MAGEWELL

USB Capture HDMI Plus Technical Specifications

Specifications are based on current hardware, firmware and software revisions, and are subject to change without notice.

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Input Features

- 297MHz HDMI receiver, max input & loop through video:
    - 4096x2160 30fps 4:4:4/4:2:2
    - 4096x2160 60fps 4:2:0
- Custom EDID
- Input RGB/YUV 4:4:4 8/10/12-bit, YUY 4:2:2 12-bit, YUV 4:2:0 8/10/12-bit
- Up to 8-channel 24-bit HDMI-embedded audio at 192kHz
- 2-channel IEC60958 audio streams via 3.5mm microphone interface
- HDMI interfaces: HDMI 1.4, DVI-D

Process and Capture Features

- Video processing pipelines with ~160M pixels/s processing bandwidth
- Capture videos up to 2048x2160, frame rates up to 120fps. Outputs include (actual capture frame rate can be limited by the USB bandwidth and internal working frequency.):
    - 1920x1080p 23.98/24/25/29.97/30/50/59.94/60
    - 1280x720p 23.98/24/25/29.97/30/50/59.94/60/100/119.88/120
    - 720x576p25
    - 720x480p30
- Output YUYV/UYVY/RGB24/RGB32 videos
- Support video cropping, up/down scaling, de-interlacing, aspect ratio conversion, color format conversion, frame rate conversion, flip and mirror
- Output audio of HDMI signal or hosting machine (the computer) via 3.5 mm headphone jack
- Up to 2-channel IEC60958 audio streams

Included Software

- USB Capture Utility enables users to easily check and set the capture-related parameters, upgrade firmware of the capture device and export info needed for troubleshooting

SDK & APIs

- The MWCapture SDK provides functions including signal status extraction, capture configuration and real-time audio & video capture, etc
- Windows DirectShow/Wave API/DirectSound/WASAPI
- Linux V4L2/ALSA
- macOS AVCaptureSession/AudioUnit

Output Interface

- USB 3.0
    - compatible with USB 2.0
    - compatible with USB 3.1 Gen 1

Compatible Software

- Zoom Rooms
- Microsoft Teams
- Skype for Business

- Google Hangouts
- GoToMeeting
- Gstreamer
- VLC
- OBS Studio
- XSplit
- QuickTime Player
- Any other DirectShow/V4L2/AVCaptureSession based encoding or streaming software

Recommended OS

- Windows 7/8/8.1/10/11/Server 2008/Server 2008 R2/Server 2012/Server 2016 (x86 & x64) and above
- Linux x86, x64 & ARM architecture, with 2.6.35 and above
- Mac OS X 10.9/macOS 10.12 and above
- Chrome OS

LED Indicator

- Status LEDs indicate the working state of the device:
    - Pulsing slowly: input signal unlocked
    - On: input signal locked
    - Double blinks: memory abnormal or FPGA configuration failed
    - Off: firmware or power supply abnormal

Form Factor

- 3.86 inch (L) x 2.24 inch (W) x 0.67 inch (H) (98.1mm x 56.8mm x 17mm)

Accessories

- 1 × USB 3.0 cable (63cm)

Power Consumption

- 5V max current: ~900 mA
- Max power consumption: ~4.5 W

Working Environment

- Operating temperature: 0 to 45 deg C
- Storage temperature: -20 to 70 deg C
- Relative Humidity: 5% to 90% non-condensing