ACASIS VC-007PRO

ACASIS 4K60fps Video Capture Card User Manual

Model: VC-007PRO

1. Introduction

This manual provides comprehensive instructions for the ACASIS 4K60fps Video Capture Card (Model VC-007PRO). This device is designed for capturing and streaming high-quality video and audio from various sources, including gaming consoles and cameras, to a computer for live broadcasting or recording. It supports 4K60fps video capture, VRR, and features ultra-low latency.

2. Package Contents

Verify that all items are present in your product package:

- ACASIS 4K60fps Video Capture Card (VC-007PRO)
- HDMI Cable
- USB-C to USB-A Cable
- Installation Guide (this document)

3. Product Overview

The ACASIS 4K60fps Video Capture Card is a compact device with multiple ports for connectivity. Understanding its layout is crucial for proper setup and operation.

Image: Front view of the ACASIS 4K60fps Video Capture Card, showing the HDMI In and HDMI Out ports, and the USB-C port for connection to a computer.

Image: Detailed diagram illustrating the various input and output ports on the capture card, including Microphone (Input 3.5mm), Headset (Audio cable output), Mixer (Audio cable input), Light effect/fan switch, HDMI IN, HDMI OUT, and USB-C output to PC/Mac.

Key Components:

- **HDMI IN:** Connects to the source device (e.g., game console, camera).
- **HDMI OUT:** Connects to a display (e.g., TV, monitor) for pass-through viewing.
- **USB-C Output:** Connects to your computer (PC/Mac) for data transfer and power.
- **Microphone Input (3.5mm):** For connecting an external microphone.
- **Headset Output (3.5mm):** For connecting headphones or a headset for audio monitoring.
- **Mixer Input (3.5mm):** For connecting an audio mixer.
- **Light Effect/Fan Switch:** Controls the RGB lighting and cooling fan.

4. Setup Guide

Follow these steps to connect your ACASIS 4K60fps Video Capture Card to your devices.

Image: A typical setup showing a game console (PS5) connected via HDMI to the capture card's HDMI IN, the capture card's HDMI OUT connected to a monitor, and the capture card's USB-C port connected to a laptop for streaming/recording.

Connection Steps:

1. **Connect Source Device:** Use an HDMI cable to connect your source device (e.g., Xbox Series X/S, Xbox One, PS5, PS4/Pro, PC, camera) to the **HDMI IN** port on the capture card.
2. **Connect Display (Optional):** Use another HDMI cable to connect your display (e.g., TV, monitor) to the **HDMI OUT** port on the capture card. This allows for pass-through viewing of your source device.
3. **Connect to Computer:** Connect the provided USB-C to USB-A cable (or a USB-C to USB-C cable if your computer supports it) from the capture card's **USB-C Output** port to an available USB port on your computer (PC/Mac). The device is plug-and-play and typically does not require driver installation.
4. **Connect Audio Devices (Optional):**
    - For microphone input, connect your 3.5mm microphone to the**Microphone Input** port.
    - For audio monitoring, connect your 3.5mm headset or headphones to the**Headset Output** port.
    - For external audio mixing, connect your audio mixer to the**Mixer Input** port.

5. Operating Instructions

This section details how to use the capture card with streaming and recording software, using OBS Studio as an example.

Software Setup (OBS Studio Example):

The ACASIS capture card is compatible with various platforms and applications, including OBS, Streamlabs, Vmix, Zoom, and Microsoft Teams. For streaming and recording, OBS Studio is a commonly used application.

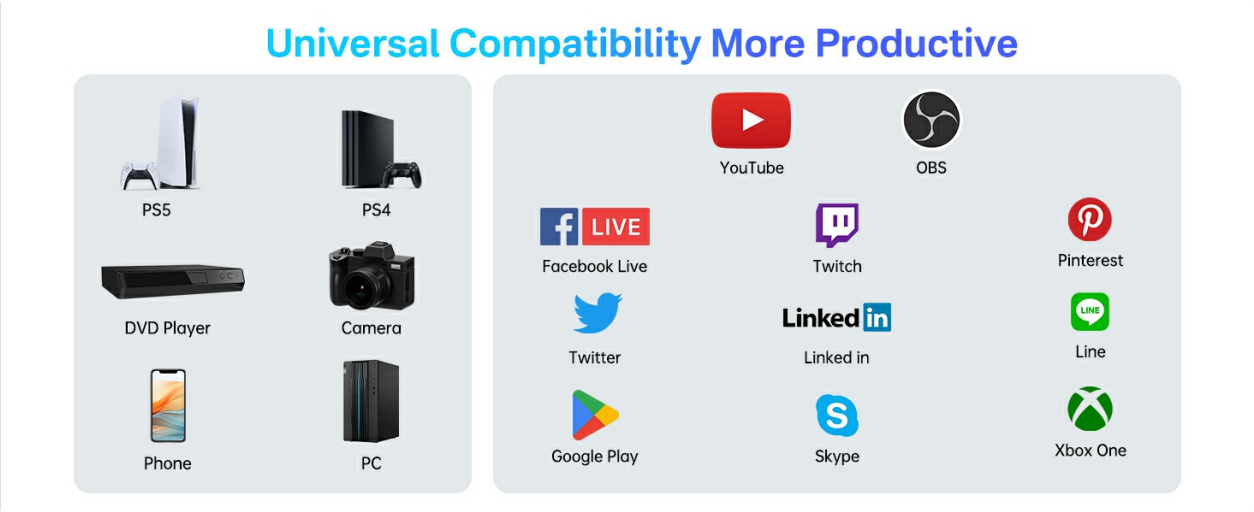


Image: A five-step guide for adding the video capture device in OBS Studio. Steps include opening OBS, clicking '+' in Sources, selecting 'Video Capture Device', creating a new source, and configuring properties.

1. **Open OBS Software:** Launch OBS Studio on your computer.
2. **Add Video Source:** In the 'Sources' panel, click the '**+**' icon.
3. **Select Video Capture Device:** From the list, choose '**Video Capture Device**'.
4. **Create/Select Source:** You can create a new source or select an existing device name. Click'**OK**'.
5. **Configure Properties:** In the properties window for the video capture device, set the following:
    - **Resolution/FPS Type:** Set to '**Custom**'.
    - **Resolution:** Select '**1920x1080**' (or desired resolution up to 4K).
    - **FPS:** Set to '**60**'.
    - **Video Format:** Select '**YUY2**'.
    - **Color Space:** Select '**Rec.709**'.
    - **Color Range:** Select '**Full**'.

    Click '**OK**' to save the settings.

Recording and Streaming Settings (OBS Studio):

For optimal performance, adjust your OBS output settings. These settings are optional if you are not recording or streaming.

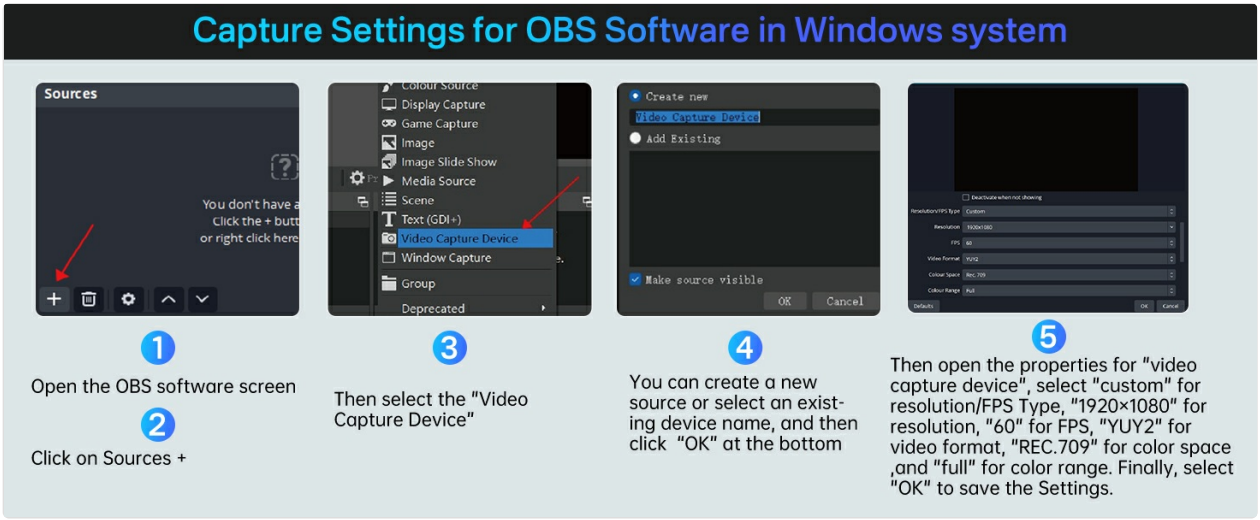


Image: A screenshot of OBS Studio's output settings for recording, highlighting video bitrate, encoder, audio bitrate, recording quality, and format.

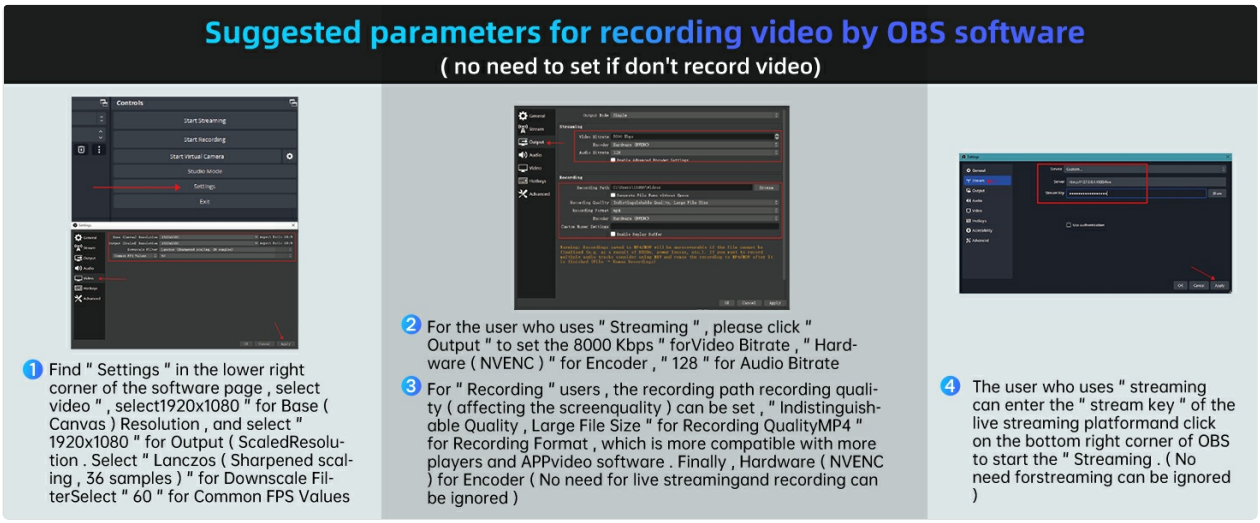


Image: A screenshot of OBS Studio's output settings for streaming, showing where to enter the stream key and start streaming.

1. **Access Settings:** In OBS, go to **Settings**' (usually in the bottom right corner).
2. **Output Settings (Recording):** Navigate to the **'Output**' tab and then **'Recording**'.
    - **Recording Quality:** Set to **'Indistinguishable Quality, Large File Size**' for high-quality recordings.
    - **Recording Format:** '**MP4**' is generally recommended for compatibility.
    - **Encoder:** Use '**Hardware (NVENC)**' if available for better performance, otherwise **Software (x264)**'.
    - **Video Bitrate:** Adjust based on desired quality and storage space (e.g., 8000 Kbps for 1080p).
    - **Audio Bitrate:** Set to '**128**' or higher.
3. **Output Settings (Streaming):** Navigate to the **'Output**' tab and then **'Streaming**'.
    - **Video Bitrate:** Adjust according to your internet upload speed and platform recommendations.
    - **Encoder:** Use '**Hardware (NVENC)**' if available.
    - **Audio Bitrate:** Set to '**128**' or higher.
4. **Video Settings:** In the '**Video**' tab, ensure '**Base (Canvas) Resolution**' and '**Output (Scaled) Resolution**' are set appropriately (e.g., 1920x1080). Set **Common FPS Values**' to '**60**'.

6. VRR Support

The ACASIS capture card supports Variable Refresh Rate (VRR), which helps eliminate screen tearing and stuttering for a smoother visual experience, especially in gaming. Ensure your source device and display also support VRR for this feature to function.

Image: A side-by-side comparison demonstrating the visual difference between VRR Open (smooth image) and VRR Close (image with tearing artifacts) on a gaming display.

When VRR is active, the display's refresh rate dynamically adjusts to match the frame rate output by the source device, resulting in a more fluid and responsive experience.

7. Cooling Fan and RGB Lighting

The capture card features an upgraded cooling fan to prevent overheating during extended use, ensuring stable performance. It also includes customizable RGB lighting effects.

Image: An internal view of the capture card highlighting the integrated cooling fan, designed to dissipate heat and maintain optimal operating temperatures.

Controls:

- The '**Light Effect/Fan Switch**' button on the device controls both the cooling fan and the RGB lighting.
- A single press typically toggles the fan on/off.
- Double-clicking the button may cycle through RGB lighting modes or turn the lighting on/off.

8. Compatibility

The ACASIS 4K60fps Video Capture Card offers broad compatibility with various hardware and software platforms.

Image: A chart illustrating the universal compatibility of the capture card with various input devices (PS5, PS4, DVD Player, Camera, Phone, PC) and output platforms/applications (YouTube, OBS, Facebook Live, Twitch, Pinterest, Twitter, LinkedIn, Line, Google Play, Skype, Xbox One).

Supported Hardware:

- Gaming Consoles: Xbox Series X/S, Xbox One, PS5, PS4/Pro, Nintendo Switch
- Computers: PC (Windows), Mac (macOS)
- Cameras: DSLR, Camcorders, Action Cams
- Other HDMI Sources: DVD Players, Tablets, Phones (with appropriate adapters)

Supported Software/Platforms:

- OBS Studio
- Streamlabs OBS
- Vmix
- Zoom
- Microsoft Teams
- YouTube
- Twitch
- Facebook Gaming

Image: A setup demonstrating the capture card's use in a video conferencing scenario, connecting a camera to a computer for enhanced video input.

9. Troubleshooting

This section addresses common issues you might encounter and provides potential solutions.

No Signal / Black Screen:

- **Check Connections:** Ensure all HDMI and USB cables are securely connected.
- **HDCP Content:** This device **DOES NOT SUPPORT HDCP**. If your source device is outputting HDCP-protected content (e.g., certain streaming services, Blu-ray players), you will not get a signal. Disable HDCP on your source device if possible, or use a non-HDCP source.
- **4K Display Requirement:** To achieve 4K resolution, ensure your display and source device are 4K compatible.
- **Cable Quality:** Use high-quality HDMI cables that support 4K60fps transmission. Lower quality cables may cause signal issues or limit resolution/frame rate.
- **Software Configuration:** Verify that the capture card is correctly selected as the video source in your streaming/recording software (e.g., OBS) and that resolution/FPS settings are appropriate.

Audio Issues:

- **Check Audio Settings:** In your computer's sound settings and streaming software, ensure the correct audio input (from the capture card) and output devices are selected.
- **Microphone/Headset Connections:** Confirm external audio devices are properly plugged into the capture card's 3.5mm ports.

Latency/Lag:

- **USB Port:** Ensure the capture card is connected to a USB 3.0 (or higher) port on your computer for optimal bandwidth. USB 2.0 ports may introduce higher latency.
- **Computer Performance:** Ensure your computer meets the minimum system requirements for streaming/recording at your desired resolution and frame rate. Close unnecessary applications.
- **Software Settings:** Adjust buffer settings in your streaming software (e.g., OBS) if available.

4K Resolution Not Working:

- **4K Monitor/Device:** As noted, 4K output requires a 4K compatible monitor or device.
- **Source Device Settings:** Ensure your source device (e.g., console) is configured to output 4K resolution.
- **OBS Settings:** Double-check that the resolution in OBS is set to 4K (e.g., 3840x2160) if your system supports it.

10. Specifications

Technical specifications for the ACASIS 4K60fps Video Capture Card (Model VC-007PRO).

Feature	Specification
Brand	ACASIS
Model Number	VC-007PRO
Hardware Interface	USB Type C

Video Capture Resolution	4K 60fps (Input/Pass-through), 4K 60fps (Recording)
Operating System Support	Windows, macOS
Hardware Platform	Xbox Series X/S, Xbox One, PS5, PS4/Pro, PC/Mac
Item Weight	4.2 ounces
Package Dimensions	6.14 x 4.57 x 2.44 inches
VRR Support	Yes
HDCP Support	No

11. Maintenance

To ensure the longevity and optimal performance of your ACASIS 4K60fps Video Capture Card, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the device. Avoid using liquid cleaners or abrasive materials.
- **Ventilation:** Ensure the device's ventilation openings are not obstructed to allow proper airflow for the cooling fan.
- **Storage:** Store the capture card in a cool, dry place away from direct sunlight and extreme temperatures when not in use.
- **Handling:** Handle the device with care to avoid physical damage to ports or the casing.

12. Warranty and Support

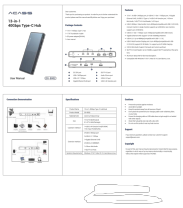
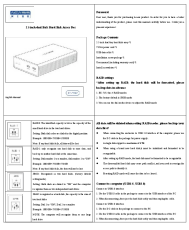
For technical assistance, warranty information, or any inquiries regarding your ACASIS 4K60fps Video Capture Card, please contact ACASIS customer support.

- **Email Support:** support@acasis.com
- **Online Service:** 7x24 hours online support is available.

Please refer to the official ACASIS website or your purchase documentation for the most up-to-date warranty terms and conditions.

Related Documents - VC-007PRO

	ACASIS G4Pro/G4Max eGPU Enclosure User Manual and Specifications Comprehensive user manual for the ACASIS G4Pro and G4Max external GPU (eGPU) enclosures. Includes specifications, installation guide, compatibility, troubleshooting FAQ, and warranty information.

	[ACASIS EC-1401 6-in-1 USB-C SSD Enclosure and Docking Station User Manual] User manual for the ACASIS EC-1401, a 6-in-1 USB-C Magnetic SSD Enclosure and Docking Station for Mobile Phones. Includes specifications, installation instructions, and troubleshooting FAQs in multiple languages.
	[ACASIS 13-in-1 40Gbps Type-C Hub - Product Overview and Specifications] Detailed information about the ACASIS 13-in-1 40Gbps Type-C Hub (DS-9002), including its features, specifications, package contents, and connection capabilities for expanding your device connectivity.
	[ACASIS CM073 10-in-1 USB-C Hub with M.2 SSD Enclosure User Manual] User manual for the ACASIS CM073 10-in-1 USB-C Hub, detailing its features including M.2 SSD enclosure, 4K HDMI, USB 3.1 ports, Gigabit Ethernet, and SD/TF card reader.
	[USB-C 14-in-1 Multifunctional Docking Station (DS-0202) - ACASIS] ACASIS USB-C 14-in-1 Multifunctional Docking Station (DS-0202) provides comprehensive connectivity including RJ45, DP 1.2, SD/TF 3.0, USB-A 3.1, USB-C 3.1, Audio, PD 3.0, USB-A 2.0, and HDMI 2.0. This guide covers specifications, tips, and frequently asked questions for optimal use.
	[ACASIS EC-7252 2.5-inch Dual Disk Hard Disk Array Box User Manual] User manual for the ACASIS EC-7252, a 2.5-inch dual-disk hard disk array box supporting RAID 0, RAID 1, JBOD, and SPAN modes. Includes setup, connection, warranty, and FAQ information.