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WAVLINK HG901U

WAVLINK HG901U 4K HDMI Video Capture Card User Manual

Model: HG901U | Brand: WAVLINK

1. Introduction

This manual provides comprehensive instructions for the setup, operation, and maintenance of your WAVLINK HG901U 4K HDMI Video Capture Card. This device is designed to capture and stream high-quality video and audio from various sources, including game consoles, cameras, and other HDMI-enabled devices, to your computer for recording or live broadcasting.

The WAVLINK HG901U supports video capture up to 4K@30Hz, 2K@60Hz, or 1080p@120Hz, and offers VRR pass-through up to 4K@60Hz HDR10, 2560x1440@144Hz, or 1080p@240Hz. It features ultra-low latency pass-through and wide compatibility with various operating systems and streaming platforms.

2. Package Contents

Verify that all items are present in the package:

- 1x WAVLINK 4K@60Hz HDMI Grabber G2 PRO (HG901U)
- 1x HDMI (Female) to HDMI (Female) Cable
- 1x USB-A to USB-C Cable
- 1x USB-A to USB-C Converter
- 1x Quick Start Guide



Image: The WAVLINK HG901U capture card, HDMI cable, USB-C to USB-A cable, USB-A to USB-C converter, and quick start guide, as included in the product package.

3. Product Overview

The WAVLINK HG901U is a compact and versatile video capture device. Familiarize yourself with its components and ports.



Image: Front and back view of the WAVLINK HG901U 4K HDMI Video Capture Card, showcasing its sleek design and port layout.



Image: Detailed diagram illustrating the input and output ports of the WAVLINK HG901U. This includes HDMI In, HDMI Out, USB-C, Line Out, Mic In, and Line In, along with examples of connected devices.

Port Descriptions:

- **HDMI In:** Connect your video source (e.g., game console, camera, PC) here. Supports up to 4K@60Hz input.
- **HDMI Out (Loop-out):** Connect to a display (e.g., TV, monitor) for real-time pass-through monitoring. Supports up to 4K@60Hz output.
- **USB-C:** Connect to your computer (laptop/desktop PC) for video capture and power. Supports up to 4K@30Hz capture.
- **Line Out (3.5mm):** Connect headphones or speakers for audio monitoring.
- **Mic In (3.5mm):** Connect an external microphone for commentary or voice input.
- **Line In (3.5mm):** Connect an external audio source, such as a mixing console, for additional audio input.



Image: The WAVLINK HG901U capture card demonstrating its portable size and modern design, along with its physical dimensions for reference.

4. Setup Instructions

Follow these steps to set up your WAVLINK HG901U capture card:

1. **Connect Video Source:** Use an HDMI cable to connect your video source (e.g., PS5, Xbox, PC, camcorder) to the **HDMI In** port on the capture card.
2. **Connect Display (Optional):** If you wish to monitor your video source on a separate screen without latency, connect an HDMI cable from the **HDMI Out** (Loop-out) port on the capture card to your TV or monitor.
3. **Connect to Computer:** Connect the supplied USB-C to USB-A cable (or USB-C to USB-C with converter) from the **USB-C** port on the capture card to an available USB 3.0 port on your computer. The device is powered via USB and does not require an external power supply.
4. **Connect Audio Devices (Optional):**
    - For microphone input, connect your microphone to the **Mic In** (3.5mm) port.
    - For additional audio input (e.g., from a mixing console), connect it to the **Line In** (3.5mm) port.

- For audio monitoring, connect your headphones or speakers to the**Line Out** (3.5mm) port.

5. **Software Setup:** The WAVLINK HG901U is plug-and-play and generally does not require driver installation. It is compatible with various third-party software for recording and streaming.
    - Download and install your preferred streaming/recording software (e.g., OBS Studio, Streamlabs OBS, VLC, Zoom, Microsoft Teams).
    - Open the software and add a "Video Capture Device" source. Select "WAVLINK Capture" or a similar name from the device list.
    - Configure video resolution, frame rate, and audio input settings within the software.

Note: This video capture card does not support HDCP (High-bandwidth Digital Content Protection). Ensure HDCP is disabled on your source device if you encounter issues with video signal.
Note: If using a tablet or phone as an input device, ensure it supports video output.



Image: Various gaming consoles and a PC surrounding the WAVLINK HG901U capture card, illustrating its plug-and-play convenience and wide compatibility with different devices without requiring driver installation.

5. Operating Instructions

5.1. Recording Video

To record video using your WAVLINK HG901U and OBS Studio (or similar software):

1. Ensure all connections are secure as described in the Setup section.
2. Launch OBS Studio.
3. In the "Sources" panel, click the '+' icon and select "Video Capture Device".
4. Create a new source or select an existing one. In the properties window, choose "WAVLINK Capture" (or similar) from the "Device" dropdown.
5. Configure the resolution, FPS, and video format as needed. For audio, select the appropriate audio input device (e.g., "Digital Audio Interface (WAVLINK Capture)").
6. Adjust audio levels in the "Audio Mixer" panel. If using an external microphone or line-in, ensure those audio sources are also added and configured.
7. Click "Start Recording" in the "Controls" panel to begin recording.



Image: A computer screen displaying OBS Studio interface, demonstrating 4K@30Hz video capture from a game console via the WAVLINK HG901U. The capture card is visible on the desk, connected to the setup.

5.2. Live Streaming

To live stream using your WAVLINK HG901U and OBS Studio:

1. Follow steps 1-5 from the "Recording Video" section to set up your video and audio sources in OBS Studio.
2. Go to "Settings" > "Stream" in OBS Studio. Select your streaming service (e.g., Twitch, YouTube) and enter your stream key.
3. Adjust output settings under "Settings" > "Output" for optimal streaming quality and performance based on your internet connection.
4. Click "Start Streaming" in the "Controls" panel to begin your live broadcast.



Image: A user monitoring gameplay on a large screen via the HDMI loop-out feature of the WAVLINK HG901U, while simultaneously capturing the feed for streaming or recording. This setup ensures real-time visual feedback.



Image: The WAVLINK HG901U capture card shown with various logos of compatible streaming and communication platforms, including OBS, YouTube, Twitch, Zoom, and Microsoft Teams, highlighting its broad application.

5.3. Enhanced Audio Capture

The WAVLINK HG901U allows for superior audio integration:

- Use the **Mic In** port for direct microphone connection, enabling live commentary during gameplay or presentations.
- The **Line In** port can be used to connect external audio mixers or other audio devices, allowing for professional audio mixing directly into your stream or recording.
- Monitor all audio through the **Line Out** port with headphones or speakers to ensure optimal sound quality.



Image: A detailed setup showing the WAVLINK HG901U connected to a gaming console, a monitor, a laptop, an external microphone, and an audio mixer, illustrating its comprehensive audio capture capabilities.

6. Compatibility

The WAVLINK HG901U is designed for broad compatibility:

Supported Operating Systems:

- Windows 7/8/10/11 or later
- Mac OS 10.12 or later
- Android 9 or later
- Linux

Recommended System Requirements:

- CPU: Intel Core i5 or higher

- RAM: 8GB or higher

Supported Third-Party Software/Platforms:

- OBS Studio
- Streamlabs OBS
- Vmix
- Zoom
- Microsoft Teams
- VLC
- QuickTime
- PotPlayer
- XSplit
- YouTube
- Twitch
- Facebook Gaming
- And more...

7. Specifications

Feature	Description
Brand	WAVLINK
Model Number	HG901U (XQAMJP-HG900U-US)
Hardware Interface	HDMI, USB 3.0 Type C
Video Input Resolution	Up to 4K@60Hz
Video Loop-out Resolution	Up to 4K@60Hz HDR10, 2560x1440@144Hz, 1080p@240Hz
Video Capture Resolution	4K@30Hz, 2K@60Hz, 1080p@120Hz
Audio Input	3.5mm Mic In, 3.5mm Line In
Audio Output	3.5mm Line Out
Operating System Compatibility	Windows 7/8/10/11+, Mac OS 10.12+, Android 9+, Linux
Power Supply	USB Powered (5V)
Item Weight	11.3 ounces (approx. 320g)
Dimensions	6.69 x 5.12 x 1.93 inches (approx. 17 x 13 x 4.9 cm)
Color	Black

8. Troubleshooting

If you encounter issues with your WAVLINK HG901U, refer to the following common solutions:

8.1. No Video Signal / Black Screen

- **Check Connections:** Ensure all HDMI and USB cables are securely connected. Try re-plugging them.
- **HDCP:** The capture card does not support HDCP. Verify that HDCP is disabled on your source device (e.g., game console settings). Some devices may automatically enable HDCP for certain content.
- **Source Device Output:** Confirm your source device is outputting video correctly. Test the HDMI source directly with a monitor.
- **Software Selection:** In your capture software (e.g., OBS), ensure the correct "Video Capture Device" (WAVLINK Capture) is selected and active.
- **Resolution/Refresh Rate:** Ensure the input resolution and refresh rate from your source are within the supported range of the capture card.

8.2. No Audio / Poor Audio Quality

- **Audio Source in Software:** In your capture software, verify that the correct audio input device (e.g., "Digital Audio Interface (WAVLINK Capture)") is selected and its volume is not muted.
- **Physical Audio Connections:** Ensure headphones/speakers are correctly plugged into the**Line Out** port, and microphones/mixers are correctly plugged into **Mic In** or **Line In**.
- **System Audio Settings (Windows/Mac):** Check your computer's sound settings to ensure the WAVLINK device is recognized and not muted. Sometimes, operating system updates (e.g., Windows 11 privacy settings for microphones) can disable access to recording devices. Verify that applications have permission to access your microphone/recording devices.
- **Ground Loop Noise:** If you hear a high-pitched white noise, it might be a ground loop issue. Try connecting all devices to the same power strip or using a ground loop isolator for audio cables.

8.3. Device Not Detected by Computer

- **USB Port:** Try connecting the capture card to a different USB 3.0 port on your computer. Ensure it's a USB 3.0 (blue port) for optimal performance.
- **USB Cable/Converter:** Test with a different USB cable or ensure the USB-A to USB-C converter is properly seated if used.
- **Restart Computer:** A simple restart can often resolve detection issues.
- **Device Manager (Windows):** Check "Device Manager" to see if the device is listed under "Sound, video and game controllers" or "Universal Serial Bus devices" and if there are any error indicators.
- **Software Conflicts:** Close any other applications that might be trying to access video or audio devices.

8.4. Lag or Stuttering During Capture/Streaming

- **Computer Performance:** Ensure your computer meets the recommended system requirements (Intel Core i5+, 8GB RAM+). Close unnecessary background applications.
- **USB Bandwidth:** Ensure the capture card is connected to a dedicated USB 3.0 port and not sharing bandwidth with other high-demand USB devices.
- **Software Settings:** Reduce the output resolution or frame rate in your capture software. Lowering the bitrate for streaming can also help.
- **Internet Connection:** For streaming, a stable and fast internet connection is crucial. Test your upload speed.

9. Maintenance

To ensure the longevity and optimal performance of your WAVLINK HG901U capture card:

- **Cleaning:** Use a soft, dry cloth to clean the device. Avoid liquid cleaners or abrasive materials.

- **Storage:** Store the device in a cool, dry place away from direct sunlight and extreme temperatures.
- **Handling:** Handle the device carefully to avoid physical damage to ports or the casing.
- **Cable Management:** Avoid bending or kinking cables excessively, as this can damage internal wires.

10. Warranty and Support

WAVLINK provides technical support for its products. If you require assistance, please contact:

- **Phone Support:** +18889730883 (UTC-5) Mon - Fri 9 AM - 6 PM
- **Email Support:** Contact@wavlink.com

WAVLINK aims to provide solutions within 8 hours and offers life-long technical support. Please refer to your product's specific warranty information for details on coverage.

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