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AVerMedia GC553

AVerMedia Live Gamer Ultra GC553 Instruction Manual

Model: GC553

Brand: **AVerMedia**

1. INTRODUCTION AND OVERVIEW

The AVerMedia Live Gamer Ultra GC553 is an external game capture device designed for recording and streaming gameplay. It supports 4K60 HDR pass-through, allowing you to enjoy your games in high fidelity while capturing at resolutions up to 4K30. Its ultra-low latency design ensures a smooth gaming experience directly on your PC monitor.



Image 1.1: AVerMedia Live Gamer Ultra GC553 device.

Key Features

- **4Kp60 High Dynamic Range (HDR) Pass-through:** Experience your games in stunning 4K resolution with HDR.
- **Max Recording: 4Kp30 / 1440p60 / 1080p120 / 1080p60HDR:** Capture high-quality video for various platforms.
- **Ultra-low Latency:** Play uncompressed video directly on your PC monitor with minimal delay.

2. SETUP

2.1 What's in the Box

- Live Gamer Ultra (GC553)

- HDMI 2.0 cable
- USB Type C to Type A Cable
- Quick start guide
- CyberLink PowerDirector 15 Product Key Card

2.2 Connecting the Device

The Live Gamer Ultra (LGU) utilizes UVC technology for easy plug-and-play setup on Windows and Mac. Simply connect the device to your PC or Mac, and it will be ready for recording and streaming.



High Frame Rate Capture

With its high frame rate capture ability of up to 120 fps for Full HD signals, the LGU positions itself as the first external game capture device in the market to bring super smooth recordings to your archives.

Image 2.1: Simple connection of the Live Gamer Ultra to a laptop.

Follow these steps to connect your GC553:

1. Connect your gaming console (e.g., Xbox, PlayStation, Switch) to the **HDMI IN** port on the GC553 using an HDMI 2.0 cable.
2. Connect the **HDMI OUT** port on the GC553 to your display (TV or monitor) using another HDMI 2.0 cable for pass-through.
3. Connect the **USB 3.1 Type C** port on the GC553 to your PC or laptop using the provided USB Type C to Type A cable.



Image 2.2: Rear view of the Live Gamer Ultra showing HDMI In, HDMI Out, and USB 3.1 ports.

2.3 Setting Up Party Chat Audio

To include party chat audio in your recordings or streams, you may need a party chat adapter. The specific setup depends on your capture card model.

Video 2.1: This video demonstrates how to set up party chat with PlayStation and Xbox consoles when using an AVerMedia capture device. It covers connecting a party chat adapter to your controller and PC's line-in port for models without a dedicated audio input, or directly to the capture card's audio input for compatible models.

3. OPERATING THE DEVICE

3.1 Recording and Streaming

The Live Gamer Ultra allows for high-quality recording and streaming. Utilize AVerMedia's RECentral 4 software or third-party applications like OBS Studio, Streamlabs, or XSplit for optimal performance.



Image 3.1: RECentral, AVerMedia's powerful streaming software, capable of recording HDR content and streaming to multiple platforms.

3.2 High Refresh Rates and HDR

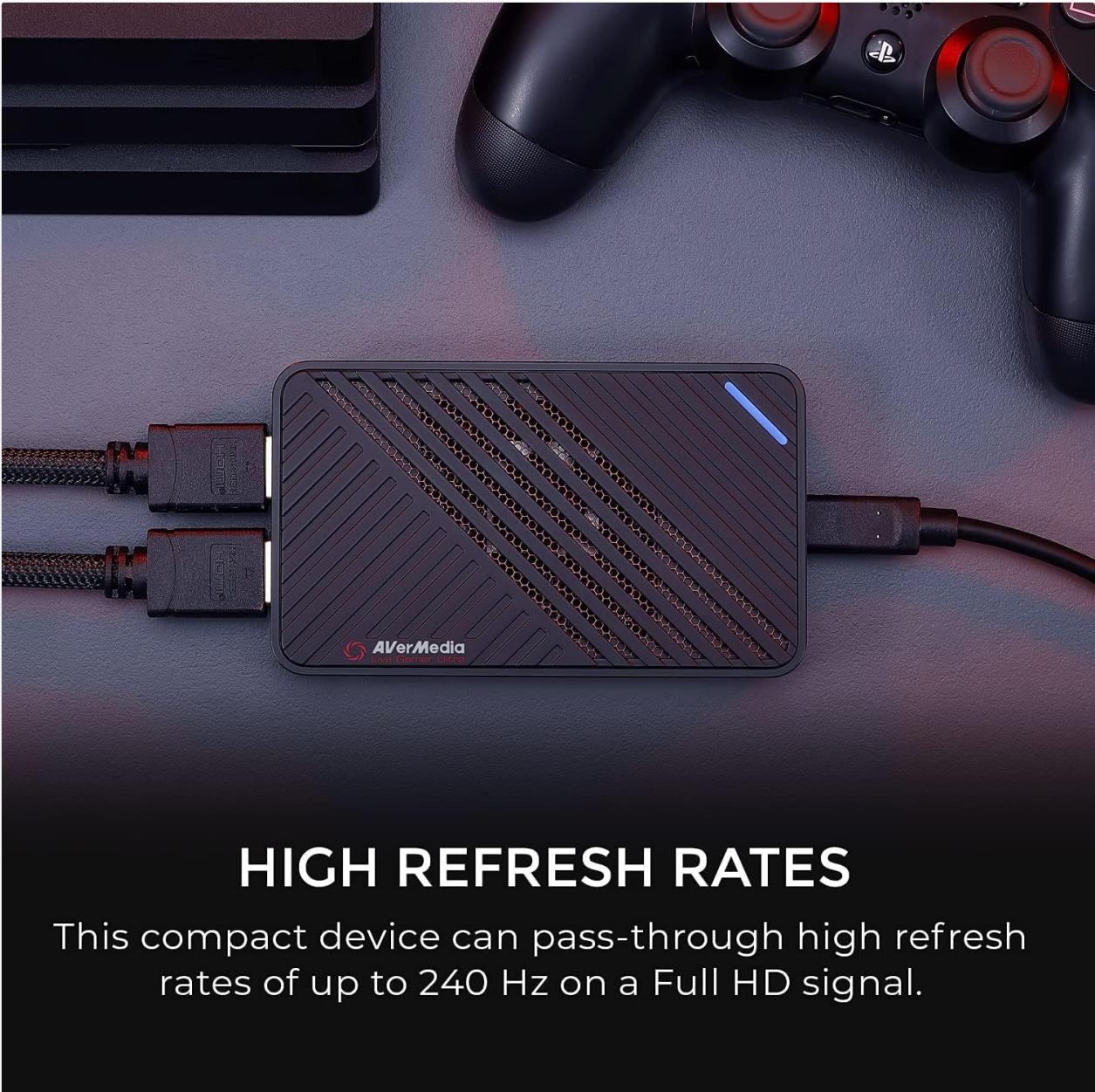
The GC553 supports pass-through of high refresh rates up to 240 Hz on a Full HD signal, ensuring a fluid gaming experience. It also handles 4K HDR pass-through, with recording capabilities for HDR content at Full HD 60 fps.

Variable Refresh Rate Support

The Live Gamer ULTRA (LGU) now supports VRR for both video capturing (using RECentral 4 software) and pass-through via a firmware update for Windows users.



Image 3.2: The device supports high refresh rates for smooth gameplay.



HIGH REFRESH RATES

This compact device can pass-through high refresh rates of up to 240 Hz on a Full HD signal.

Image 3.3: Full HD High Dynamic Range support for vibrant visuals.

3.3 Variable Refresh Rate (VRR) Support

The Live Gamer Ultra (LGU) now supports VRR for both video capturing (using RECentral 4 software) and pass-through via a firmware update for Windows users. This helps eliminate screen tearing for a smoother visual experience.

Stay Cool

With a powerful, silent built-in fan, if you ever noticed, drawing cold air from the top and venting out hot air through the sides, your LGU will always stay cool in the heat of battles.

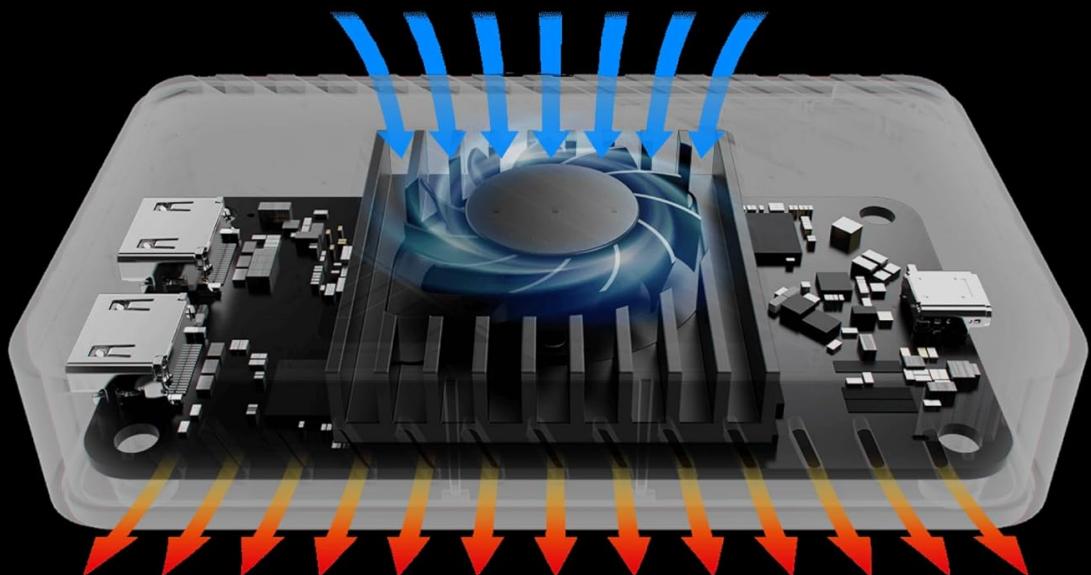


Image 3.4: Variable Refresh Rate (VRR) support for enhanced visual fluidity.

3.4 High Frame Rate Capture

With its high frame rate capture ability of up to 120 frames per second for Full HD signals, the LGU enables super smooth recordings for your archives.

Easiest Setup Ever

The LGU takes full advantage of UVC technology, which basically standardizes video drivers across Windows and Mac. In other words, all you need to do is plug your LGU to your PC or Mac and it's ready to record and stream.



Image 3.5: High Frame Rate Capture for exceptionally smooth video.

4. MAINTENANCE

The Live Gamer Ultra GC553 features a powerful, silent built-in fan. This fan draws cold air from the top and vents out hot air through the sides, ensuring the device remains cool during extended use.

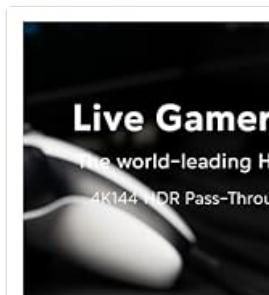


Image 4.1: Internal fan design for efficient cooling.

To maintain optimal performance, ensure the ventilation grilles are not obstructed. Regularly clean the exterior of the device with a soft, dry cloth. Avoid using liquid cleaners or abrasive materials.

5. TROUBLESHOOTING

5.1 Audio-Related Issues

If you encounter audio problems during capture or streaming, ensure all audio cables are securely connected. For specific troubleshooting steps related to audio, refer to the following video:

Video 5.1: This video provides guidance on how to resolve common audio-related issues when using AVerMedia capture cards.

5.2 HDCP and VRR Issues

Some users may experience issues with HDCP (High-bandwidth Digital Content Protection) or VRR (Variable Refresh Rate) when connecting to certain displays or consoles. AVerMedia provides a customizable resolution utility to manage these settings.



Image 5.1: AVerMedia Gaming Utility allows customization of resolutions and frame rates.

If you encounter HDCP or VRR problems, download the latest software and drivers from the official AVerMedia website. Within the software, look for options to disable HDCP detection or adjust VRR settings. Turning these off can often resolve display compatibility issues.

5.3 Connectivity Problems

If the device is not recognized by your PC or Mac, try the following:

- Ensure the USB Type C to Type A cable is securely connected to both the GC553 and a USB 3.0 (or higher) port on your computer.
- Try a different USB port on your computer.
- Restart your computer.
- Update your computer's USB drivers.

6. TECHNICAL SPECIFICATIONS

Feature	Specification
Brand	AVerMedia
Model Number	GC553
Hardware Interface	USB 3.1 Type C
Video Capture Resolution	1080p, 4K30
Operating System	Windows 11, macOS 10.13
Recommended Uses	Video Recording, Gameplay Broadcasting
Item Weight	4.2 ounces
Product Dimensions (LxWxH)	4.43 x 2.6 x 1.02 inches
Date First Available	June 4, 2018

7. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official AVerMedia website or contact their customer service. Keep your purchase receipt as proof of purchase for any warranty claims. Online resources and FAQs are available on the AVerMedia support page to assist with common queries and advanced configurations.

Related Documents - GC553

	<p>AVerMedia Live Gamer ULTRA GC553 Quick Guide</p> <p>Concise guide for the AVerMedia Live Gamer ULTRA GC553, covering setup, parts, LED indicators, specifications, and safety. Features detailed descriptions of diagrams and multilingual content merged into English.</p>
	<p>AVerMedia Live Gamer ULTRA S (GC553Pro) User's Guide</p> <p>Comprehensive user guide for the AVerMedia Live Gamer ULTRA S (GC553Pro) capture card, detailing its features, system requirements, technical specifications, installation, and software usage for streaming and content creation.</p>



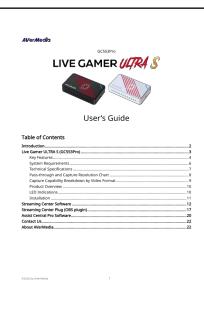
[AVerMedia Live Gamer ULTRA GC553 Quick Guide](#)

A quick start guide for the AVerMedia Live Gamer ULTRA GC553, covering setup, parts, LED indicators, and specifications.



[AVerMedia Live Gamer Ultra GC553: System Requirements, Software, and Compatibility Guide](#)

Comprehensive guide for the AVerMedia Live Gamer Ultra GC553, detailing system requirements for Windows and macOS, software compatibility with RECentral and OBS Studio, and troubleshooting tips for streaming and recording.



[AVerMedia Live Gamer ULTRA S GC553Pro User's Guide: 4K Capture Card Features and Setup](#)

Comprehensive user's guide for the AVerMedia Live Gamer ULTRA S (GC553Pro) 4K video capture card. Learn about key features like HDR/VRR pass-through, high frame rate capture, ultrawide support, and setup with Streaming Center software.



[AVerMedia Live Gamer ULTRA S GC553PRO Quick Start Guide](#)

This document provides a quick start guide for the AVerMedia Live Gamer ULTRA S GC553PRO, covering its features, setup, specifications, safety instructions, and compliance information.