

HDMI to USB 2.0 Video Capture Card

Product Specification, Architecture Guide & Practical Usage Manual

Model: VIDEO-CAPTURE-1080P-MS2109

Chipset: MacroSilicon MS2109

SKU: 4212

Product Overview & Authenticity Standard

The **Gadmei.LK MS2109 HDMI Video Capture Card** provides a transparent, genuine hardware solution for capturing high-definition video and audio. Built around the original **MacroSilicon MS2109 processor**, this device accepts video inputs up to **4K @ 30Hz** and delivers seamless **1080p @ 30fps** video output over USB 2.0 without requiring external drivers.



MacroSilicon MS2109 Hardware & SoC Architecture

TECHNICAL SPECIFICATIONS

Main Processor (SoC)	MacroSilicon MS2109 (USB 2.0 Capture Controller)
Hardware ID	USB\VID_534D&PID_2109&REV_2100
Host Connection	USB 2.0 Type-A Male Connector (Standard UVC / UAC protocol)
Video Input Interface	HDMI Type-A Female (Supports HDMI 1.4b protocol)
Maximum Input Resolution	Up to 3840 × 2160 @ 30Hz (4K Ultra HD downscaled to 1080p)
Maximum Output Resolution	1920 × 1080 @ 30Hz / 1280 × 720 @ 60Hz
Video Output Formats	MJPEG (Up to 1080p @ 30fps) YUY2 (Up to 1080p @ 5fps)
Audio Capture Support	L-PCM Audio (16-bit 48kHz stereo)
Operating Power & Driver	Bus-Powered (5V DC from USB port) Plug-and-Play Driverless
System Compatibility	Windows 7/8/10/11, macOS 10.9+, Android 5.0+, Linux Kernel 2.6+
Software Compatibility	OBS Studio, Streamlabs, vMix, Zoom, MS Teams, Google Meet, VLC

PRACTICAL SETUP & CONNECTION GUIDE

- Hardware Connection**
Plug the MS2109 capture card directly into a USB port on your desktop PC or laptop. Connect an HDMI cable from your video source (DSLR camera, gaming console, camcorder, or secondary PC) into the HDMI input port of the capture card.
- OBS Studio Configuration (Crucial Step)**
Open OBS Studio and add a new **Video Capture Device** source. Select **FHD Camera (or USB Video)**. Set **Resolution/FPS Type** to **Custom**, **Resolution** to **1920x1080**, and select **Video Format: MJPEG**.
- Audio Capture Setup**
In the Video Capture Device properties, scroll to the bottom and check **Use custom audio device**. Select **Digital Audio Interface (USB Digital Audio)** to pass clean HDMI audio into your stream or recording.
- Web Conferencing Setup (Zoom / Teams / Meet)**

Open your video app settings, navigate to Video settings, and select **FHD Camera** as your camera source. Select **USB Digital Audio** as your microphone/input source.

Pro Tip for Optimal Performance: Always set your capture software's video format to **MJPEG** when operating at 1080p resolution. Because USB 2.0 has a maximum bandwidth limit of 480 Mbps, uncompressed YUY2 format at 1080p is limited to 5fps, whereas MJPEG format enables smooth 30fps performance.

Hardware Verification Standard on Gadmei.lk

To ensure full transparency, Gadmei.lk verifies every capture units

Hardware IDs, genuine MS2109 units display **VID_534D&PID_2109** . This guarantees exact performance without misleading labels.

Gadmei.lk | Official Product Guide & Specification Sheet

Direct Web Link: <https://www.gadmei.lk/product/VIDEO-CAPTURE-1080P-MS2109/4212>

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