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- › [Blackmagic Design](#) /
- › [Blackmagic Design Web Presenter 4K Instruction Manual](#)

Blackmagic Design BDLKWEBPTR4K

Blackmagic Design Web Presenter 4K Instruction Manual

Model: BDLKWEBPTR4K

Brand: Blackmagic Design

1. PRODUCT OVERVIEW

The Blackmagic Design Web Presenter 4K is a compact streaming solution designed for professional live streaming in various resolutions, including 720p, 1080p HD, and 2160p Ultra HD. It allows direct connection to 5G or 4G mobile phones for data, and facilitates live streaming to platforms like YouTube and Facebook. The device features a front panel LCD for monitoring video, audio meters, and graphs, along with comprehensive menu controls. It also functions as a USB webcam output for various video software, and includes the Blackmagic Web Presenter Utility software for both Mac and Windows platforms.

Key Features:

- Direct Streaming Interface with 12G-SDI In/Out
- HDMI Monitor Output
- USB Webcam Output
- SDI Monitor Output
- Integrated LCD Display for monitoring

2. PACKAGE CONTENTS

Upon unpacking your Blackmagic Design Web Presenter 4K, please ensure all the following items are present:

- Blackmagic Design Web Presenter 4K Unit
- Front Panel LCD Menus (integrated)
- Technical Monitoring features (integrated)
- SDI Loop Output (integrated)
- SDI and HDMI Monitor Ports (integrated)
- Bright LCD Screen (integrated)
- 4-pin XLR Input for DC Power (integrated)

- SDI and HDMI Video Outputs (integrated)
- SDI and HDMI Audio Inputs (integrated)
- SDI and HDMI Audio Outputs (integrated)
- Ethernet and USB Data Connections (integrated)
- Blackmagic Web Presenter Utility Software (downloadable from Blackmagic Design website)
- Power cable (IEC cord, may be sold separately depending on region)

3. PRODUCT LAYOUT AND CONNECTIONS

Front Panel

The front panel provides essential controls and a display for monitoring your stream status and settings.



Image: Front panel of the Blackmagic Design Web Presenter 4K, showing the 'ON AIR', 'MENU', 'OFF', 'SET', 'CALL', and 'LOCK' buttons, along with the LCD screen and a rotary knob for navigation.

The front panel includes buttons for 'ON AIR', 'OFF', 'MENU', 'SET', 'CALL', and 'LOCK', along with a rotary knob for navigating menus and adjusting settings. The integrated LCD screen displays live video, audio levels, and streaming status.

Rear Panel Connections

The rear panel houses all the necessary input and output ports for power, video, audio, and data connections.



Image: Rear panel of the Blackmagic Design Web Presenter 4K, detailing the power input, 12V DC input, Ethernet port for live streaming, USB-C port for webcam output, HDMI monitor output, SDI monitor output, SDI loop output, and SDI input.

- **Power Input:** Standard AC power input (IEC C14 connector).
- **12V DC:** Alternative 12V DC power input (4-pin XLR).

- **Live Stream (Ethernet):** RJ45 Ethernet port for network connection and live streaming.
- **Webcam Out (USB-C):** USB-C port for connecting to a computer, allowing the Web Presenter to function as a webcam.
- **Monitor Out (HDMI):** HDMI output for monitoring your stream.
- **Monitor Out (SDI):** SDI output for monitoring your stream.
- **SDI Loop Out:** SDI output that loops the input signal.
- **SDI In:** SDI input for your video source.

4. SETUP GUIDE

4.1 Initial Connections

1. **Power Connection:** Connect the provided power cable to the AC power input on the rear panel and plug it into a power outlet. Alternatively, use a 12V DC power source via the 4-pin XLR input.
2. **Network Connection:** Connect an Ethernet cable from your network router or switch to the "Live Stream" Ethernet port on the rear panel. This is essential for internet streaming.
3. **Video Input:** Connect your video source (e.g., camera, video switcher) to the "SDI In" port using an SDI cable. Ensure your source provides a compatible SDI signal.
4. **Monitoring (Optional):** Connect a monitor to either the "Monitor Out (HDMI)" or "Monitor Out (SDI)" port to view your video feed and streaming status.
5. **USB Webcam Output (Optional):** For use as a webcam, connect a USB-C cable from the "Webcam Out" port to your computer.

4.2 Software Installation and Configuration

The Blackmagic Web Presenter Utility software is required for initial setup and advanced configuration. It is compatible with both Mac and Windows operating systems.

1. **Download Software:** Visit the official Blackmagic Design website and download the latest "Blackmagic Web Presenter Utility" software for your operating system.
2. **Install Software:** Follow the on-screen instructions to install the utility software on your computer.
3. **Connect to Computer:** Connect the Web Presenter 4K to your computer using the USB-C port or via the Ethernet network.
4. **Launch Utility:** Open the Blackmagic Web Presenter Utility. The software should detect your device.
5. **Configure Stream Settings:** Within the utility, enter your streaming platform's server URL and stream key. This information is provided by your streaming service (e.g., YouTube, Facebook Live).
6. **Adjust Video/Audio Settings:** Use the utility to configure video resolution, frame rate, audio input, and other streaming parameters as needed.

5. OPERATING INSTRUCTIONS

5.1 Going Live

Once your Web Presenter 4K is connected and configured via the utility software:

1. Ensure your video source is active and connected to the "SDI In" port.
2. Verify the input signal on the front panel LCD.
3. Press the **ON AIR** button on the front panel to begin streaming. The button will illuminate, and the LCD will indicate "ON AIR".

4. To stop streaming, press the **OFF** button.

5.2 Monitoring Your Stream

The front panel LCD provides real-time feedback on your stream. You can view the live video feed, audio levels, data rate, and cache status.

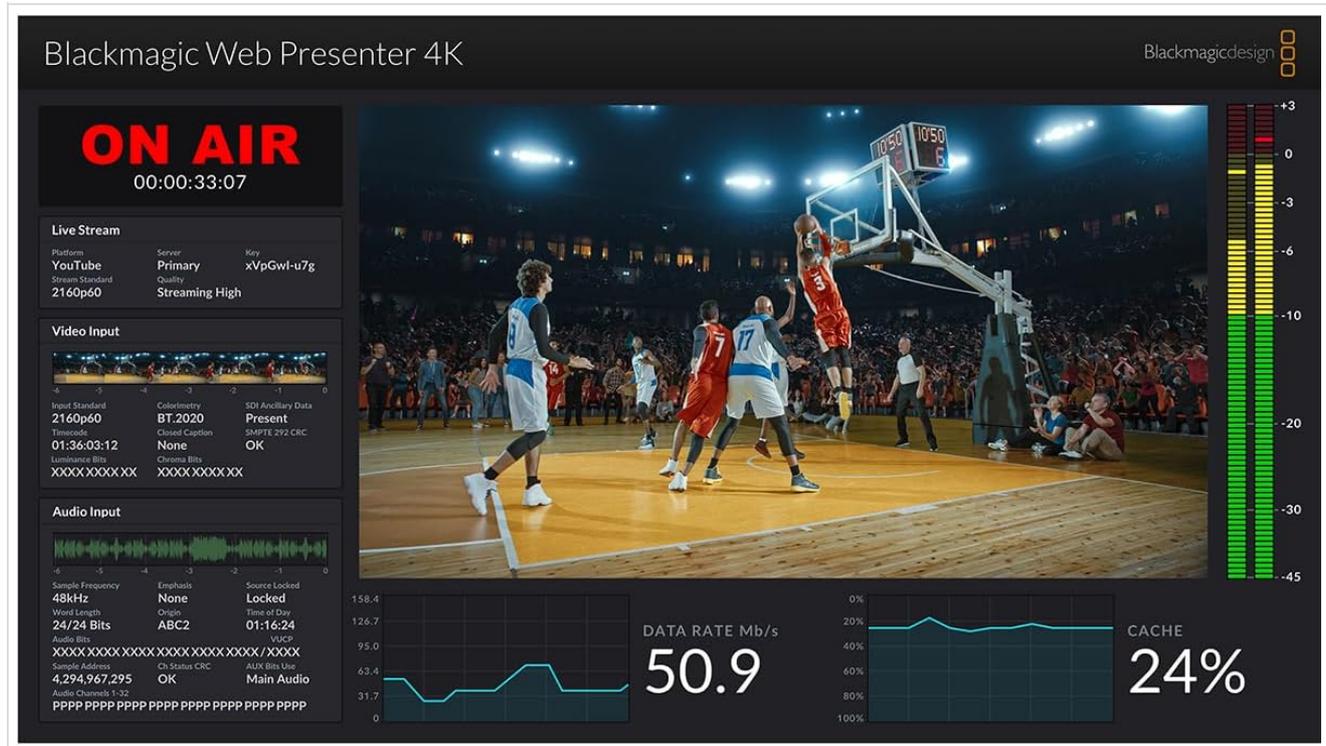


Image: The LCD screen of the Web Presenter 4K displaying comprehensive live stream information, including platform, stream standard, quality, video input format, audio input details, data rate, and cache percentage.

Use the rotary knob and menu buttons to navigate through different monitoring screens and adjust settings directly from the front panel.

5.3 Using as a USB Webcam

When connected to a computer via the USB-C "Webcam Out" port, the Web Presenter 4K acts as a standard UVC (USB Video Class) and UAC (USB Audio Class) device. This allows it to be recognized as a webcam by most video conferencing and streaming software without requiring special drivers.

1. Connect the USB-C cable from the Web Presenter 4K to your computer.
2. Open your desired video software (e.g., Zoom, Skype, OBS, Microsoft Teams).
3. In the software's video/audio settings, select "Blackmagic Design Web Presenter 4K" as your camera and microphone source.

6. MAINTENANCE

To ensure the longevity and optimal performance of your Blackmagic Design Web Presenter 4K, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the unit. Avoid abrasive cleaners, solvents, or harsh chemicals. For the LCD screen, use a screen-specific cleaning solution and a microfiber cloth.
- **Ventilation:** Ensure the unit has adequate ventilation. Do not block the ventilation holes on the sides or bottom of the device. Operate in a well-ventilated area to prevent overheating.
- **Storage:** When not in use for extended periods, store the Web Presenter 4K in a cool, dry place, away from

direct sunlight and extreme temperatures.

- **Firmware Updates:** Regularly check the Blackmagic Design website for firmware updates. Keeping your device's firmware up-to-date ensures access to the latest features and performance improvements.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your Blackmagic Design Web Presenter 4K.

7.1 No Power / Unit Not Turning On

- **Check Power Cable:** Ensure the AC power cable is securely connected to the unit and a working power outlet.
- **Alternative Power:** If using the 12V DC input, verify the power supply is correctly connected and providing the specified voltage.
- **Power Outlet:** Test the power outlet with another device to confirm it is functional.

7.2 No Video Input Detected

- **SDI Cable:** Ensure the SDI cable is securely connected to the "SDI In" port on the Web Presenter 4K and to your video source.
- **Video Source:** Verify that your video source is powered on and outputting a signal. Check its settings for correct output format.
- **SDI Compatibility:** Confirm that your video source's SDI output is compatible with the Web Presenter 4K's input specifications (e.g., 12G-SDI).

7.3 Streaming Issues (Buffering, Disconnections)

- **Network Connection:** Ensure the Ethernet cable is firmly connected and your network is stable. A wired connection is highly recommended for streaming.
- **Internet Speed:** Verify your internet upload speed meets the requirements for your chosen streaming resolution and bitrate.
- **Stream Key/Server URL:** Double-check that the stream key and server URL entered in the Blackmagic Web Presenter Utility are correct for your streaming platform.
- **Platform Status:** Check the status of your streaming platform (e.g., YouTube, Facebook) for any service outages.

7.4 Latency Issues

- **USB Output Latency:** When using the USB webcam output, some latency (around 200ms) can be expected. This is inherent to the USB video class standard and processing.
- **Network Latency:** For network streaming, ensure your network infrastructure is optimized. Minimize network congestion and use a direct wired connection.
- **Software Settings:** Check for any latency-reducing settings within your streaming software or the Blackmagic Web Presenter Utility.

8. SPECIFICATIONS

Feature	Detail
Product Dimensions	9.1 x 9.1 x 9.1 inches

Item Weight	2.1 pounds
ASIN	B09BJPD596
Item Model Number	BDLKWEBPTR4K
Brand	Blackmagic Design
Photo Sensor Technology	Other
Video Capture Resolution	4K
Maximum Focal Length	1
Maximum Aperture	1.8 f
Flash Memory Type	SD
Video Capture Format	2160p (using H.264 codec)
Supported Audio Format	AAC, PCM, Dolby Digital/AC-3
Screen Size	2.2 Inches
Connectivity Technology	Ethernet

9. WARRANTY AND SUPPORT

Blackmagic Design products are covered by a limited manufacturer's warranty. For specific warranty terms, duration, and conditions, please refer to the warranty card included with your product or visit the official Blackmagic Design website.

For technical support, product registration, software downloads, and additional resources, please visit the Blackmagic Design support page:

[Blackmagic Design Support](#)

It is recommended to register your product to receive important updates and support notifications.

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This manual is for informational purposes only. Specifications are subject to change without notice.