

Magewell USB Capture: setup & multi-unit

HDMI to USB capture with no drivers: the computer sees a camera and a sound device. Runs on USB power alone. Use one per source, and several on one computer for lecture capture or multi-camera streaming.

Choose the model

MODEL	INPUT · EXTRAS
HDMI Gen 2	HDMI 1.4a, up to 2048×1080 60fps · embedded audio · ≈2.5 W
HDMI Plus	HDMI 1.4 + loop-through · mic in, headphone out · ≈4.5 W
HDMI 4K Plus	HDMI 2.0 + loop-through · mic, headphones · USB 3.0 · ≈7 W
HDMI 4K Pro	HDMI 2.0 + loop-through · mic, headphones · USB-C 20 Gbps · ≈7.4 W

Connections

- **HDMI input** from camera, laptop or console (HDCP-protected sources are not captured)
- **Loop through** to a local monitor (Plus, 4K Plus, 4K Pro)
- **USB** to the computer: video, audio and power. Use the supplied cable
- **3.5 mm mic in** (microphone level only) and **headphone out** (Plus, 4K Plus, 4K Pro)
- Light: solid = locked · slow pulse = no signal · double blink = device fault

Several units on one computer

- Supported. Give each unit its **own USB 3.0 host controller** (check in Device Manager)
- Name units by serial number or a custom name (2–16 characters, no spaces); on Windows, remove the old entries and reconnect
- Short of bandwidth: the frame rate drops automatically
- Reduce other USB devices in use at the same time

Parts list

- ☐ One USB Capture per HDMI source
- ☐ A USB 3 port per unit (20 Gbps for 4K Pro at 4K60 4:4:4)
- ☐ Supplied USB cable · good HDMI cables
- ☐ Monitor for loop-through, if needed
- ☐ Microphone / headphones (Plus and Pro models)

4K Pro: what each USB port gives you

HOST PORT	CAPTURE
20 Gbps (USB 3.2 Gen 2×2)	4K60 4:4:4
10 Gbps	4K60 4:2:0
5 Gbps	1080p60 or 4K30 4:2:0

HDMI 4K Plus: USB 3.0 limits 4K NV12 capture to 30 fps, although the input accepts 4Kp60.

Software

- Driver-free on Windows, macOS, Linux and Chrome OS
- OBS: Video Capture Device → Resolution/FPS Type **Custom** → custom audio device **HDMI**
- Zoom, Teams, other meeting apps: choose it as camera and microphone
- Free **USB Capture Utility V3**: USB speed, SmartEDID, formats, resolutions, device name, firmware. Click **Save to Device**

Common fixes

- Black screen: HDCP on the source
- Not found: light, reconnect, Windows camera privacy setting
- Low frame rate: check USB speed in the Utility, use USB 3, rear desktop ports
- No sound: select the Magewell audio device; on server editions of Windows, enable the audio service

Ideas to build on

- Lecture capture: camera + presenter slides on one PC
- Multi-camera streaming in OBS or vMix
- An HDMI source into a meeting-room PC (Zoom Rooms detects it as a content device)