

GC553G2

# LIVE GAMER *ULTRA 2.1*



## User Manual

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## Introduction

This document is your user manual for the Live Gamer ULTRA 2.1 (GC553G2). We have written this guide to provide you with the information you need to quickly and smoothly use the Live Gamer ULTRA 2.1 (GC553G2).

After a quick introduction of the Live Gamer ULTRA 2.1 and who this product is intended for, 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 capture 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.

## Live Gamer ULTRA 2.1 (GC553G2)

### Precise Capture, Stunning Clarity

The Live Gamer ULTRA 2.1 is the world-leading **HDMI 2.1 USB capture card**. It is designed primarily for console and PC gamers who possess HDMI 2.1 compatible games and devices, such as modern consoles, GPUs and monitors, require an HDMI 2.1 capture card to release the full potential of these games and devices while streaming.

The Live Gamer ULTRA 2.1 can **pass-through up to 4K144, 1440p240, 1080p360 HDR/VRR powered by HDMI 2.1** for you to enjoy an immersive gameplay while streaming. It also supports **up to 4K144 capture via RECentral on Windows and 4K60 capture on macOS** to give you a breathtaking game visuals in clarity like never before. With support for a variety of resolutions, including **ultrawide**, we ensure that every gamer, regardless of their setup, can enjoy seamless and high-quality capture experiences. In addition, the **built-in party chat** feature allows you to **record party chat and live commentary simultaneously** without the need for extra cable and microphone. Moreover, you can add your unique style into your gaming setup by customizing **RGB lighting**. The Live Gamer ULTRA 2.1 is certified for **Windows Dynamic Lighting** now, and still **sync up with the major RGB ecosystems** to give you more options for expressing your personality.

## Key Features

- **4K144 Pass-Through**

Now you can finally experience the full visual specs when streaming gameplay with your modern consoles (4K120 pass through) and PCs (4K144 pass through). The ultra low latency keeps you in perfect sync and ensures not a single frame is missed to have an impressive gaming experience in clarity and fluidity.

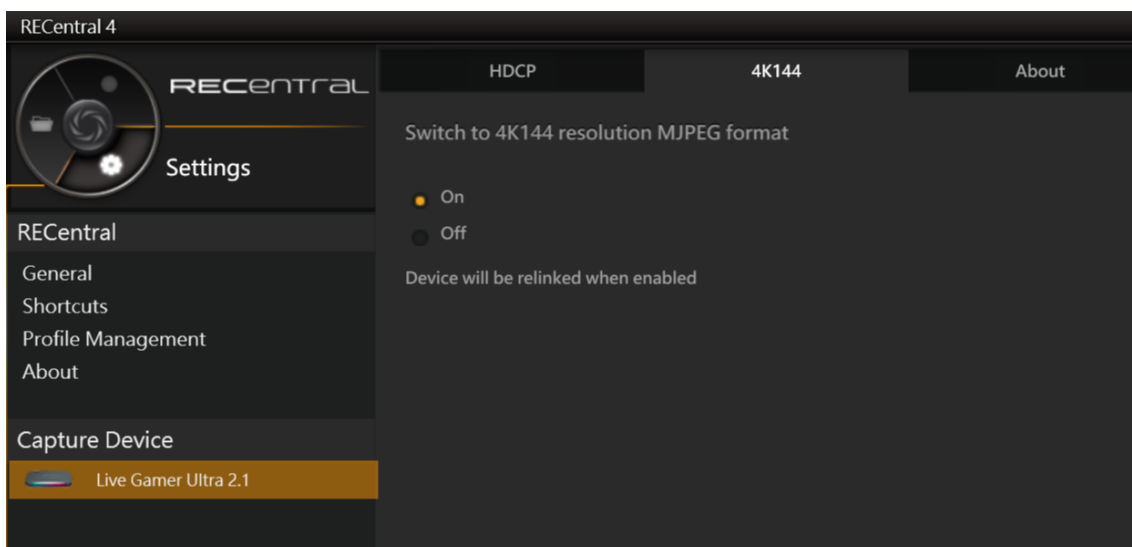
\*To fully utilize the performance of Live Gamer ULTRA 2.1, please refer to page 10 to check your hardware devices in advance.

- **4K144 Capture with RECentral on Windows**

Our HDMI 2.1 USB capture card – Live Gamer ULTRA 2.1 empowers you to capture your gameplay and content in **up to 4K144 quality when paired with the RECentral software**. Experience the thrill of **near-zero frame drop videos** and showcase ultra-smooth gameplay to your audience.

➤ **Activate 4K144 capture in RECentral:**

Install/Update [the latest version of RECentral 4](#) → Setting → Device → 4K144, click “On” to switch to 4K144 before recording.



- **4K60 Capture on macOS**

Take your game capture to the next level! Catch every victory and intense moment in **up to \*4K60 quality via OBS on macOS** and share your adventures with remarkable clarity to your audience.

\*For 4K60 MJPEG capture, it requires M1 Ultra/M2 Ultra or above.

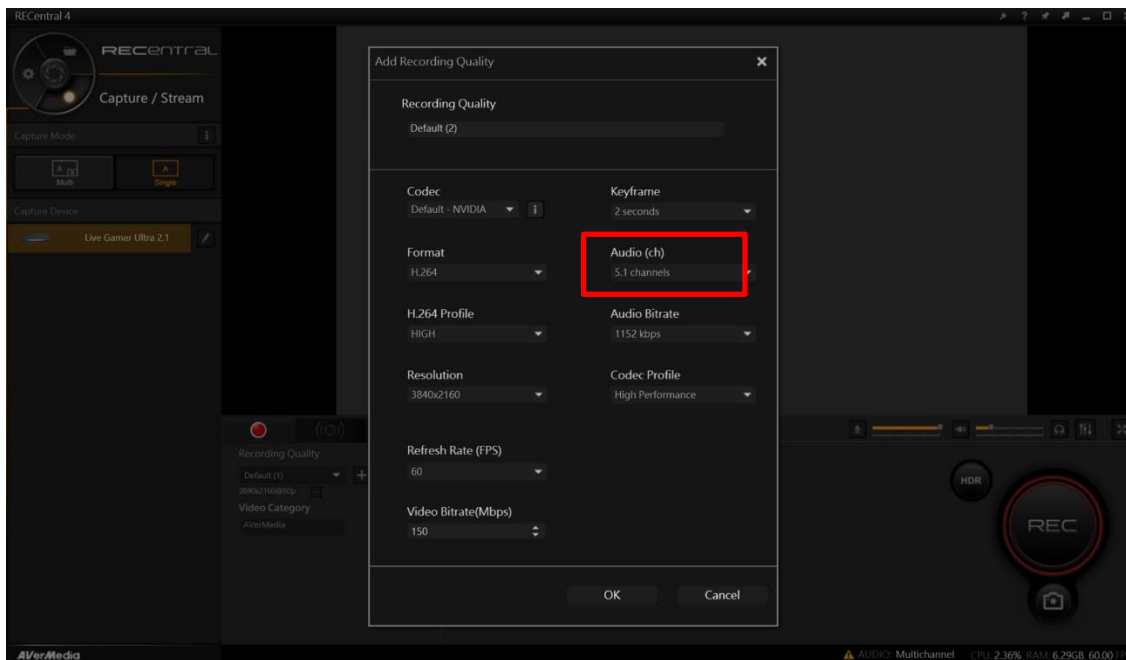
- **5.1 Multi-Channel Audio Support**

Experience enhanced audio immersion with stunning **\*5.1 channel surround sound audio capture and pass-through** with RECentral or OBS plugin.

\* Available for Windows only

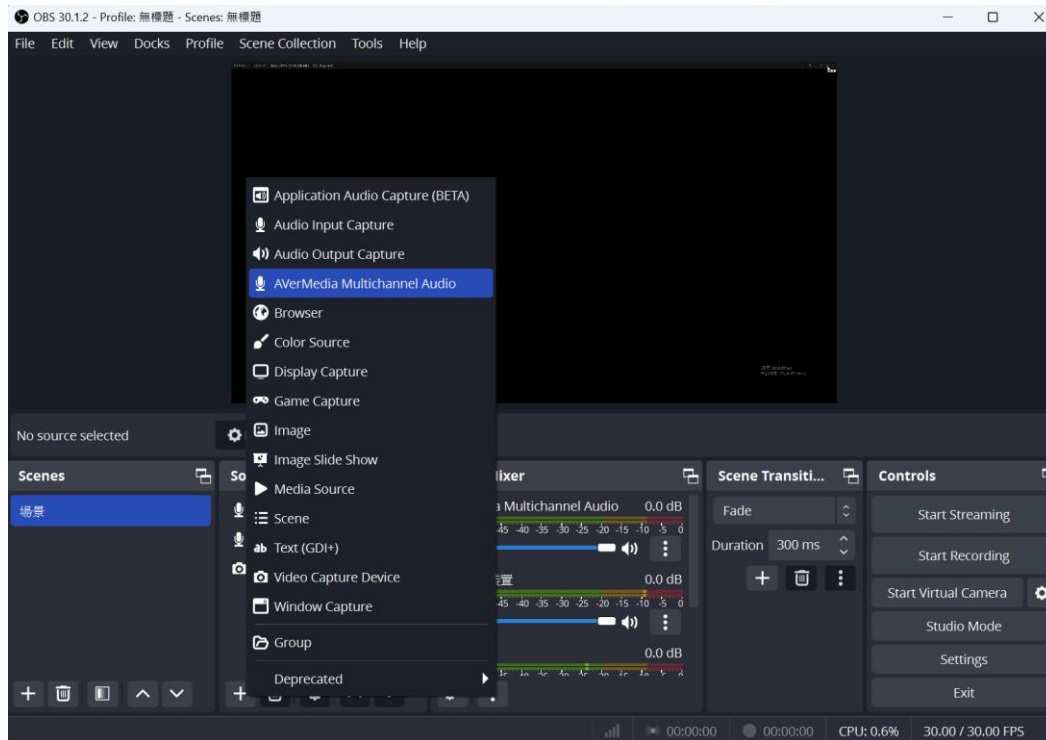
➤ **RECentral Setup**

Install/Update [the latest version of RECentral 4](#) → Add Recording Quality → Audio → Select 5.1 channels

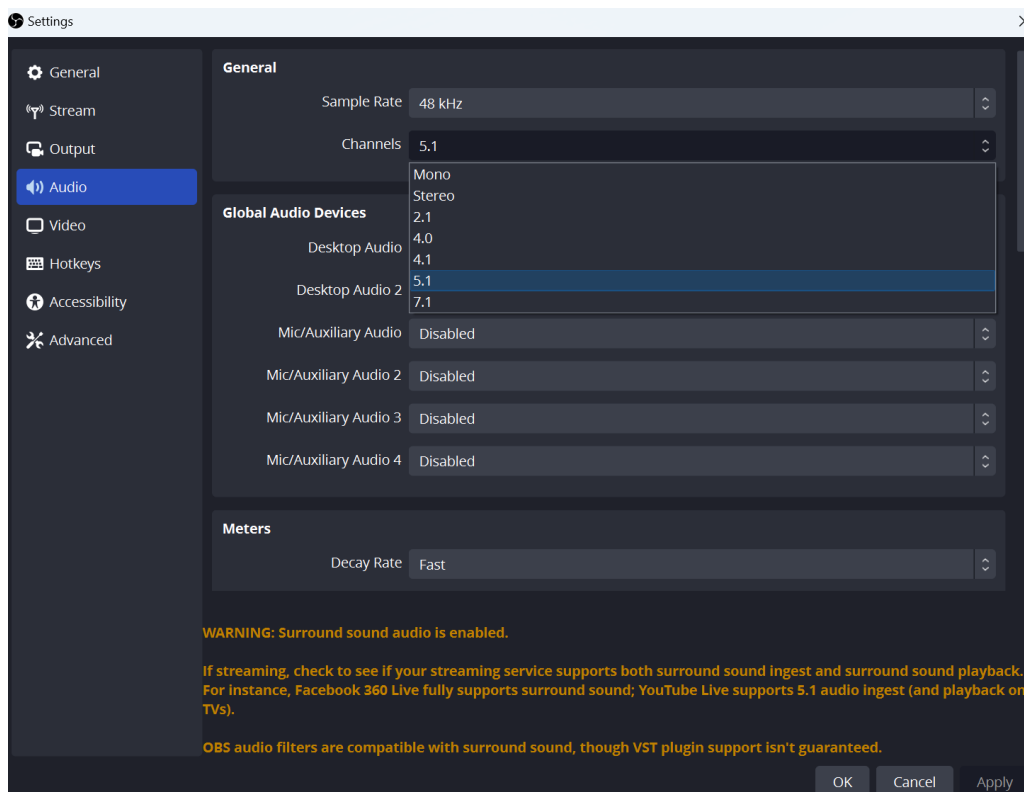


## ➤ OBS Plugin Setup

Install OBS Plugin – [AVerMedia Multichannel Audio](#), then it will be shown on OBS.

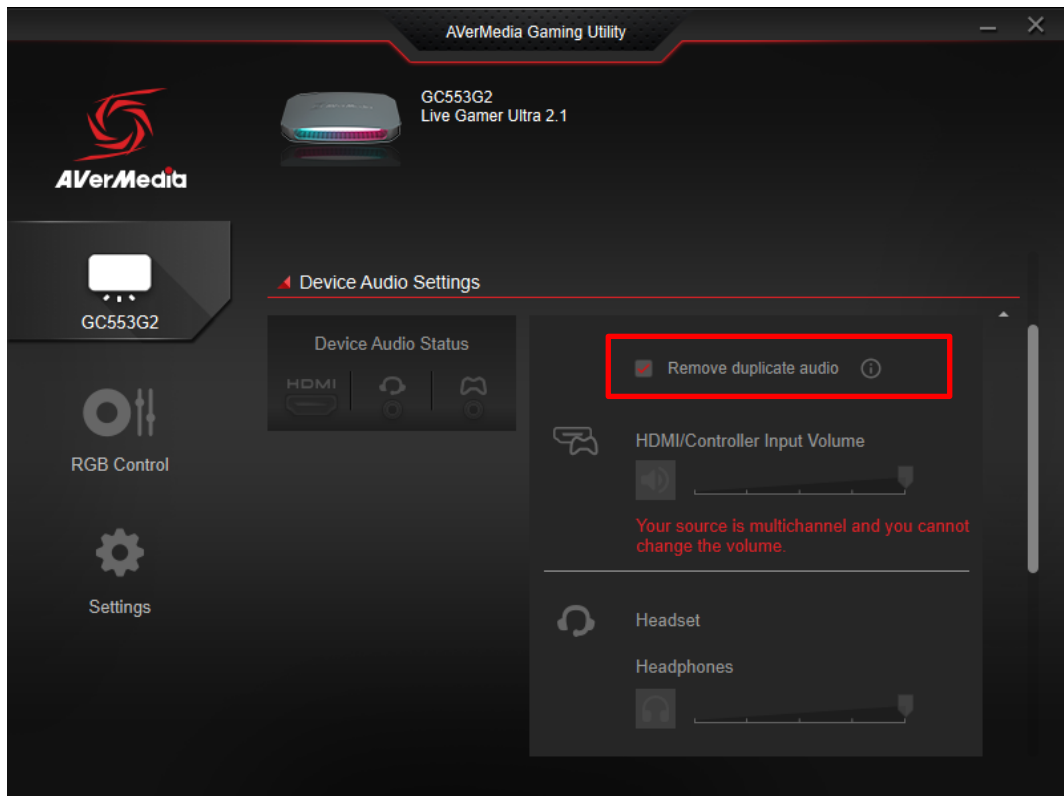


Remember to switch audio channels to 5.1 in the audio setting before recording.



## ➤ Duplicate Audio

When recording 5.1 channel audio while using Party Chat, there might be instances of duplicate audio depending on how you set up the Party Chat. In such cases, please use the latest [AVerMedia Gaming Utility](#) to check the box “Remove duplicate audio” in Device Audio Settings to eliminate the duplicate audio.



- **Ultrawide resolutions support**

With ultrawide resolution support of **3440x1440** and **2560x1080**, you can now game and create content in an immersive field of view that gives you an enhanced experience!

- **Live Commentary and Party Chat**

The built-in party chat feature lets you effortlessly record party chat and live commentary through one headset at the same time, **without extra party chat cable and microphone needed**. Stay interactive with your teammates and audience while seamlessly capturing voice chats together with your gameplay.



- **RGB Lighting Customization**

The Live Gamer ULTRA 2.1 is certified for **Windows Dynamic Lighting**, enabling effortless control directly through the Windows system. Also, you have the extra flexibility to **sync with major gaming RGB ecosystems**.

There are three ways to customize RGB lighting:

1. Using **Windows Dynamic Lighting**

(Requires Windows 11 Build 22631.2338 or newer. For detailed instructions, please see [here](#).)

2. Using third-party RGB lighting software (ASRock, MSI, and Gigabyte)

3. Using **AVerMedia Gaming Utility** tool (Please refer to the [user manual](#) for RGB Control)

- **Variable Refresh Rate**

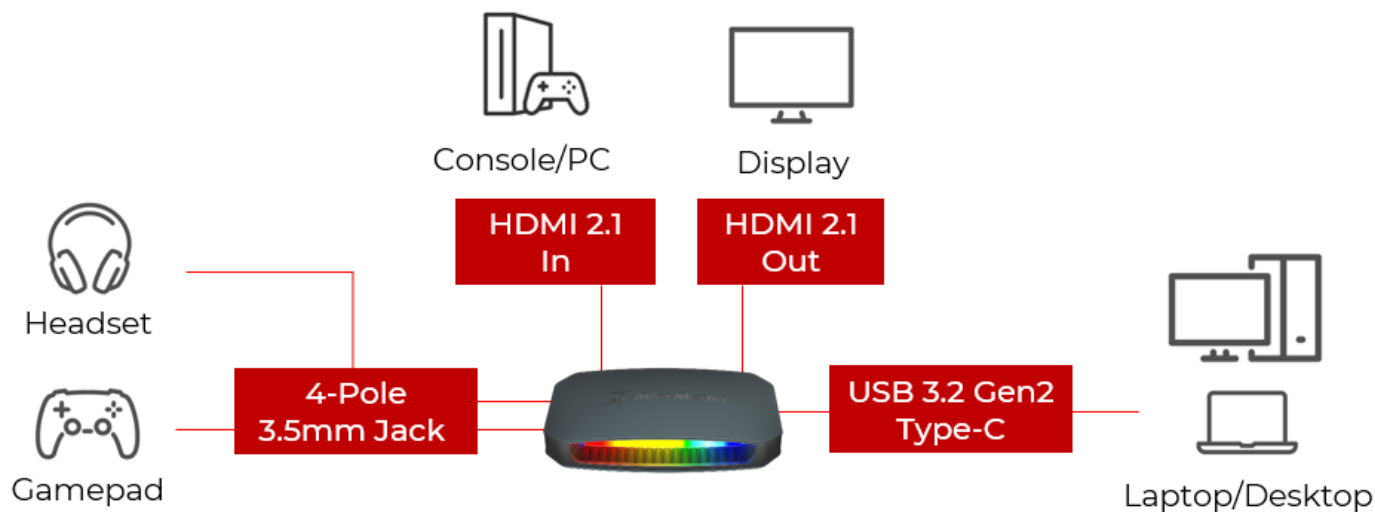
Immerse yourself in a world of smooth, stutter free visuals and ensure you never miss a crucial moment in your gameplay.

- **Captivating Color Box Design**

Inspired by the spectrum grating of the Live Gamer ULTRA 2.1, our color box design showcases a stunning rainbow neon display with every pull of the color sleeve, creating a dynamic interplay of light and shadows. Enjoy your unboxing with our ingenious design, where form meets function in a dance of light and shadow.



## Check Your Devices and Connection



### Note:

- Use the original cables provided with your devices.
- Make sure your streaming PC or laptop's Type-C port supports USB 3.2 Gen 2 or above. (USB 3.2 Gen 1 usage will result in lower capture resolution.)
- Check that both your display and console (PS5, PS4 Pro, Xbox Series X/S, Xbox One X) support HDMI 2.1 connection.
- If your monitor supports built-in DSC (Display Stream Compression), be aware that the maximum supported video pass-through might be 4K120.

We also took a video to talk about the things you should know at AVerMedia Content Creator YouTube channel. Click the photo to watch the video now:



<https://youtu.be/XNULB1CQO3E?si=Oth-W5qTkWVjLJ3d>

## 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 RX 5700 or above
- Laptop: Intel® Core™ i7-7700HQ + NVIDIA® GeForce® GTX 1050Ti or above
- 8 GB RAM recommended (Dual-channel)
- For **4K144 MJPEG capture**: Intel® Core™ i5-12XXX or above +  
NVIDIA® GeForce® RTX 3060 or above + 16GB RAM

### macOS 13 / 14 or later

- Apple M1 or 3.6 GHz quad-core Intel Core i7
- Apple M1 integrated graphics or Radeon Pro 555 with 2 GB of VRAM
- 16 GB of 2400 MHz DDR4 memory

#### Note:

1. For **4K60 MJPEG capture**, requires **M1 Ultra / M2 Ultra** or above
2. Please note that macOS does not support HDR capture due to the absence of the required video codec.

## Technical Specifications

Interface	USB 3.2 Gen 2 Type-C (10Gbps)
Input & Output (Pass-through)	HDMI 2.1
Max Pass-Through Resolution	2160p144 HDR/VRR, 3440x1440p120 HDR/VRR, 1440p240 HDR/VRR, 1080p360 HDR/VRR
Max Recording Resolution	2160p144* (Windows), 2160p60 (macOS) *With RECcentral
Supported Resolution	2160p, 3440x1440p, 1440p, 1080p, 1080i, 720p, 576p, 576i, 480p, 480i
Video Format	YUY2, NV12, RGB24, P010(HDR), MJPEG
Audio Input & Output (Headset and Gamepad)	4-Pole 3.5mm Jack
Dimension (W x D x H)	120 x 70 x 27.6 mm (4.72 x 2.76 x 1.09 in.)
Weight	115 g (4.06 oz.)
What's in the Box	LIVE GAMER ULTRA 2.1 (GC553G2) HDMI 2.1 Cable USB Type C to Type C Cable 4-Pole 3.5mm Audio Cable Quick Start Guide *Recommend using the attached cables for connection

Specifications are subject to change without prior notice. Please visit AVerMedia official website for the latest information.

# Pass-through and Capture Resolution Chart

○: Can be captured in SDR

●: Can be captured in SDR or HDR

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

Output Capture Resolution		Input Pass-Through Resolution													
		16:9													
		4K144	4K120	4K60	4K30	1440p240	1440p144	1440p120	1440p60	1080p360	1080p240	1080p144	1080p120	1080p60	
16:9	4K144	○													
	4K120	○	○												
	4K60	○	○	○											
	4K30	●	●	●	●										
	1440p144	○	○	○	○	○	○								
	1440p120	○	○	○	○	○	○	○							
	1440p60	●	●	●	●	●	●	●	●						
	1080p240	○	○	○	○	○	○	○	○	○	○				
	1080p120	●	●	●	●	●	●	●	●	●	●	●	●		
1080p60	●	●	●	●	●	●	●	●	●	●	●	●	●	●	

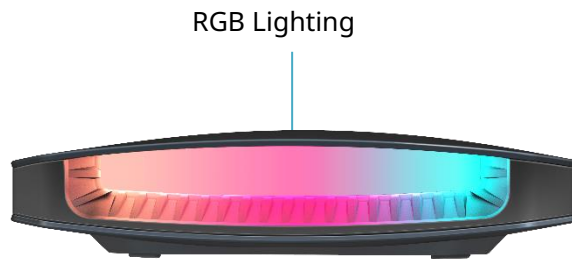
## Capture Capability Breakdown by Video Format

Capture Resolution	Video Format	USB 3.2 Gen2 (10Gbps)	USB 3.2 Gen1 (5Gbps)
3840x2160	MJPEG	144/120/60	144/120/60
	NV12	60	30
	YUY2	50	-
	RGB24	30*	-
	P010 (HDR)	30	-
3440x1440 (Ultra-wide)	MJPEG	144/120/60	144/120/60
	NV12	60	-
	YUY2	60	-
	RGB24	-	-
	P010 (HDR)	-	-
2560x1440	MJPEG	144/120/60	144/120/60
	NV12	144/120/60	60
	YUY2	60	50
	RGB24	60	30
	P010 (HDR)	60	30
1920x1080	MJPEG	240/120/60	240/120/60
	NV12	240/120/60	120/60
	YUY2	120/60	60
	RGB24	120/60	60
	P010 (HDR)	120/60	60

\*4K30 RGB24 Capture: Please switch to HDMI 2.0 option in Gaming Utility

# Product Overview

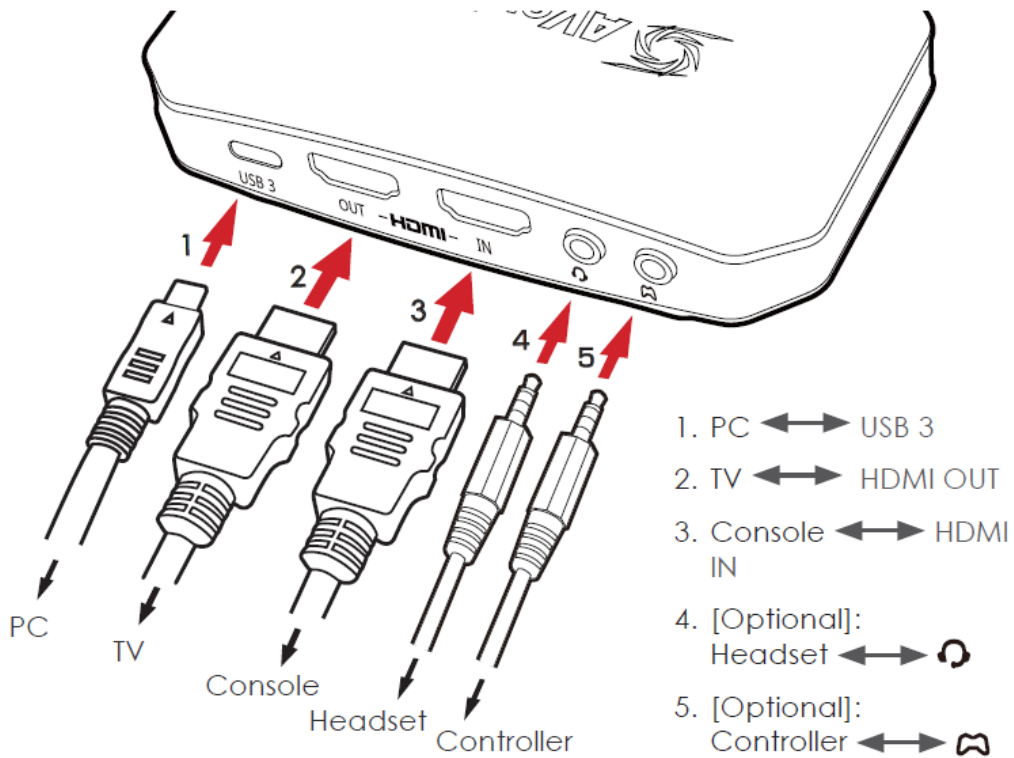
## Front View



## Rear View



# Installation



## RGB and Status Indicator

Blue Comet	Detecting Device
Rainbow Wave	Ready
Flashing Blue	Updating Firmware
Solid Red	Error: No Device Detected
Flashing Red	Error: Device Anomaly
Flashing Orange	Error: Device Connected to USB 2.0

## 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>