

MacroSilicon MS2109 HDMI Capture Card

Technical Specifications, Frequently Asked Questions & OBS Studio Setup Guide

Technical Specifications

FEATURE / PARAMETER	SPECIFICATION DETAILS
Main Processing Chipset	MacroSilicon MS2109 Hardware Video Encoder
HDMI Input Interface	HDMI 1.4 (Max input: 4K @ 30Hz / 1080p @ 60Hz)
USB Output Interface	USB 2.0 (Type-A) Driverless Protocol
Video Output Formats	YUY2, MJPEG
Max Output Resolution	1080p @ 30Hz or 720p @ 60Hz
Audio Input & Output	L-PCM 16-bit 48kHz (UAC Audio Compliant)
Driver Compliance	Plug & Play — UVC (Video) & UAC (Audio) Driverless Standard
OS Compatibility	Windows (7, 8, 10, 11), macOS, Linux, Android
Software Support	OBS Studio, Streamlabs, PotPlayer, VLC, Zoom, MS Teams, Skype
Power Requirements	USB Bus-Powered (Max 0.4A / 5V DC) — No external power needed

Frequently Asked Questions (FAQ)

1. What chip is inside this capture card?

This capture card is equipped with the genuine **MacroSilicon MS2109** high-performance USB video processing chipset, ensuring clear video processing without requiring third-party drivers.

2. Do I need to install drivers to use it?

No. The card follows standard UVC (USB Video Class) and UAC (USB Audio Class) protocols. Simply plug it into your computer, and Windows or macOS will automatically recognize it as a USB Video/Audio device.

3. Can I input a 4K resolution signal into this card?

Yes. The HDMI port accepts video signals up to 4K (3840×2160 @ 30Hz). The MS2109 chip downscales and outputs the signal to 1080p @ 30Hz or 720p @ 60Hz over the USB 2.0 bus.

4. Which software works best with this capture card?

It is fully compatible with popular streaming and recording software including OBS Studio, Streamlabs, PotPlayer, VLC Media Player, Zoom, Microsoft Teams, and XSplit.

5. Why is there a slight delay in video output?

A minor latency (~50–100ms) is standard for USB 2.0 UVC video capture devices. For live streaming or recording, this delay is easily synchronized in software like OBS using an audio delay sync offset.

Quick OBS Studio Setup Guide

1 Connect Your Hardware

- Connect your source device (Camera, Laptop, Console, or Set-Top Box) to the capture card's **HDMI Input**.
- Plug the USB connector of the MS2109 Capture Card directly into an available USB 2.0 or 3.0 port on your computer.

2 Add Video Capture Device in OBS

- Open **OBS Studio**.
- In the **Sources** panel, click the  button and choose **Video Capture Device**.
- Name the source (e.g., *MS2109 Capture Card*) and click **OK**.
- From the **Device** dropdown, select **USB Video** (or *USB Camera / MS2109*).

3 Configure Resolution & Frame Rate

- Change **Resolution/FPS Type** from *Device Default* to **Custom**.
- Set **Resolution** to **1920x1080** (or **1280x720**).
- Set **FPS** to **30** (for 1080p) or **60** (for 720p).
- Set **Video Format** to **MJPEG** or **YUY2**.

4 Configure Audio Output

- Scroll down in the device properties window to **Audio Output Mode**.
- Check **Use custom audio device**.
- Select **USB Digital Audio** (or *USB Audio Device*) in the **Audio Device** dropdown.
- Click **OK** to save the settings.

5 Enable Audio Monitoring (To Hear Sound)

- Locate your capture card audio channel in the **Audio Mixer** section of OBS.
- Click the gear icon () and select **Advanced Audio Properties**.
- Change **Audio Monitoring** from *Monitor Off* to **Monitor and Output**.

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