

GC313Pro



User's Guide

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Introduction

This document is your User's Guide for the ELITE GO (GC313Pro). 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 ELITE GO and their target audience, 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.

ELITE GO (GC313Pro)

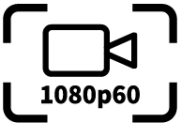
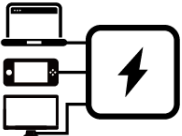
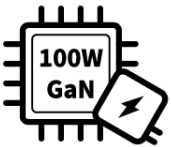
The **Premium Go Series** is a brand-new product line featuring three versatile products, each offering different levels of functionality. The **ELITE GO GC313Pro** stands out with its 100W Quick Charge feature and 1080p60 video capture, allowing users to charge their device and capture video simultaneously. The Premium Go Series provides exceptional mobility and compatibility for various handheld devices, enhancing the user experience in multiple scenarios.

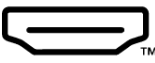
The ELITE GO GC313Pro Charging Capture combines the benefits of a connectivity hub and an AC charger into one convenient device. With two USB-C ports, a USB Type-A 2.0 port, and an HDMI port, it enables users to charge their device while playing on a big screen simultaneously.

The ELITE GO GC313Pro is not just your typical charger. With powerful 100W Quick Charge technology and the capability to capture video in 1080p60, this device combines fast charging with seamless video capture. Whether you're charging on the go or recording your latest gaming session, ELITE GO ensures you have everything you need to stay powered up and connected. Plus, the GC313Pro operates as a hub with data transfer and display capabilities even when not connected to an electrical outlet.

The ELITE GO GC313Pro offers the perfect balance between capture functionality and charging convenience, catering to gamers who prioritize versatility and mobility. The key difference between the ELITE GO and the CORE GO is the ELITE GO's superior video capture capabilities, making it an ideal choice for those who need both charging and high-quality video capture features.

Key Features

 PD3.0 Quick Charge	• Fast and Efficient: With PD3.0 Quick Charge, your devices get powered up rapidly, saving you valuable time. • Versatile Compatibility: It supports a wide range of devices, ensuring your gadgets are always ready to go. • Advanced Technology: The PD3.0 standard guarantees a safe and stable charging experience.
 1080p60 Video Capture	• High-Quality Recording: Captures video in Full HD at 60 frames per second for smooth and detailed playback. • Professional-Grade: Ideal for content creators, streamers, and gamers seeking top-notch recording quality. • Easy Integration: Seamlessly integrates with your existing setup for hassle-free recording and streaming.
 Triple-Device Charging	• Multi-Device Support: Charge up to three devices simultaneously, maximizing convenience and efficiency. • Compact and Powerful: This feature eliminates the need for multiple chargers, saving space and reducing clutter. • Universal Compatibility: It works seamlessly with a variety of devices, from smartphones to tablets and laptops.
 100W GaN Charger	• High Power Output: Provides up to 100W of power for fast and efficient charging of high-demand devices. • GaN Technology: Uses Gallium Nitride for improved efficiency and reduced heat generation. • Compact Design: Despite its high power output, it remains small and portable for easy transport.

 Overload Protection	• Enhanced Safety: Protects your devices from electrical overloads, ensuring a safe charging environment. • Smart Monitoring: Automatically detects and prevents overcurrent and overvoltage conditions. • Peace of Mind: Safeguards your valuable electronics against potential damage.
 Fast Charging	• Quick Power-Up: Delivers rapid charging speeds to minimize downtime and keep you connected. • Optimized Efficiency: Intelligent charging technology ensures your devices charge faster than ever. • Universal Support: Compatible with a wide array of devices for consistent, fast charging performance.
4K60  HDMI 4K60 Display	• Ultra-High Definition: Supports 4K resolution at 60Hz for stunning visual clarity. • Seamless Connectivity: Easily connects your devices to external displays, enhancing your viewing experience. • Versatile Usage: Ideal for presentations, gaming, and entertainment with crisp and clear visuals.
 Charging, Displaying, Connecting	• All-in-One Solution: Combines charging, video output, and connectivity in a single, convenient device. • Streamlined Functionality: Simplifies your setup by reducing the number of cables and adapters needed. • Enhanced Productivity: Perfect for multitasking, ensuring you stay productive and connected.

*Wall chargers with GaN technology offer faster charging times and greater power efficiency due to fewer electrical components and improved heat performance.

System Requirements

(For dedicated streaming PC/NB)

Operating System : Windows® 10 or later (Support UVC Protocol)

Desktop

- Intel® i5-3330 or comparable (i7 recommended)
AMD A10-7890K (Quad-core) or above
- NVIDIA® GTX 650 / AMD Radeon™ R7 250X or above are recommended
- 4GB RAM

Laptop

- Intel® Core™ i7-4810MQ
- NVIDIA® GeForce® GTX 870M
- 4 GB RAM (8 GB recommended)

Operating System: macOS 13 / 14 or later

iMac (Retina 4K, 21.5", 2019)

MacBook Pro/MacBook Air (2018)

iPadOS 17 or later (Type-C port)

Specifications

Power	Usage Type: Wall
	AC Pin: US (foldable pins)
	Input: AC 100-240V~50/60Hz
	Output:
	USB-C1/C2: 5.0V = 3.0A, 9.0V = 3.0A, 12.0V = 3.0A, 15.0V = 3.0A, 20.0V = 3.0A, 20.0V = 5A (Max 100W) USB-A: 5.0V = 1.0A (Max 5W) USB-C1+USB-C2: Max 90W USB-C1+USB-A: Max 105W USB-C2+USB-A: Max 105W USB-C1+USB-C2+USB-A: Max 95W
Fast Charging Protocol	PD3.0
Overload Protection	Overvoltage protection (OVP), Over Current Protection (OCP), Over Power Protection (OPP), Over Temperature Protection (OTP), Short Circuit Protection (SCP)
Interfaces	1 x HDMI 1.4 2 x USB-C 3.2 Gen 1* 1 x USB-A 2.0 *C1 DisplayPort 1.4 supports up to 4Kp60 pass-through. *Theoretical data transfer rate: • USB 3.2 Gen 1: 5Gbps • USB 2.0: 480Mbps
Video & Audio	Max. Pass-Through Resolution: 4K60 Max. Capture Resolution: 1080p60 Video Format: YUY2, MJPEG Audio Output: Stereo
Dimensions (W x D x H)	66 x 36.6 x 62 mm (2.60 x 1.44 x 2.44 in.)
Weight	250 g +/-10 g (8.82 oz.)
What's in the Box	ELITE GO (GC313Pro) USB Type-C to Type-C Braided Cable (2 m/ 6.56 ft.) Changeable AC Plug Quick Start Guide *Caution: Please use the supplied cable for the source port. *The accessories may vary slightly depending on the country of purchase.

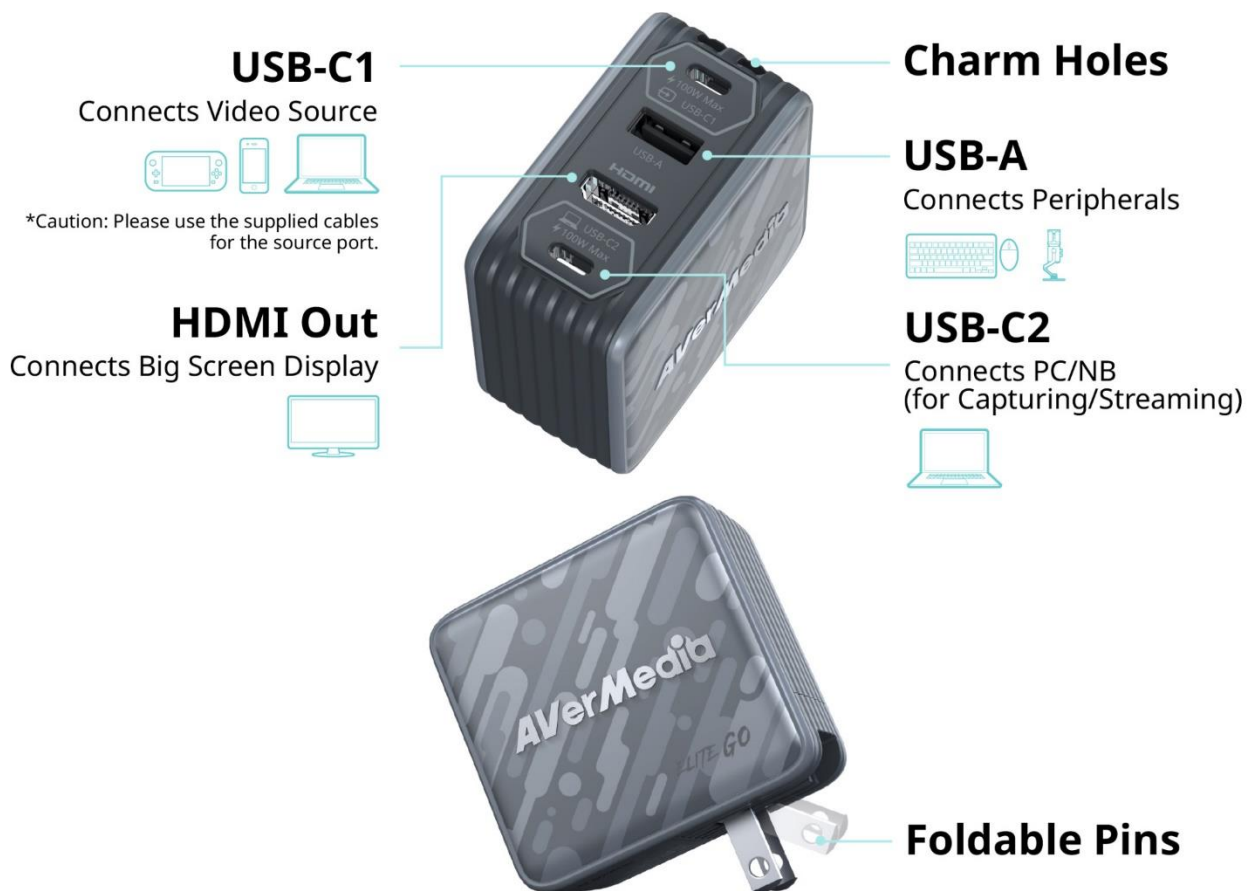
*Specifications are subject to change without prior notice. Please visit AVerMedia official website for the latest information.

Note:

Perfect for charging laptop requiring less than 90 watts.

Enjoy multi-device charging with a total power capacity of up to 100 watts.

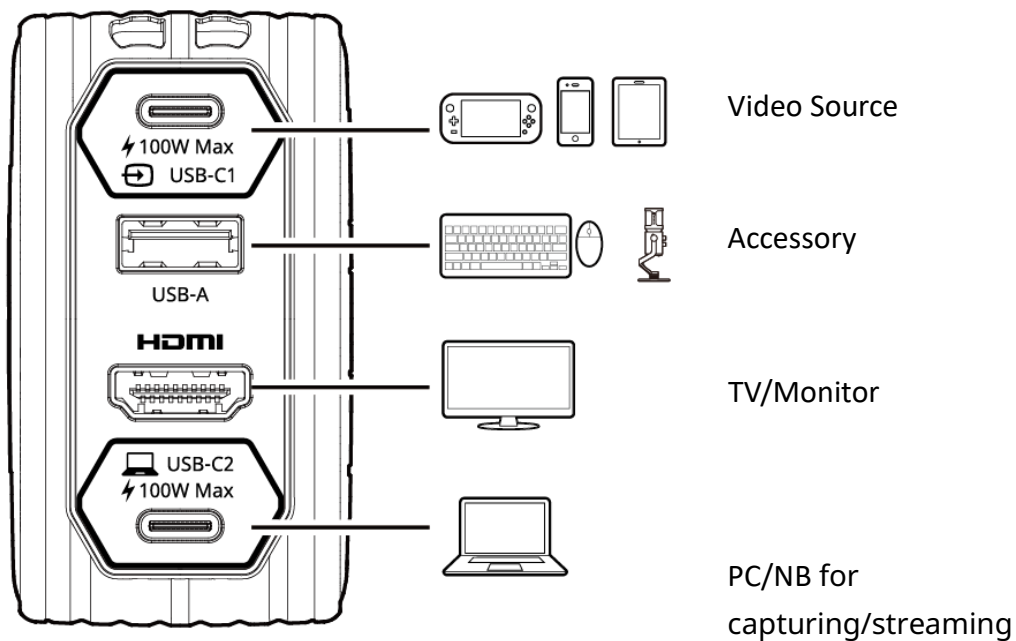
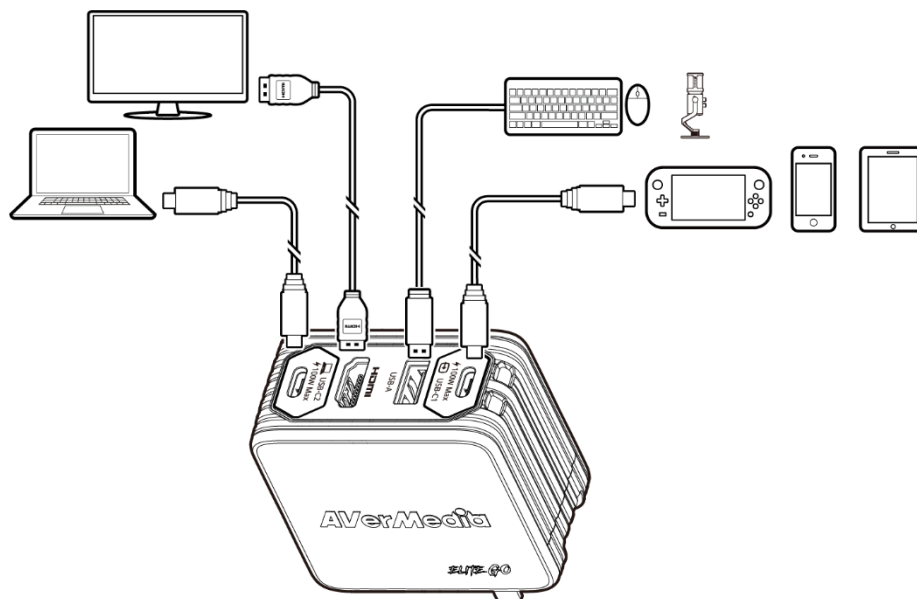
Product Overview



*GC313Pro operates as a hub with data transfer and display capabilities even when not connected to an electrical outlet.

Note: The GC313Pro's USB-A and HDMI Out functionality works only with devices connected to the video source through the USB-C1 port. The USB-C2 port is designated for the capturing/streaming function. Additionally, the USB-A, USB-C1, and USB-C2 ports support charging.

Connection



Power Allocation

		1 Port		2 Ports		3 Ports	
USB-C 1	100W	--	--	45W	90W	--	45W
USB-C 2	--	100W	--	45W	--	90W	45W
USB-A	--	--	5W	--	5W	5W	5W

Single-port charging



Two-port charging



Three-port charging



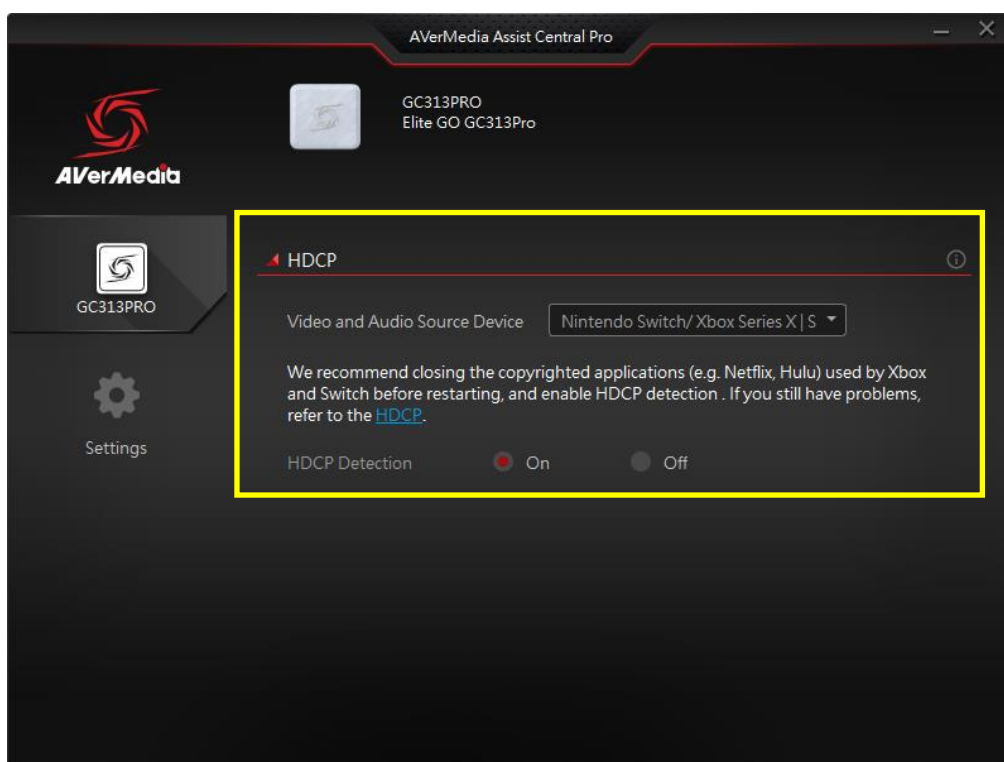
Assist Central Pro

AVerMedia Assist Central Pro is a handy tool that helps users obtain their device's information and adjust its settings.

Installation & Device Information

Visit your device's webpage and download Assist Central Pro. Install it by following the step-by-step instructions.

Once installed, you'll be greeted with an interface shown below.



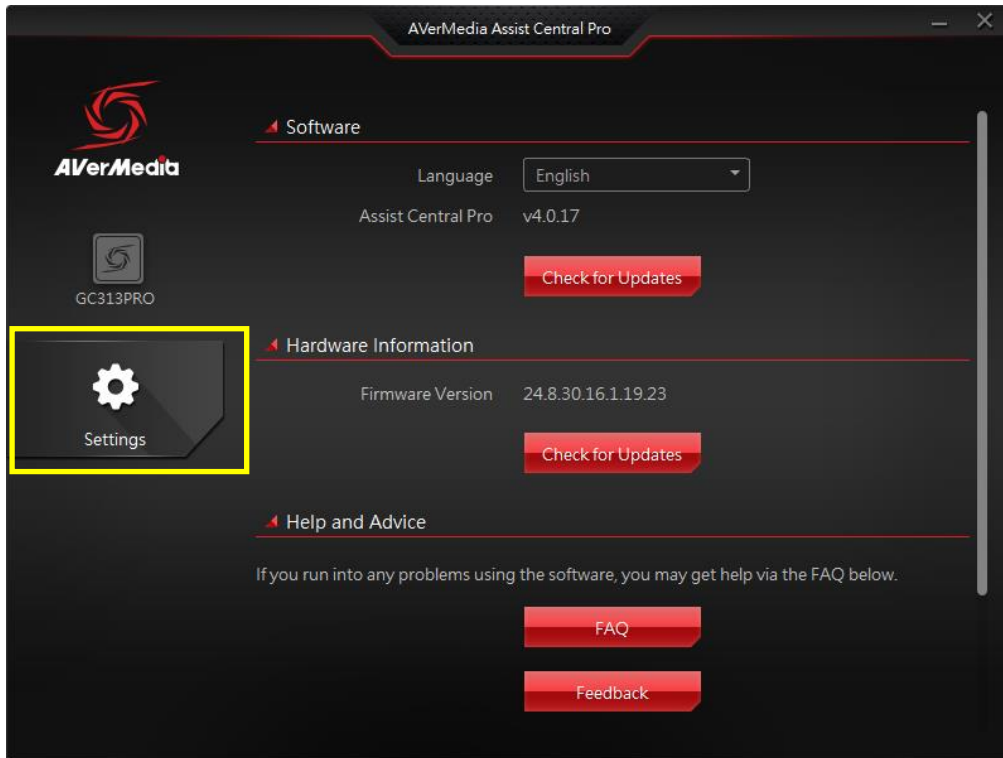
Located near the upper left of the UI, this function provides information about your device, including HDCP setting.

HDCP*

Select the proper video and audio source and follow the recommended setting for your source type.

* HDCP detection is a security verification process that occurs while connecting two digital devices (e.g. a player and a monitor) to ensure that transmitted content is protected from unauthorized copying.

Settings



The **Settings** include essential functions such as software and hardware updates, troubleshooting, and more.

Help and Advice

This setting has a feedback function that can record the system log when the problem happens.

First, you need to enable **Recording Bug Report**.

Reproduce the problem for the software to record it. After the problem reoccurs, click Feedback. Fill in the form, and submit the bug report.

Download Assist Central Pro

Windows:

https://storage.avermedia.com/web_release/www/AssistCentralPro/AssistCentralPro_v4.0.73-installer.exe

macOS:

https://storage.avermedia.com/web_release/www/AssistCentralPro/AssistCentralPro_v4.0.73.zip



Firmware Update Guideline

The purpose of this firmware update is to ensure compatibility with **Switch 2**.

Note: Before updating the GC313Pro firmware, please disconnect the AC power. This step allows the device to update more efficiently and helps improve the overall success rate of the process.

Pre-Update Preparation

- **Unplug the GC313 from the power outlet.**
- Use the USB-C cable included with the GC313Pro to connect the C1 port of the GC313Pro to your computer.
- Use a standard USB-C to C or USB-C to A cable to connect the C2 port of the GC313Pro to your computer.

Firmware Update



- Update Tool Download: <https://www.avermedia.com/product-detail/charging-dock-GC313Pro#download>
- Launch the firmware update tool, and follow the on-screen instructions to complete the update.



- After the update is complete, disconnect all Type-C devices to ensure the upgrade takes effect.

Post-Update Connection

1. Plug the GC313Pro back into the power outlet.
2. Use an HDMI cable to connect the GC313Pro to your TV or monitor (make sure the display is powered on).
3. Use the included USB-C cable to connect your video output device to the C1 port of the GC313Pro.

If you're using a Switch 2, connect it to the Type-C port on the bottom of the Switch 2.

4. If you're using a Switch or Switch 2, the screen will go black, indicating it has entered Dock mode.

Capture Function

1. Open OBS Studio, add a new Video Capture Device, and select GC313Pro.
2. Set the resolution to 1920×1080 / 60fps; the recommended color format is YUY2.
3. After completing the settings, you can start using it.
- 4.

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>

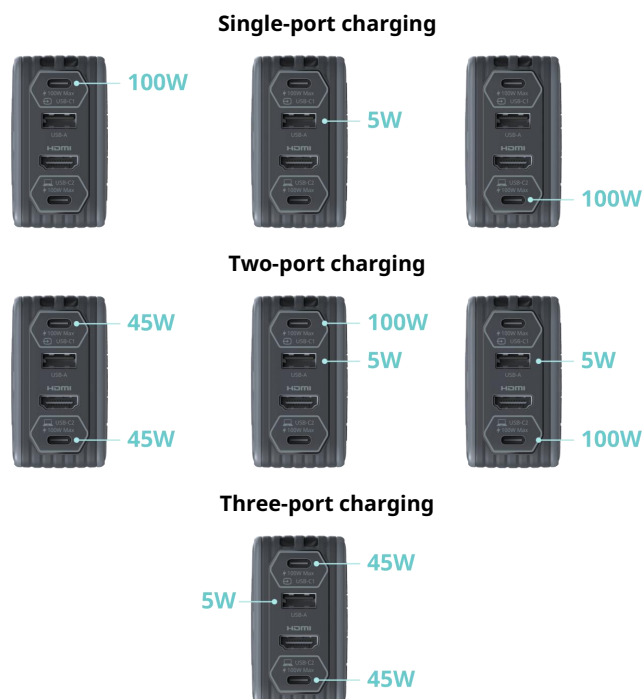
Appendix – F.A.Q.

Q: Can I fast charge my Notebook/Laptop with the GC313Pro?

A: Yes, you can charge your laptop or notebook using the GC313Pro. For optimal performance, ensure you are using the C1 port, which delivers up to 100W of power when used individually.

When using a USB-C charger like the GC313Pro, consider your laptop's specific power needs, including voltage and current input. Using a charger that does not meet these requirements can lead to slow charging, reduced performance, or even potential damage. Ensure that 100W is sufficient to meet your laptop's power requirements. For best results, refer to your laptop's user manual, check the power specifications on its label, or consult our compatibility list.

1. Please also ensure that the charger's output power (100W) is sufficient to support all connected devices to avoid overload or overheating. Refer to the charging distribution settings, please refer to below charging allocation:



2. Always use charging cables capable of handling 5A or above. (Notes: The type c to c cable comes along GC313Pro box meet this requirement.)
3. Check whether the charger and devices support compatible fast charging protocols. GC313Pro only supports the USB PD3.0 (Power Delivery 3.0).

Notes: there are some other protocol like: Qualcomm Quick Charge (QC), Huawei SuperCharge, Samsung Adaptive Fast Charging (AFC), OnePlus Warp Charge, Mi TurboCharge (Xiaomi), Super VOOC (OPPO)...etc

Q: Why I'm I shown a Slow Charge warning when plugging my Laptop to the GC313Pro?

A: If you encounter this warning, it's likely due to one of two reasons:

1. **Another Type-C device is connected to the GC313Pro** – For example, if you've connected a phone, tablet, or handheld console alongside your laptop, the GC313Pro will switch to dual-port charging mode. In this mode, the 100W output is split equally between the two Type-C ports, providing 45W per port. If your laptop requires more than 45W to charge regularly, this reduced power output can trigger a slow charge warning.
2. **Power requirements exceed 100W** – Even if you're using the single 100W port, your laptop might require more than 100W for charging and optimal performance. To avoid this, check your laptop's specific power needs to ensure the GC313Pro is sufficient for your device.

Always verify your laptop's individual power requirements by consulting the user manual or the manufacturer's specifications. This will help determine if the GC313Pro is compatible with your device.
3. Check whether the charger and devices support compatible fast charging protocols. GC313Pro only supports the USB PD3.0 (Power Delivery 3.0).

Notes: There are some other protocol like: Qualcomm Quick Charge (QC), Huawei SuperCharge, Samsung Adaptive Fast Charging (AFC), OnePlus Warp Charge, Mi TurboCharge (Xiaomi), Super VOOC (OPPO)...etc

Q: Why is my computer unable to recognize GC313Pro?

A:

1. GC313Pro will only be recognized as a capture device when the computer is connected to the C2 port of GC313Pro, and the AC adapter is plugged in.
2. In Device Manager, under "Sound, Video, and Game Controllers" or "Cameras," the name Elite Go GC313Pro should appear.
3. If the device is not recognized, disconnect all Type-C ports from the GC313Pro, then reconnect and try again.
4. If GC313Pro is not detected by Assist Central Pro, ensure that you are using the provided C-to-C cable to connect the C1 port of GC313Pro to the Type-C port on your computer.
Notes: It is recommended to use the C to C cable included with the GC313Pro and connect it to the C port on the computer. The C to A cable lacks charging and HDMI functionality. As a result, customers may experience issues with the GC313Pro not being recognized by Assist Central PRO when using the C to A cable.
5. If the device displays a different name, please contact us for assistance.

Q: Why is there no display even after connecting my GC313Pro?

1. **Check Signal Source Compatibility:** Ensure that the Type-C port of your signal source device supports DP1.2 output (or Thunderbolt 3 or higher). Use the C-to-C cable included in the GC313Pro package to connect your signal source to the USB-C1 port of the GC313Pro. (For example, devices like iPhone 15 Pro Max and Samsung S24U are supported.)
2. **HDCP Settings:** If the software preview shows HDCP (common with devices like iPads,

iPhones, or Android phones), refer to our instructional video to turn HDCP off.

3. **Reconnect the setup:** If the above steps are verified and the issue persists, disconnect and reconnect the GC313Pro and then power it on again.

Q: Why is there no sound on the TV connected to the HDMI output?

A: Check if the signal source device connected to the C1 port has sound output enabled.

For the GC313Pro, ensure that GC313Pro is set as the audio output device on your C1 source.

Q: Why is there no sound from the headphones when connected to the USB-A port?

A:

1. Ensure the signal source is connected to the C1 port, and the audio output from the signal source is set to the headphone device.
2. Headphones can only be used with devices connected to the C1 port and cannot be used as headphones for the computer connected to the C2 port.

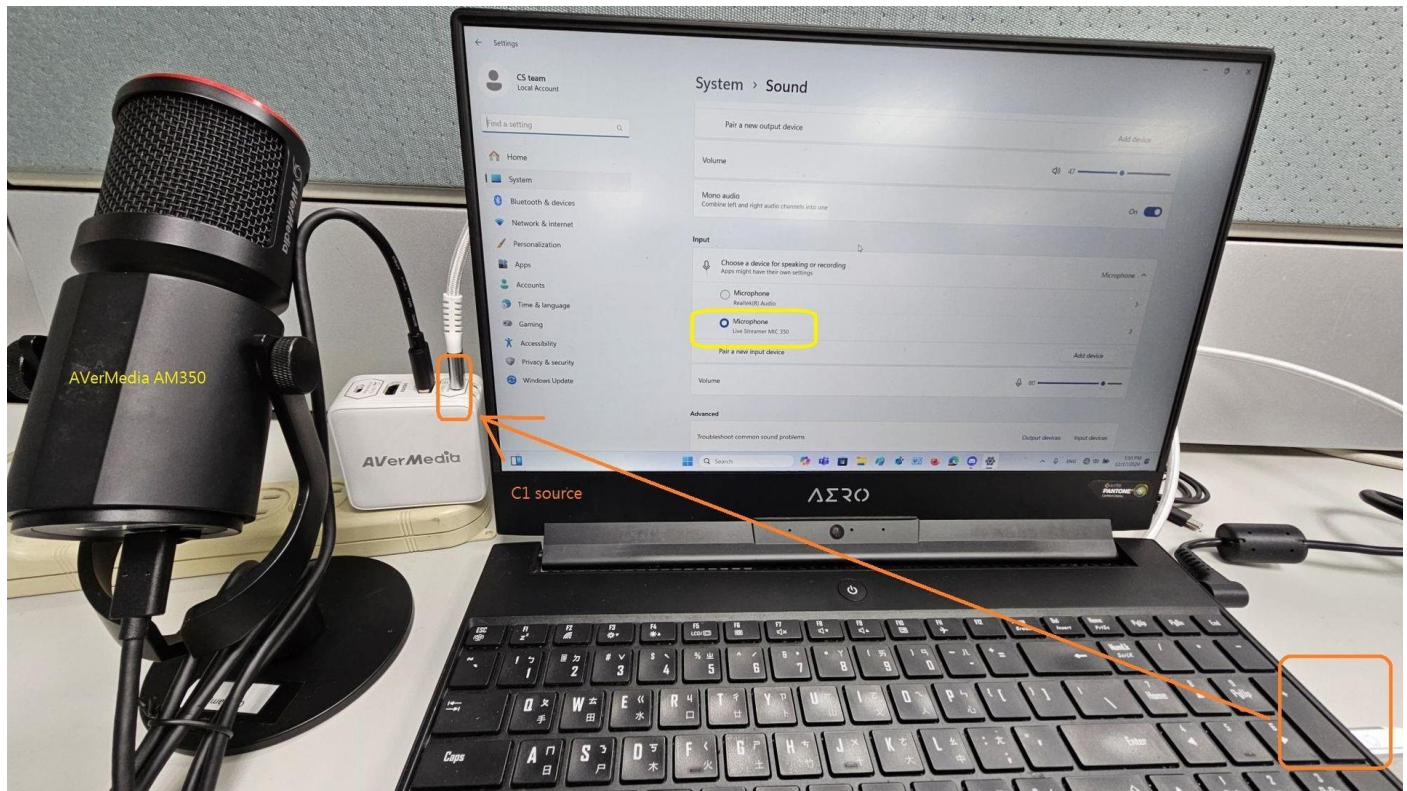
Q: How should I set up GC313Pro on software?

A: For Windows/macOS systems, when using third-party software (e.g., OBS Studio), it is recommended to set the resolution and FPS to match the signal source for the best experience. Please refer to the tutorial video for detailed instructions.

Q: How do I set up a microphone connected to the USB-A port for the GC313/GC313Pro?

A: For the GC313/GC313Pro, the microphone connected to the **A port** is only functional with the signal source connected to the **C1 port**.

For example, if a **Windows device** (e.g., laptop) is connected to the **C1 port**, the microphone will be recognized as a **Sound Input Device** on that PC.



Important Notes:

If you are using the **GC313Pro**, please note:

- The microphone is only workable for the signal source connected to the **C1 port**.

It **cannot** be used as microphone for the computer connected to the **C2 port**.

GC313 vs. GC313Pro

	CORE GO GC313 (Charging Dock)	ELITE GO GC313Pro (Charging Capture)
Primary Function	Charging Dock with Display Output	Charging Dock with Display & Video Capture
100W GaN Wall Charger	V	V
Multiple Devices Charging	Yes, up to 3 USB devices	Yes, up to 3 USB devices
Fast Charging	V	V
Overload Protection	V	V
HDMI 4K60 Display	V	V
Video Capture	X	1080p60
USB Ports	1 x USB-C (3.2 Gen 1), 1 x USB-C (2.0), 1 x USB-A	2 x USB-C (3.2 Gen 1), 1 x USB-A
Special Features	Overload Protection, PD 3.0 Fast Charging	Overload Protection, PD 3.0 Fast Charging, Full HD Video Capture
Use Cases	Ideal for charging and connecting multiple devices, including those that require high-speed charging. Its compact size makes it an excellent alternative to bulkier gaming console docks, offering a sleek solution for connecting to larger displays.	Perfect for content creators who need to capture, stream, or record video from multiple Type-C devices. It supports passthrough for smartphones (both iOS and Android), tablets, handheld gaming consoles, and other Type-C devices with Display Alt Mode, making it highly versatile for mobile gaming and productivity setups.