MAGEWELL

USB Fusion Technical Specifications

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

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Video Input

- HDMI input
  - Port: 2x HDMI 1.4 Type-A port (HDMI 1 / HDMI 2)
  - Resolution/frame rate: up to 1920x1080p, 60fps
  - Color depth: 8-bit
  - Color sampling: RGB 4:4:4, YCbCr 4:4:4, YCbCr 4:2:2
- USB input
  - Port: 1x USB 3.0 Type-A port (WEB CAMERA 3)
  - Resolution/frame rate: up to 1920x1080p, 60fps
  - Codec: YUYV, H.264, MJPEG, YU12, UYUV, NV12
- Video/image file input
  - Resolution: up to 4K resolution
  - Codec: H.264, HEVC (H.265)
  - Format: MOV/MP4/MKV video files, JPEG/PNG/BMP image files

Audio Input

- 1x 3.5mm jack: line in port
  - Format: 2-channel, 48 KHz, 16-bit
- 1x 3.5mm jack: headset port
  - Format: 2-channel, 48 KHz, 16-bit
  - Standard: CTIA

- Audio from HDMI 1 port: 2-channel, 48 KHz, 16-bit

- Audio from HDMI 2 port: 2-channel, 48 KHz, 16-bit

- Audio from WEB CAMERA 3 port: 2-channel (The audio is disabled by default, and can be enabled on Web UI.)

- Audio embedded in video files

- Audio file: MP3, M4A, WAV

Video Output

- USB OUT
  - Port: 1x USB 3.0 Type-C port
  - Resolution: 1920x1080, 1280x720, 640x480
  - Frame rate: 60fps, 30fps, 15fps
  - Color sampling: 8-bit YUYV 4:2:2 / NV12 4:2:0 / ARGB
- HDMI OUT
  - Port: 1x HDMI 1.4 Type-A port
  - Output image: HDMI 1, HDMI 2, or PROGRAM image
  - Output resolution: configurable

Audio Output

- 1x 3.5mm jack: headset port
  - Format: 2-channel, 48 KHz, 16-bit

- Standard: CTIA
- Audio output via WEB CAMERA 3 port: 2-channel (The audio is disabled by default, and can be enabled on Web UI.)
- Audio output via USB OUT port: 2-channel, 48 KHz, 16-bit
- Audio output via HDMI OUT port: 2-channel, 48 KHz, 16-bit

Video Processing & Production

- HDMI input
  - Video/audio signal data: auto extracted
  - Color space/quantization range: calibration supported
  - De-interlacing: Bob, motion adaptive, motion compensated
  - EDID: changeable
- USB input
  - Codec: configurable
  - Resolution/frame rate: configurable
- Frame rate/color space conversion: auto
- Source switching: auto, manual
- Scene compositing: picture in picture, side by side
- Scene editing: crop, mirror, scale, rotate, and more
- Annotation: pens, shapes, text, and more
- Presentation: creation and management supported

Audio Processing & Production

- Resampling: auto
- Audio de-embedding and embedding: auto
- Volume control: supported for audio output and each audio input
- Gain: supported

Recording and Screenshot

- Recording format: H.264 + MP4
- Encoding format for recording: up to 1080p60, configurable
- Screenshot format: JPEG
- Storage space: 32 GB

Network

- Ethernet: 1x RJ45 port, 10/100/1000 Mbps Base-T
- Wi-Fi network: IEEE 802.11 a/b/g/n/ac/ax, Station mode and AP mode supported
- USB network
  - Port: USB OUT
  - OS version: Windows 10 19H1 and later, macOS 10.12 and later, Linux
- IP address: DHCP-assigned, static
- DNS server: Auto or manual

Provided Software

- USB Fusion App: create, edit and control presentations
  - OS version: iOS 12 and later, Android 7.0 and later
- Web UI: configure and manage the device and presentations

Compatible Software

- Skype, Zoom, Microsoft Teams
- Other UVC/UAC compliant, DirectShow/V4L2/AVFoundation compatible software

Compatible OS

- Windows: Windows 7 and later, Server 2008 and later (x86 & x64)
- Linux: Linux system with kernel 2.6.35 or later (x86, x64 & ARM)
- Mac: OS X 10.9 and later, macOS 10.12 and later

Buttons

- Switch and composite sources

LED Indicators

- Power/Wi-Fi/HDMI 1/HDMI 2/Web Camera 3 indicators
  - On: connected/signal locked
  - Off: not connected/signal not locked
- Line-in/headset indicators
  - On: connected
  - Pulsing: not connected

Power

- Power port: 2.1mm x 5.5mm jack
- Power input: 12V/3A
- Max. power usage: 21.3W

Dimensions

- 186mm x 101.2mm x 30mm

Accessories

- 1x Power adapter (international)
- 1x USB 3.0 cable

Working Environment

- Operating temperature: 0 to 40 deg C
- Storage temperature: –20 to 70 deg C
- Relative Humidity: 5% to 90% non-condensing