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› Guermok 4K@60FPS Capture Card User Manual (Model GM-72A)

Guermok GM-72A

Guermok 4K@60FPS Capture Card User Manual

MODEL: GM-72A

1. Introduction

The Guermok 4K@60FPS Capture Card (Model GM-72A) is a versatile device designed for high-quality video capture and passthrough. It supports up to 4K@60FPS capture via USB 3.0 and 4K@60Hz HDMI passthrough, making it ideal for live streaming, gameplay recording, content creation, and device mirroring. With support for various resolutions and frame rates, including 2K@120FPS and 1080P@120FPS, and integrated 3.5mm audio input/output, this plug-and-play device offers broad compatibility across multiple operating systems and platforms.



Image: The Guermok 4K@60FPS Capture Card, a compact silver device with HDMI and USB ports.

2. Package Contents

Verify that all items listed below are included in your package:

- 1x HDMI Loop-out Capture Card
- 1x USB 3.0 to USB-C Adapter (A-side 3.0, B-side 2.0)
- 1x User Manual
- 1x HDMI Cable (1.5m)
- 1x 3.5mm Audio Cable



Image: Diagram showing the capture card, USB-C to USB-A adapter, HDMI cable, and 3.5mm audio cable included in the box.

3. Specifications

Feature	Detail
Brand	Guermok
Model Name	GM-72A
Hardware Interface	3.5mm Audio, HDMI, USB 3.0, USB 3.0 Type A, USB 3.0 Type C
Video Capture Resolution	4K@60FPS (MJPEG), 2K@120FPS, 1080P@120FPS
Max Loop-out Resolution	4096 x 2160@60Hz YUV420, 4096 x 2160@30Hz YUV444
Supported Video Formats	MJPEG, YUY2, NV12, XRGB
Operating System Compatibility	Windows 7/8/10/11, macOS, Linux, Android 5.0+, PadOS 17+
Recommended Uses	Game Streaming, Image Capture, Live Streaming, Video Recording
Item Weight	1.6 ounces
Item Dimensions	5.03 x 2.91 x 0.83 inches

Minimum System Requirements:

- **USB Port:** USB 3.0 or higher
- **Operating System:** Windows 10 (recommended)
- **Desktop PC:** Intel Core i5-3400 and NVIDIA GT 630 or equivalent
- **Laptop:** Intel Core i7-3537U 2.0 GHz and NVIDIA GT 735M or equivalent
- **RAM:** 4 GB

4. Setup Guide

4.1 Initial Connection

The Guermok capture card is designed for plug-and-play operation, requiring no drivers. Ensure you use a USB 3.0 or

higher port for optimal performance. If your computer only has USB-A ports, use the included USB-C to USB-A adapter.

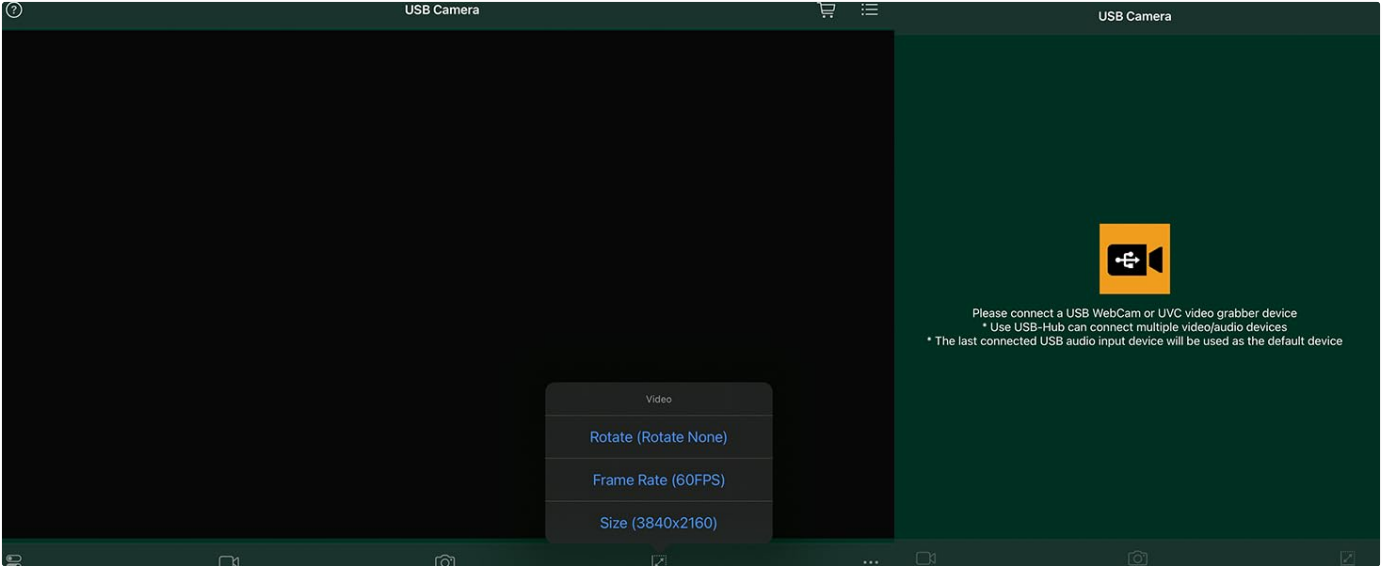


Image: Illustration of the USB-C to USB-A adapter, highlighting its use for flexible port connection.

Connect your HDMI source (e.g., game console, camera) to the HDMI IN port on the capture card. Connect the HDMI OUT port of the capture card to your display (monitor/TV) for passthrough. Finally, connect the USB 3.0 output of the capture card to your computer or tablet.

Stream While Gaming

Dual Output for Ultimate Gaming & Streaming Experience



HDMI Loop-Out
Real-Time Display



Mic Input
Live Voice Capture

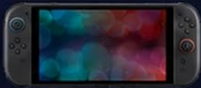


Audio Monitoring
Real-Time Feedback

YOUR DEVICE



PS5 / PS4



Switch 2



Xbox Series X/S



Camera / DSLR
and more

YOUR DISPLAY



Enjoy Smooth Gameplay
with 4K60Hz Loop-Out

YOUR STREAM



Capture and Stream
in Stunning Quality

HDMI IN
From Your Device



AUDIO OUT
Connect Your Headphones

USB 3.0
To Your Computer

MIC IN
Connect Your Mic



Game Streaming
Share Your Gameplay



Content Creation
Record High-Quality Videos



Online Teaching
Clear Audio & Video



Video Conferencing
Stable & Smooth Meetings

Image: A setup diagram illustrating how to connect the capture card between a gaming device (PS5/Switch), a monitor for loop-out, and a laptop for capture and streaming.

4.2 Console Specifics

For optimal performance with game consoles, follow these guidelines:

- **Nintendo Switch:** Use TV mode for a stable HDMI signal. Handheld mode does not output to HDMI.
- **PS5/PS4:** If necessary, turn off HDCP in the console's settings. Some games or content may require HDCP to be disabled.
- **Xbox:** Check output resolution and display settings to ensure compatibility with the capture device.
- **General:** Always start testing at 1080P@60Hz for best compatibility, then adjust to higher resolutions as needed. Use a high-quality HDMI cable for stable video and audio transmission.

GUERMOK | Pro Capture Pro Stream

Experience crystal-clear 4K gameplay and studio-grade audio
All in one device



What's in the Box



1.5m HDMI High-Definition Cable x 1
Used to connect video source devices such as game consoles, laptops, and cameras



USB-C to USB-A Adapter x 1
Compatible with different interfaces, supporting power supply and data transmission
Note: This adapter adopts a single-chip design. If it is recognized as USB 2.0, please flip the USB-C plug and reinsert it to enable USB 3.0 mode



3.5mm Audio Cable x 1
Used to connect external audio devices such as external speakers or microphones

Image: A visual guide detailing quick setup steps for various game consoles and handheld devices, including notes on HDCP and resolution settings.

4.3 Software Configuration (OBS Studio Example)

The capture card is compatible with various streaming and recording software. Here's a basic setup guide for OBS Studio:

1. Open OBS Studio. In the 'Sources' panel, click the '+' button and select 'Video Capture Device'.
2. Create a new source or select an existing one.
3. From the 'Device' dropdown, select 'Guermok USB3 Video'.
4. Configure video settings: For 4K capture, use MJPEG. For YUY2, 4K@25Hz is supported. For XRGB, 1080P@60Hz is supported.
5. For audio, add an 'Audio Input Capture' source and select the appropriate audio device (e.g., 'Realtek High Definition Audio').
6. In 'Advanced Audio Properties', set 'Audio Monitoring' to 'Monitor and Output' if you wish to hear the audio through your monitoring device.
7. **Important:** Restart OBS Studio after completing audio setup to ensure sound output.

Live Audio Monitoring

Connect Mic & Headphones for Clear, Real-Time Audio.



Mic Input
Capture your voice clearly



Audio Out
Real-time monitoring



Perfect Sync
Audio & video in real time



Clean Sound
Low latency & minimal noise



Perfect for All Your Audio Needs



Live Streaming



Gaming



Content Creation



Video Meeting

Image: Detailed screenshot of recommended OBS settings for different capture formats (MJPEG, YUY2, XRGB) and USB 3.0 connection tips.

USB Bandwidth Problems Guide

1 USB2.0 Limitations



USB 2.0 may cause:

- Black screen
- Stuttering
- Frame drops

✓ Use USB 3.0 or higher for stable performance.

2 4K Bandwidth Requirements

4K

4K recommended:
Use USB 3.0 or higher.

✓ Higher bandwidth ensures smooth 4K capture.

3 Dock / Hub Issues



Some hubs:
Share USB bandwidth. Bandwidth may be insufficient for capture.

✓ Use powered hubs or direct connection if possible.

4 Multiple USB Devices Conflicts



Hard drives, cameras, microphones may **compete for bandwidth**. This can cause lag or frame drops.

✓ Disconnect unnecessary devices while capturing.

5 USB-C Orientation Issues



Some devices may have **different speeds** when flipped.

✓ Try flipping the USB-C connector and test again.

6 Recommended Testing Method



USB 3.0+
Always connect **directly to the motherboard** USB port first.

✓ Avoid adapters, hubs, and front panel ports during testing.



In Summary:

USB bandwidth problems are one of the **most common issues** in 4K capture.

4K



Image: A comprehensive guide showing the steps to configure video and audio sources within OBS Studio for the capture card.

4.4 Setup Videos

Video: A demonstration of connecting and setting up the Guermok 4K60 & 1080P240 HDMI Capture Card for streaming, including audio input/output.

Video: A guide on setting up the Guermok Switch 2 TV-Dock Adapter & 4K Capture Card, demonstrating its use with a Nintendo Switch for dual-screen display and capture.

5. Operating Instructions

5.1 Capture Formats and Resolutions

The capture card supports multiple video capture formats and resolutions to suit various needs:

- **MJPEG:** Ideal for 4K@60FPS high-resolution capture, efficient for most workflows.
- **YUY2:** Supports 4K@25Hz, offering balanced compatibility and an uncompressed format suitable for editing.
- **XRGB:** Supports 1080P@60FPS, providing full color format for detailed visuals and clear desktop/UI capture.
- **NV12:** A supported video format for efficient compression.

High-frame-rate input is supported up to 2560x1440@120FPS and 1920x1080@120FPS for smooth capture of fast-paced content and gaming.

Multiple USB Video Capture Formats

Choose the right format for resolution, bandwidth, and compatibility.



MJPEG

MJPEG

High-Resolution Capture



4K@60FPS

Ideal for 4K streaming and recording.

YUY2

YUY2

Balanced Compatibility



4K@25FPS

Lower bandwidth usage with wide software compatibility.

XRGB

XRGB

Sharp UI Image Output



1080P@60FPS

Clear details for desktop and UI capture.



Available capture resolutions and frame rates depend on selected video format, USB bandwidth, and software settings.



MJPEG
4K@60FPS



YUY2
4K@25FPS



XRGB
1080P@60FPS



Works
with OBS



USB 3.0
SuperSpeed



Plug & Play
Driver-Free Setup

Image: A visual breakdown of the different video capture formats (MJPEG, YUY2, XRGB) and their supported resolutions and frame rates.

4K USB 3.0 HDMI CAPTURE CAR

FOR GAMING, STREAMING & CONTENT CREATION

CAPTURE FORMATS

- MJPEG Up to 4K@60FPS
- YUY2 Up to 4K@25FPS
- XRGB Up to 1080P@60FPS

HIGH FRAME-RATE INPUT SUPPORT

- Up to 2560x1440@120FPS
- Up to 1920x1080@120FPS

WIDE COMPATIBILITY

Works with your favorite devices and platforms.

- Windows macOS
- Linux Android
- Switch V2 PS4/PS5 Xbox Series X/S
- Quest 3/3s DSLR Cameras Webcams
- TV Boxes DVD/Blu-ray

GAMING & HANDHELD CAPTURE

GameConsole → Capture Card → Laptop for Capture

LIVE STREAMING SETUP

Mic → Capture Card → Laptop Stream & Record

CAMERA / WEBCAM RECORDING

DSLR/Webcam → Capture Card → Laptop for Recording

ONLINE MEETING & PRESENTATIONS

projector → Capture Card → Meeting Teaching

4K@60FPS Capture (MJPEG)

4K@60Hz HDMI Loop-Out

1440P@120 1080P@120 Input Support

PLUG & PLAY No Drivers Required

NO EXTERNAL POWER REQUIRED

WORKS ACROSS Windows/macOS Linux/Android

Image: A detailed comparison table of capture formats and their performance characteristics, including high-frame-rate input support.

5.2 Audio Integration

The capture card features 3.5mm audio input and microphone output ports, allowing you to integrate external audio directly into your stream or recording. Connect a headset or microphone to add commentary or ambient sound without additional equipment.

3 VERSATILE MODES FOR EVERY SCENARIO

Stream, record, and play with ultimate flexibility.

PC MODE

Capture and stream from your computer.

- Game Streaming
- Content Creation
- Live Broadcast



PC / Laptop

CONSOLE MODE

Play on your console and stream to your computer.

- PS5/PS4
- Xbox Series X|S
- Nintendo Switch

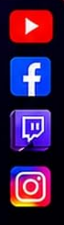


PC / Laptop

LIVE STREAMING MODE

Connect your camera to stream live to platforms.

- YouTube
- Facebook Live
- Twitch
- Instagram Live



Live Streaming

4K 60Hz Loop-Out



RGB / YUV444 High-Quality Image



RGB YUV444

YUV422 High Frame Rate



4K60 YUV422

Mic Input 3.5mm



Audio Output 3.5mm



USB 3.0 SuperSpeed 5Gbps





Plug & Play
No Driver Needed



Wide Compatibility
PC / Console / Camera



Real-Time Monitoring
Zero-Delay



Stable Performance
Smooth & Reliable



Portable
Lightweight Design



Multi-Scenario
All-in-One Solution

Image: An illustration of the live audio monitoring capabilities, showing connections for microphone input and audio output for real-time feedback.

5.3 Usage Modes

The Guermok capture card supports three versatile modes for various scenarios:

- **PC Mode:** Capture and stream directly from your computer. Ideal for game streaming, content creation, and live broadcasts using software like OBS Studio.
- **Console Mode:** Play on your console (PS5/PS4, Xbox Series X/S, Nintendo Switch) and stream to your computer.
- **Live Streaming Mode:** Connect your camera to stream live to platforms like YouTube, Facebook Live, Twitch, and

Recommended OBS Settings

Get the Best Performance from GM-72A



For 4K @ 60fps Capture (Recommended)

Format: MJPEG

Base (Canvas) Resolution	3840x2160
Output (Scaled) Resolution	3840x2160
Video Format	MJPEG
FPS	60
Color Space	Default
Color Range	Default
Buffering	Auto-Detect

OBS Settings Screenshot:

- General: Base (Canvas) Resolution: 3840x2160, Output (Scaled) Resolution: 3840x2160, Downscale Filter: Bicubic (Sharpened scaling, 16 samples), Common FPS Values: 60
- Video: Video Format: MJPEG, Color Space: Default, Color Range: Default

Why MJPEG for 4K60?

- ✓ Lower CPU usage
- ✓ Better 4K image quality
- ✓ Smoother high-frame capture
- ✓ Ideal for gaming & streaming



MJPEG | **Other Formats**

For 4K @ 25fps Capture

Format: YUY2

Base (Canvas) Resolution	3840x2160
Output (Scaled) Resolution	3840x2160
Video Format	YUY2
FPS	25
Better Compatibility	
Stable Video Output	

OBS Settings Screenshot:

- General: Base (Canvas) Resolution: 3840x2160, Output (Scaled) Resolution: 3840x2160, Downscale Filter: Bicubic (Sharpened scaling, 16 samples), Common FPS Values: 25
- Video: Video Format: YUY2, Color Space: Default, Color Range: Default

For 1080p @ 60fps Capture

Format: XRGB

Base (Canvas) Resolution	1920x1080
Output (Scaled) Resolution	1920x1080
Video Format	XRGB
FPS	60
Sharper Text & UI	
Clearer Desktop Capture	

OBS Settings Screenshot:

- General: Base (Canvas) Resolution: 1920x1080, Output (Scaled) Resolution: 1920x1080, Downscale Filter: Bicubic (Sharpened scaling, 16 samples), Common FPS Values: 60
- Video: Video Format: XRGB, Color Space: Default, Color Range: Default

USB 3.0 Connection Tips

To achieve full performance, please ensure your device is connected via USB 3.0.

- Use USB 3.0 port (Blue inside) ✓
- Try another USB port ✓
- Avoid USB hubs and adapters ✗
- Flip the USB-C connector ✓
- Use the included USB-C cable ✓

Note: Available resolutions and frame rates depend on your source device, USB bandwidth, cable quality, and software settings.

OBS Studio | **Windows 10/11** | **Plug & Play No Driver Needed**

Image: A visual representation of the three main usage modes: PC, Console, and Live Streaming, demonstrating different connection setups.

5.4 Specific Applications

The capture card is suitable for a wide range of applications:

- **Camera to Tablet Capture:** Connect your DSLR or webcam to a tablet for professional quality recording, live streaming, vlogging, online teaching, and video calls on the go.
- **Online Teaching & Conferences:** Provides professional-level video and audio input/output for business meetings, product demonstrations, and remote collaboration, ensuring high-quality images and sound. Supports microphone input for clear voice transmission.
- **VR & Drones:** Supports real-time video transmission from drones and is compatible with mainstream VR headsets (e.g., Quest 3) for high-definition capture and live streaming.

CAMERA TO TABLET CAPTURE

Professional Quality, Anytime, Anywhere

4K
4K 60
Capture

UVC
Plug & Play

Low Latency
Smooth Streaming

Powered via
USB 3.0

Portable
& Compact

Stable
& Reliable



4K60 UHD Capture
Stunning clarity
for professional content.

Loop-Out Support
Connect to a monitor
or TV for real-time preview.

USB 3.0 SuperSpeed
Stable transmission
with low latency.

Plug & Play
No driver needed.
Works with most apps.

Portable & Durable
Compact size, perfect
for on-the-go creators.



5Gbps

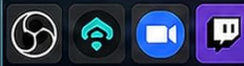


Image: An illustration demonstrating how to connect a camera to a tablet using the capture card for mobile content creation and live streaming.

Video: A demonstration of unlocking a dual-screen gaming experience with ultra-low latency, showcasing the capture card's performance with a Nintendo Switch.

6. Maintenance

To ensure the longevity and optimal performance of your Guermok 4K@60FPS Capture Card, follow these simple maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the device. Avoid liquid cleaners or abrasive materials.
- **Storage:** Store the device in a cool, dry place away from direct sunlight and extreme temperatures when not in use.
- **Handling:** Handle the device and its cables with care to prevent damage to ports and connectors.
- **Heat Dissipation:** The all-aluminum alloy body is designed for rapid heat dissipation. Ensure the device is placed in an area with adequate airflow to prevent overheating during extended use.

7. Troubleshooting

If you encounter issues with your Guermok 4K@60FPS Capture Card, refer to the following common problems and solutions:

7.1 No Signal or Black Screen Issues

Most signal issues are related to the signal source or cables.

1. Confirm that your HDMI source device is powered on and outputting video.
2. Replace the HDMI cable with a known working, high-quality cable.
3. Check if your capture software (e.g., OBS) detects the capture card. If the software detects the device, the capture card is working properly.
4. Some consoles may require HDCP to be disabled in their settings.
5. Start testing at 1080P@60Hz. If this works, gradually move to higher settings.



Image: A flowchart illustrating steps to diagnose and fix 'No Signal & Black Screen Issues', emphasizing checking the source, cable, and software detection.

7.2 Low Resolution or Detected as USB 2.0

If your device is detected as USB 2.0 or you experience low resolution, consider the following:

- Use a motherboard USB 3.0 port directly. Avoid USB 2.0 ports, hubs, or front panel ports if possible.
- If using the USB-C to USB-A adapter and the device is recognized as USB 2.0, try flipping the USB-C connector (180°) and reconnecting it. The high-speed chip connects on one side only.
- Manually set the resolution to 1920x1080 in your capture software.
- Different video formats support different resolution limits. Ensure your selected format matches your desired resolution.

Plug-Play Setup



Image: A guide addressing low resolution or USB 2.0 detection, explaining the difference between USB 2.0 and USB 3.0, and the importance of USB-C orientation.

7.3 Lag or Audio Noise

As this is a video decoding capture device, millisecond-level latency is normal. To optimize performance and reduce lag or audio noise:

- Use a USB 3.0 port for maximum bandwidth.
- Lower the capture resolution or FPS if experiencing significant lag.
- Select an appropriate video format (e.g., MJPEG for 4K@60Hz).
- For crackling or noise: Disable audio monitoring in your software, change the speaker output device, and restart OBS.

Wide Compatibility



Image: A diagram explaining the video decoding process and offering solutions for lag or audio noise, including using USB 3.0 and adjusting settings.

7.4 USB Bandwidth Problems

Bandwidth directly affects capture performance. To avoid issues:

- Always connect directly to a motherboard USB 3.0+ port.
- Avoid unstable hubs or low-speed shared connections. If using a hub, ensure it is powered.
- Disconnect unnecessary USB devices while capturing, as they may compete for bandwidth.

- Use the included high-quality USB 3.0 cable and avoid long or low-quality cables.

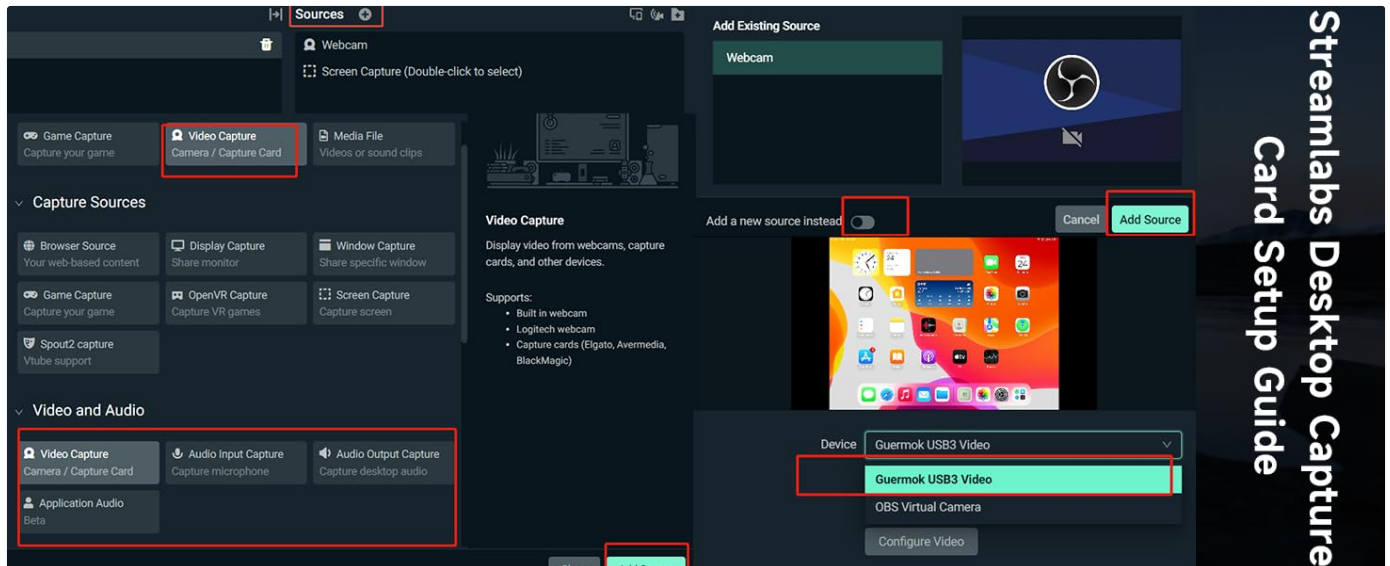


Image: A detailed guide on USB bandwidth problems, outlining USB 2.0 limitations, 4K bandwidth requirements, and recommended connection methods.

8. Warranty and Support

Guermok products are designed for reliability and performance. For any questions, technical assistance, or warranty inquiries, please contact Guermok customer support through the retailer's platform or the official Guermok website. Please retain your proof of purchase for warranty claims.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question