VRR pass-through** resolutions. Maintain **ultra-smooth visuals** and high performance without compromising your gaming experience.

- **High Frame Rate Capture**

  Record fast-paced action with a high frame rate of up to **4K60**, **1440p144**, **1080p240**, ensuring every movement is captured with **ultra-smooth** precision, perfect for slow-motion replays and high-impact content.

- **Ultra-wide Resolutions Support**

  No more compromises for ultrawide gamers—support for **3440x1440** and **2560x1080** resolutions lets you capture and stream the full breadth of your 21:9 gameplay. Whether you're showcasing the **immersive advantage of a wider field of view** or sticking with classic 16:9, your content stays true to your gaming experience.

- **True Color Precision with RGB24**

  Uncompressed RGB24 delivers a more **immersive** and **visually appealing experience** for your audience. By preserving **full-color fidelity**, it ensures every shade and detail **feels more real**, drawing viewers into your gameplay.

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- **VRR Pass-Through and Recording**

  Enjoy seamless gameplay with **VRR pass-through**, while AVerMedia Streaming Center software lets you **record VRR footage** as it happens with exclusive technology, free from screen tearing or stuttering. (Please refer to page 15 for the VRR recording steps)

- **5.1 Multi-Channel Audio**

  Experience **immersive 5.1 surround sound** while streaming, delivering an enhanced gaming experience for streamers, with **multi-channel audio captured*** for high-quality recordings.

  *The 5.1-channel capture is available in both **Streaming Center** and **Streaming Center Plug (OBS Plugin)** and is only supported on **Windows**. (Please refer to page 16 & 18 for the settings.)

- **Less Power Consumption**

  Compared to the previous model (GC553), the Live Gamer ULTRA S (GC553Pro) consumes 3.05W* **less power**, helping to **reduce heat generation** for more **stable performance** during extended use.

  *Based on internal calculations: GC553 – 5.75W; GC553Pro – 2.7W.

- **Innovative Materials**

  The Live Gamer ULTRA S features an **outer shell made with 60% Post-Consumer Recycled (PCR) plastic**, combining innovative materials with reliable performance. Available in both black and white, it suits your style while reflecting a commitment to mindful resource use.

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System Requirements

Windows® 10 x64 / 11 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 13 / 14 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

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Technical Specifications

Interface	UBS 3.2 Gen 1 Type-C (5Gbps)
Video Input & Output (Pass-Through)	HDMI 2.0
Audio Input & Output (Pass-Through)	HDMI 2.0
Max Pass-Through Resolution	2160p60 HDR/VRR,1440p144 HDR/VRR, 1080p240 HDR/VRR
Max Capture Resolution	2160p60, 1440p144, 1080p240 / 1440p30 HDR, 1080p60 HDR
Max VRR Record* Resolutions	1440p60, 1080p120, 1080p240 *Please use the Streaming Center software for VRR recording
Supported Resolution (Video input)	2160p, 3440x1440p, 1440p, 2560x1080p, 1080p, 1080i, 720p, 576p, 480p
Video Format	YUY2 / NV12 / RGB24 / P010 (HDR) / MJPEG
Dimension (W x D x H)	112.6 x 66.2 x 26 mm (4.43 x 2.6 x 1.02 in)
Supported AVerMedia Software	• AVerMedia Assist Central Pro • AVerMedia Streaming Center (Windows only) • AVerMedia Streaming Center Plug (OBS Plugin) • Firmware update tool
Weight	99 g (3.49 oz.)
What's in the Box	• Live Gamer ULTRA S (GC553Pro) • HDMI 2.0 Cable • Type C to Type A Cable • Quick Start Guide

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

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Pass-through and Capture Resolution Chart

◯: Can be captured in SDR

●: Can be captured in SDR or HDR

		Input Pass-Through Resolution				
		Ultra-wide (21:9)				
Output Capture Resolution		3440x1440 p100	3440x1440 p60	2560x1080 p144	2560x1080 p120	2560x1080 p60
Ultra-wide (21:9)	3440x1440 p60	◯	◯			
	2560x1080 p60	◯	◯	◯	◯	◯

		Input Pass-Through Resolution									
		16:9									
Output Capture Resolution		4K60	4K30	1440p144	1440p120	1440p60	1080p240	1080p144	1080p120	1080p60	1080p30
16:9	4K60	◯									
	4K30	◯	◯								
	1440p144	◯	◯	◯							
	1440p120	◯	◯	◯	◯						
	1440p60	◯	◯	◯	◯	◯					
	1440p30	●	●	●	●	●					
	1080p240	◯	◯	◯	◯	◯	◯				
	1080p120	◯	◯	◯	◯	◯	◯	◯	◯		
	1080p60	●	●	●	●	●	●	●	●	●	
	1080p30	●	●	●	●	●	●	●	●	●	●

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Capture Capability Breakdown by Video Format

Capture Resolution	Video Format	Max Frame Rate
3840x2160	MJPEG	60
	NV12	30
	YUY2	-
	RGB24	-
	P010 (HDR)	-
3440x1440 (Ultra-wide)	MJPEG	60
	NV12	-
	YUY2	-
	RGB24	-
	P010 (HDR)	-
2560x1440	MJPEG	144/120
	NV12	60
	YUY2	50
	RGB24	30
	P010 (HDR)	30
2560x1080 (Ultra-wide)	MJPEG	-
	NV12	60
	YUY2	60
	RGB24	-
	P010 (HDR)	-
1920x1080	MJPEG	240
	NV12	120/60
	YUY2	60
	RGB24	60
	P010 (HDR)	60

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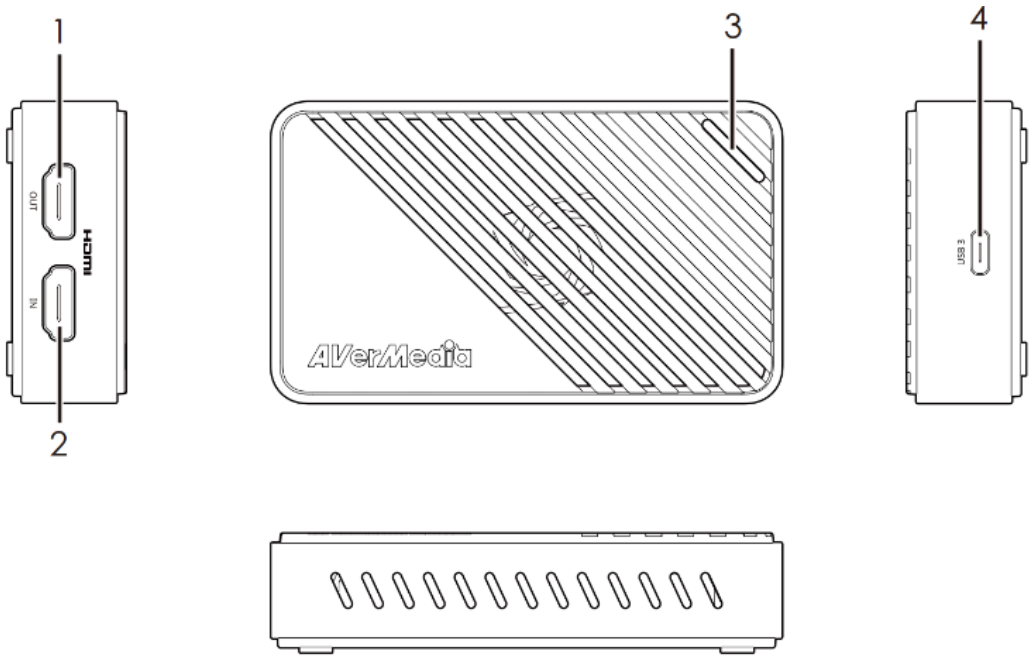
Product Overview



1	HDMI Output	**3**	LED Indicator
2	HDMI Input	**4**	USB 3.2 Type-C Port

LED Indications

Solid Blue	Ready
Slow Flashing Red	Recording
Slow Flashing Blue	Streaming
Fast Flashing Red	Disk Almost Full
Solid Red	Solid Red Error: Streaming / Recording Stopped
Flashing Green	Connected to USB 2.0
Flashing Red	Error: Device Anomaly

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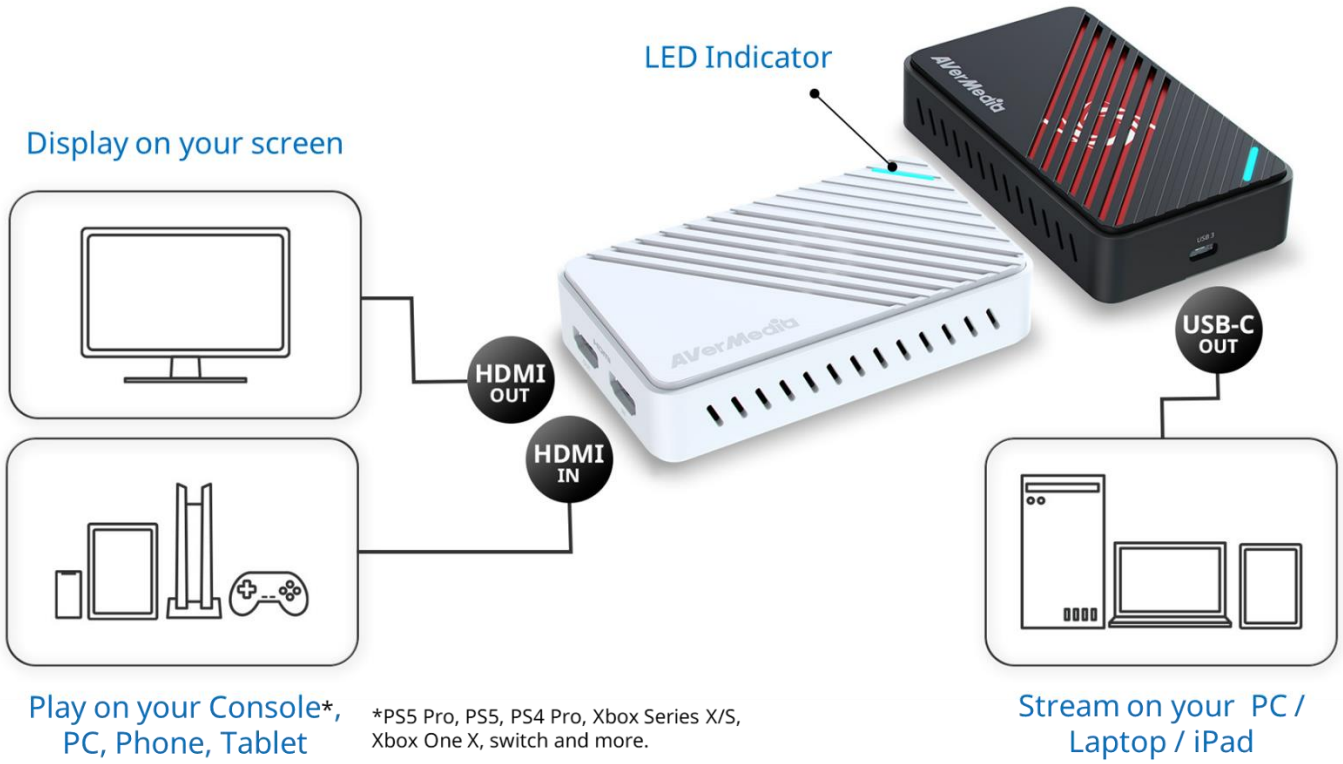
Installation



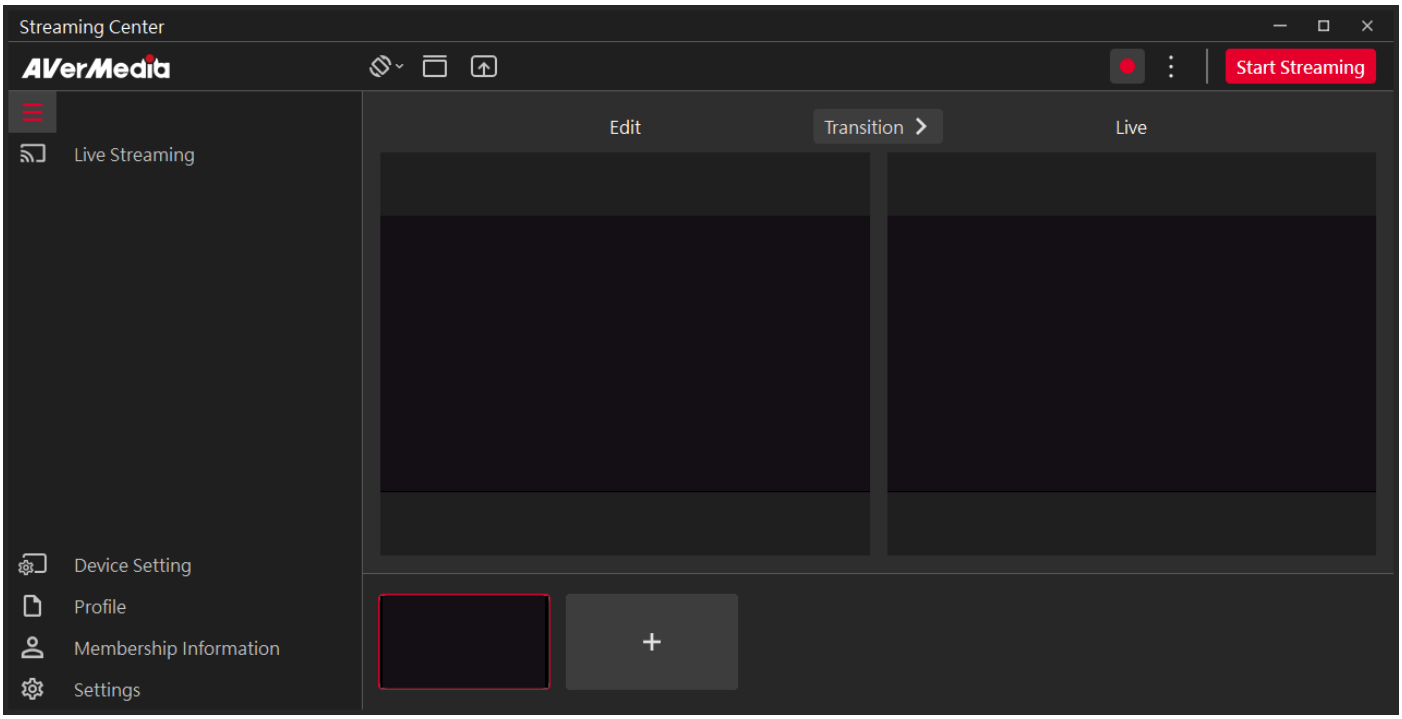
Streaming Center Software

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.



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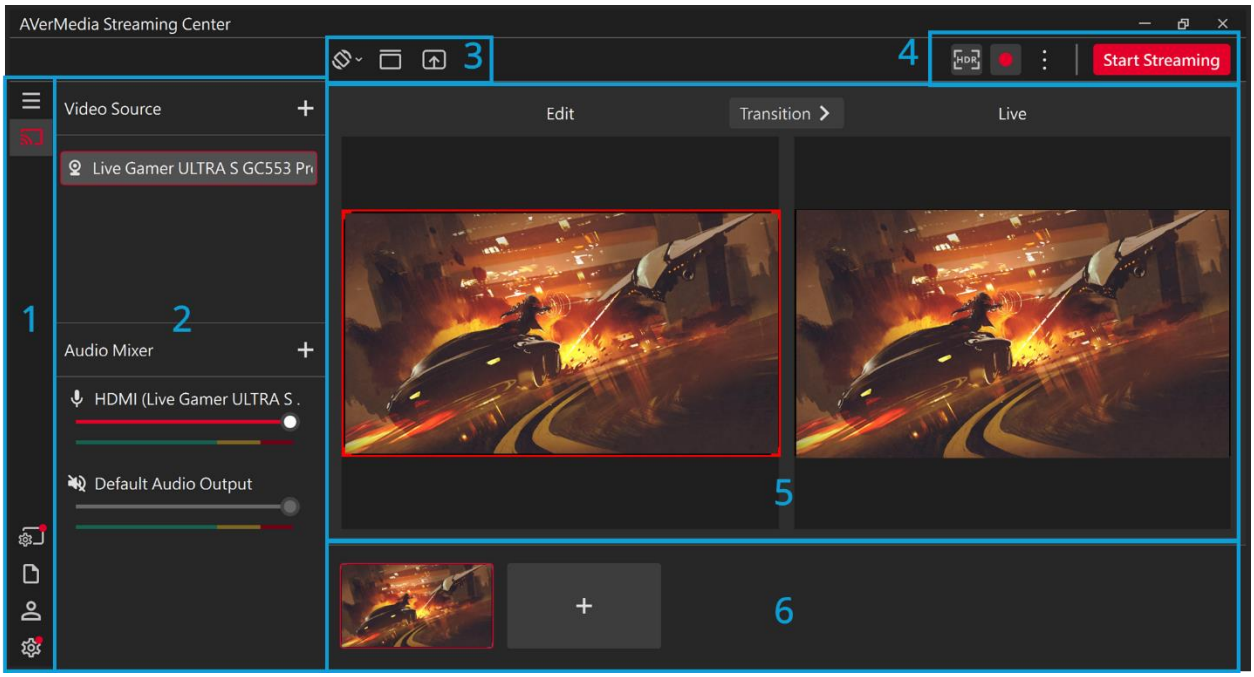
Main UI



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.
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.

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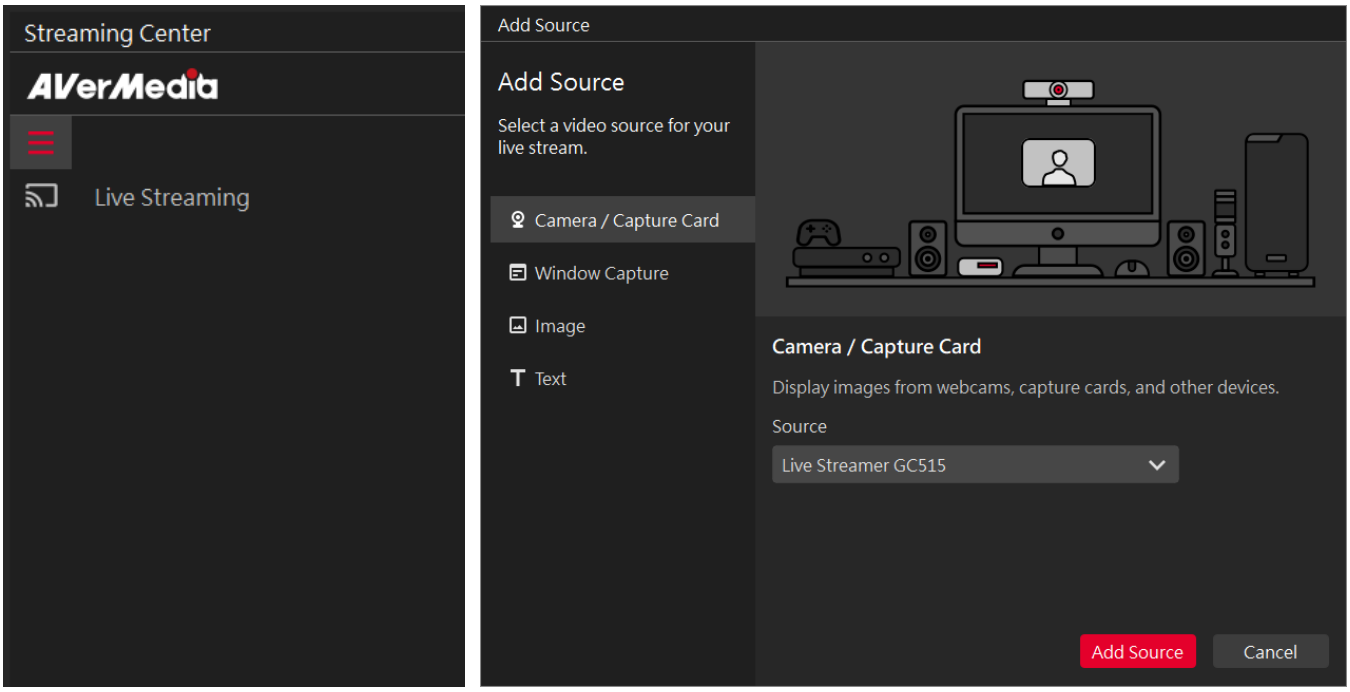
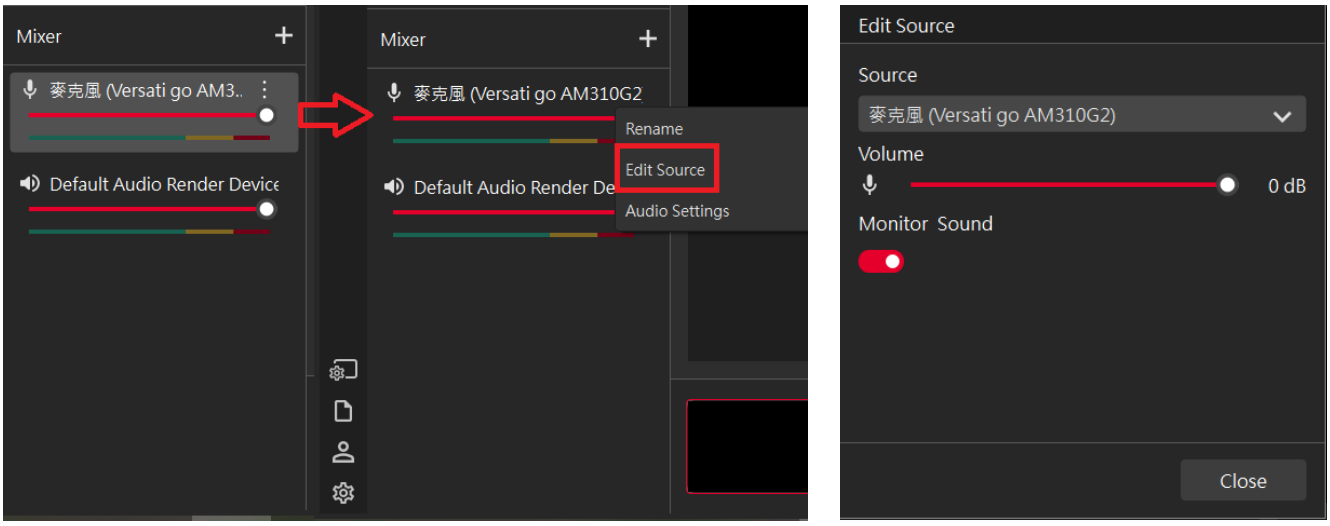
Getting Started

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.



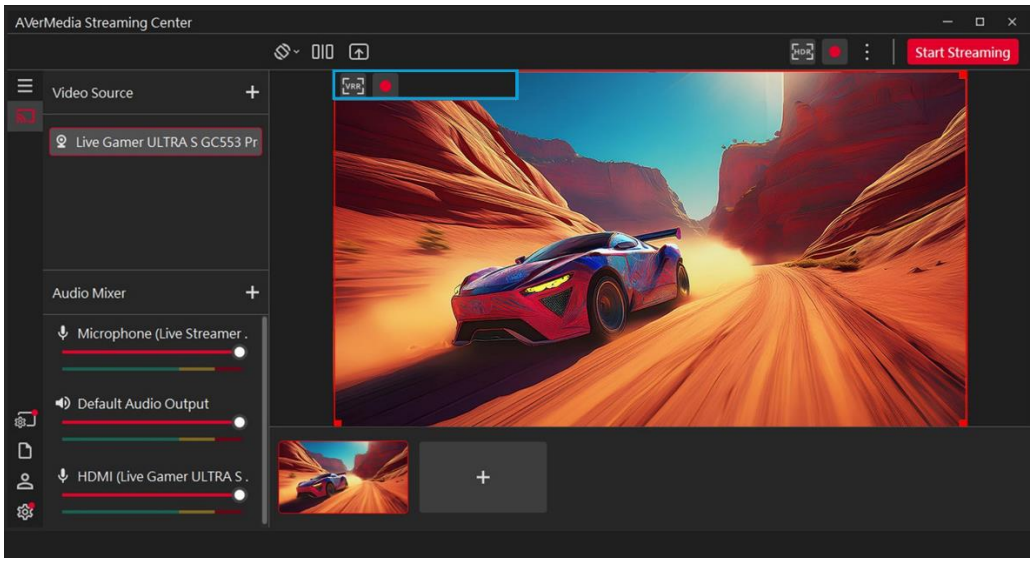
Upon connecting a USB microphone, it should automatically be set as the default audio input. If it doesn't appear, click the 3-line icon, select "Edit Source", and manually choose the microphone. To monitor its sound, enable "Monitor Sound."

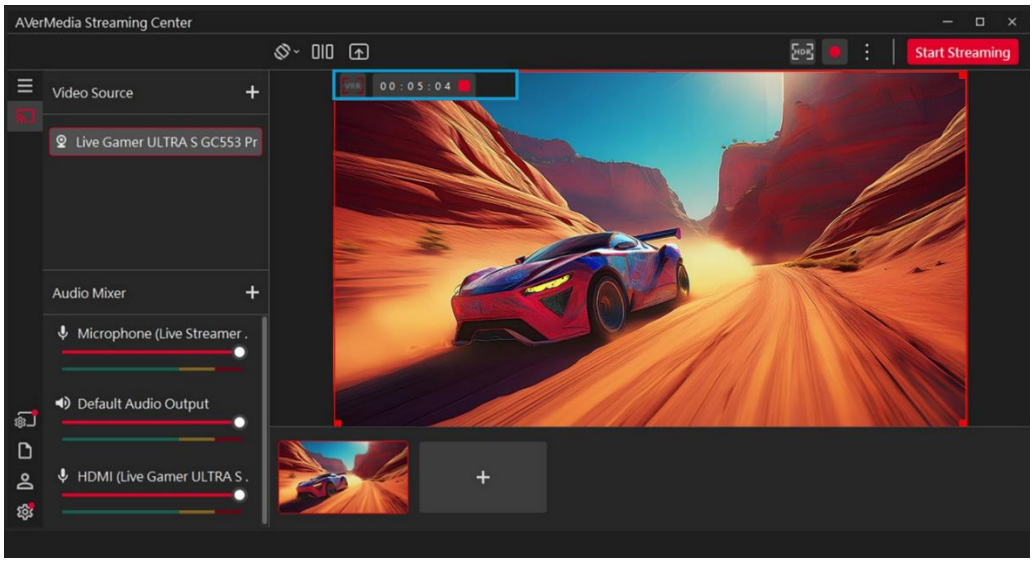


VRR Recording

To record VRR footage, simply hover your mouse cursor over the desired video source (e.g., capture card). A "VRR" button will appear in the upper left corner on the screen. Click "VRR" to enable/disable VRR recording mode, then click "Record" to start recording VRR footage.

Note: This function only supports recording from a single video source, and to faithfully record VRR footage, the video source needs to be VRR-capable and have the VRR function activated.





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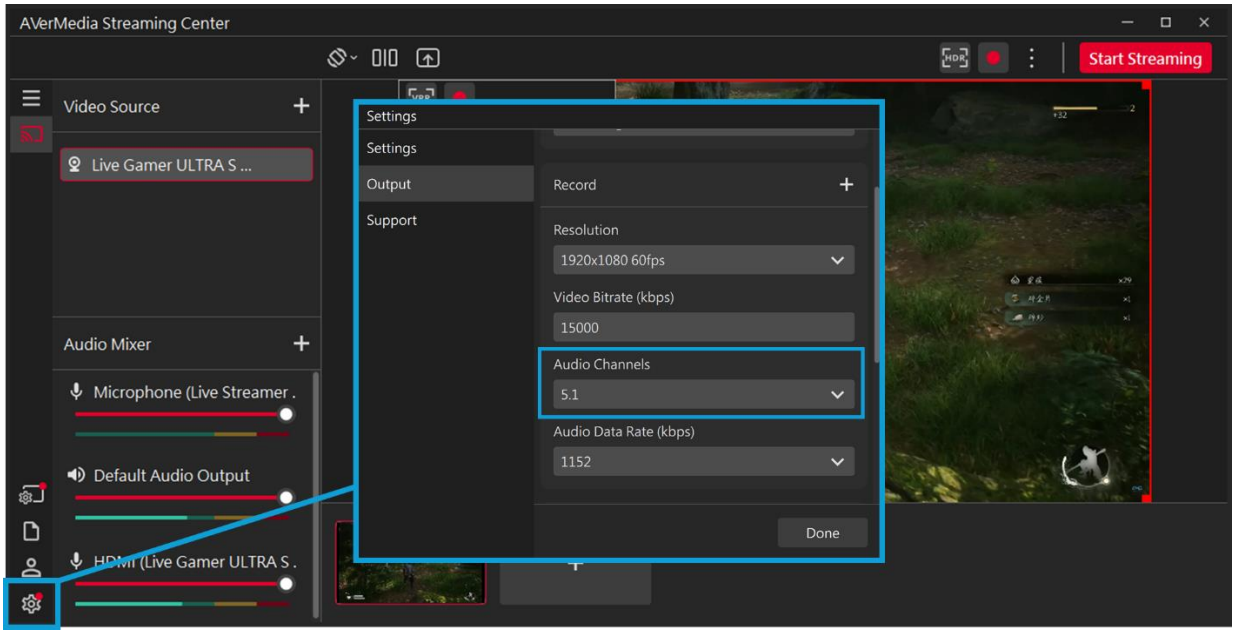
5.1 Multi-Channel Audio Capture

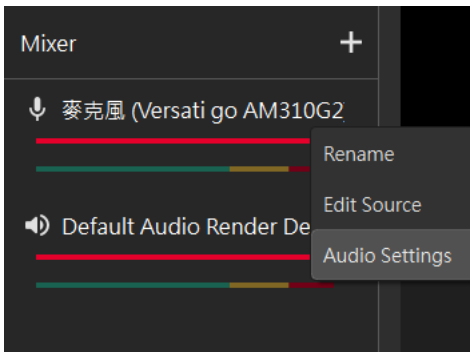
Click “Settings” in the bottom left corner and choose “Output” for the output video settings.

Then select “5.1” from Audio Channels before recording.



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.



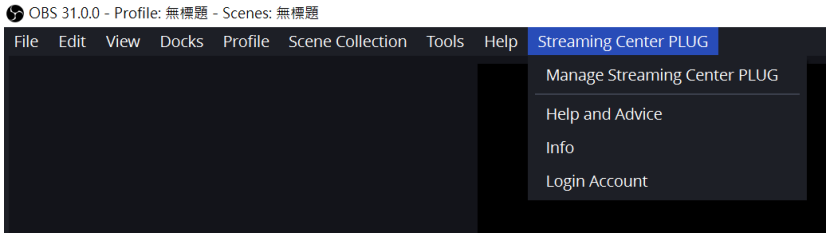
Streaming Center Plug (OBS plugin)

Overview

Streaming Center Plug is a specialized OBS plugin designed to bring select Streaming Center features directly into your OBS workflow. Tailored for selected AVerMedia capture card, it enhances functionality with advanced tools like 5.1-channel audio capture for GC553Pro.

Installation

Visit your AVerMedia product webpage and download Streaming Center Plug. Install it by following the step-by-step instructions. Once installed, it will be shown on OBS as below. You can use the “Manage Streaming Center PLUG” to check the functions with your AVerMedia capture card.



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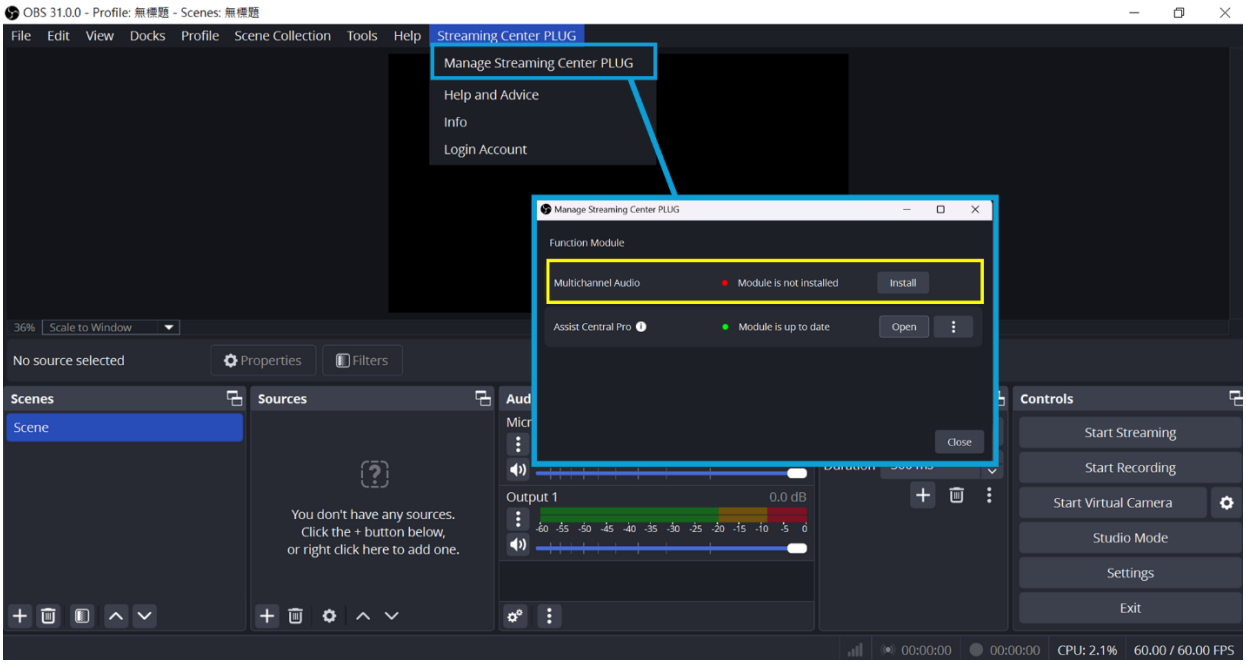
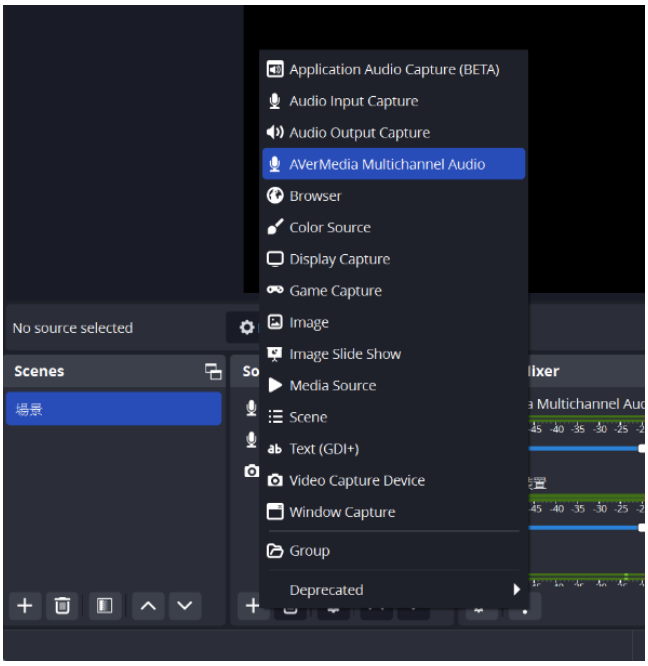
5.1 Multi-Channel Audio Capture

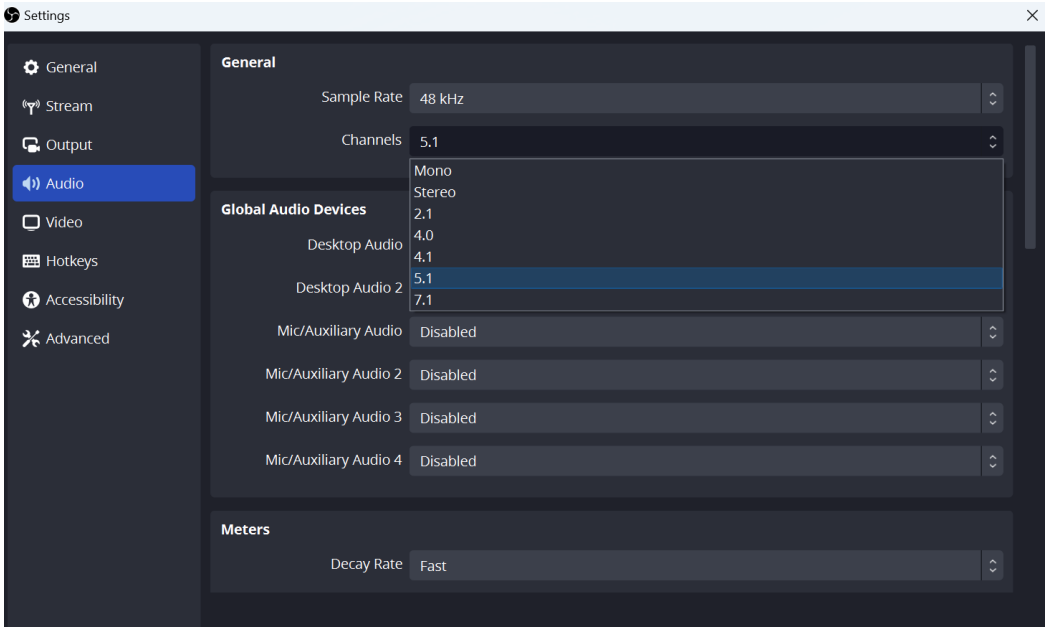
Select “Streaming Center Plug”, choose “Manage Streaming Center Plug”, and install “Multichannel Audio”.



After installing, the Multichannel Audio will be shown in the list of input source.



Remember to switch audio channels to 5.1 in the audio setting before recording.



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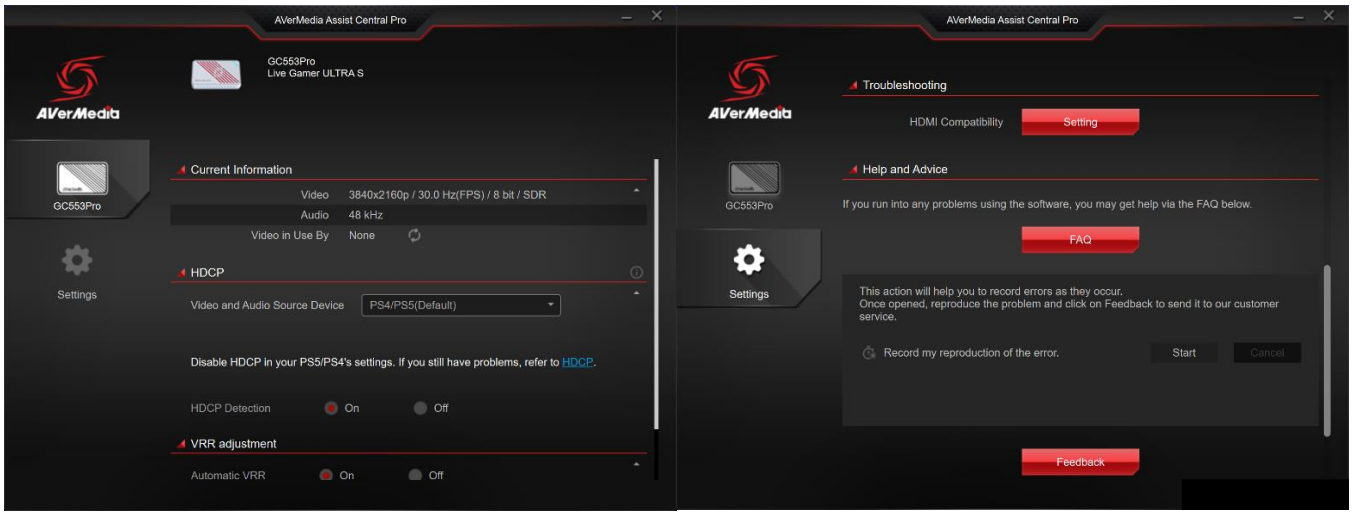
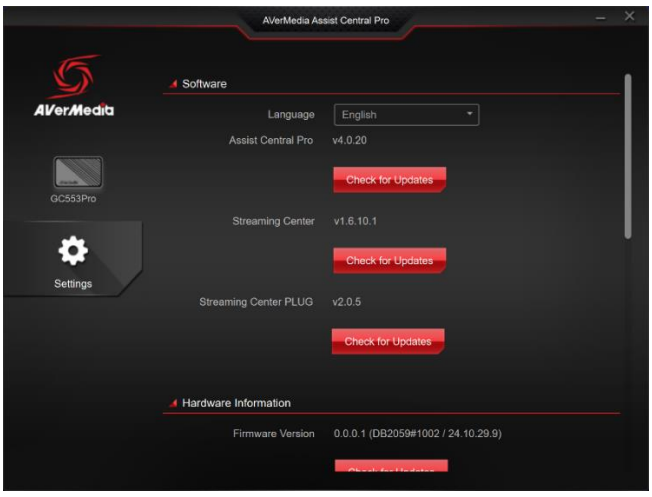
Assist Central Pro Software

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 also provides **direct download for Streaming Center and Streaming Center Plug**, and helps **detect the latest drivers, firmware, and software updates** available for your connected AVerMedia device.



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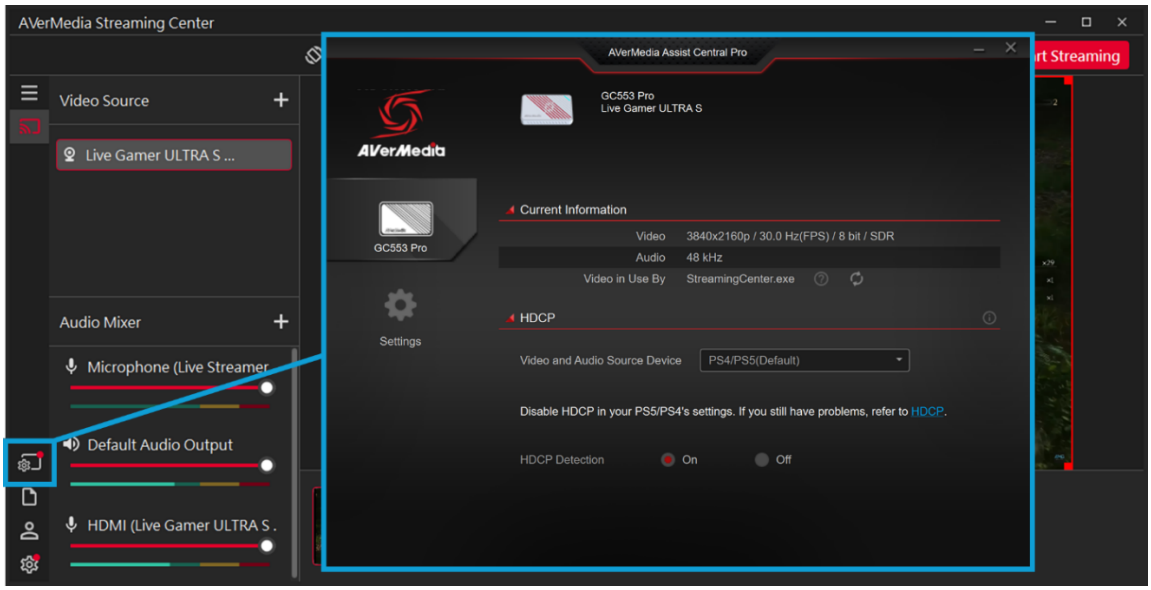
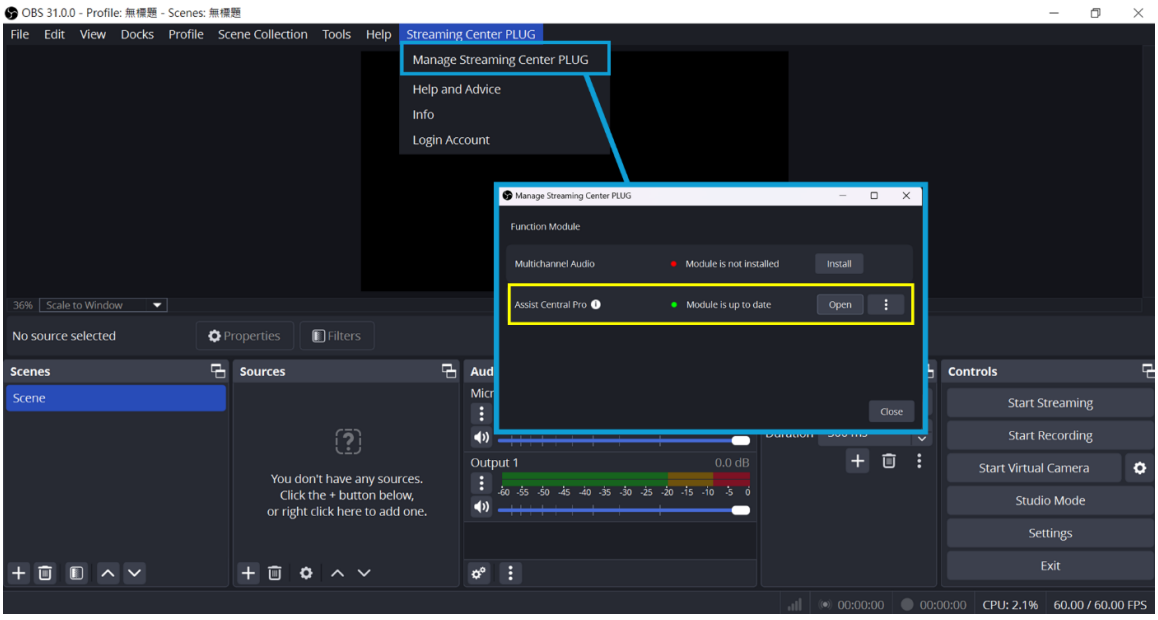
By **integrating with Streaming Center and Streaming Center Plug**, Assist Central Pro ensures faster and more efficient connections for updates, configure settings, and issue reporting.

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



- You can also open the Assist Central Pro in the Streaming Center Plug when using OBS. Just click the tab in “Manage Streaming Center Plug”.



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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.

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