MAGEWELL

Ultra Stream SDI Technical Specifications

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

Revised on 22/12/2023

Input Features

- Max input & loop-through signal: 2048x1080 60fps
- Supported SDI inputs include:
  - 2048x1080p/2048x1080i/1920x1080p/1920x1080i 23.98/24/25/29.97/30/47.95/48/50/59.94/60
  - 1280x720p 25/29.97/30/50/59.94/60
  - 720x576 25p/50i (PAL SD)
  - 720x480 29.97p/59.94i (NTSC SD)
- 8/10/12-bit color
- Support 16-Channel SDI embedded audio
- Input audio from 3.5mm microphone
- SD/HD/3G BNC input & loopthrough
- SD (ST 259)/HD (ST 292)/3Ga (ST 425)/3Gb (ST 425)/3Gb-DL (ST 425)/3Gb-DS (ST 425) standards

Encoding Features

- Dual-stream encoding: main stream and sub stream
- Max bitrate:
  - Main Stream - 8Mbps
  - Sub Stream - 2Mbps
- Supported resolutions:
  - HD: 1920x1080, 1600x1200, 1600x900, 1440x1080, 1440x900, 1280x1024, 1280x960, 1280x800, 1280x720, 1024x768
  - SD: 960x540, 800x600, 768x576, 720x576, 720x540, 640x480, 640x360, 480x360, 480x270
- Supported frame rates: 60/59.94/50/30/29.97/25/24/15/10/5fps
- H.264/H.265(HEVC) video encoders
- Encoding 2-channel AAC at 48kHz, 16-bit
- Supported audio bitrates: 256/192/128/96/64/48/32/16 kbps
- Extracting audio from SDI signal and output through 3.5mm headphone
- Encoding videos after de-interlacing

Streaming Features

- Natively support streaming to Facebook, Twitch and YouTube
- Supported streaming protocols including RTSP/RTMP/RTMPS
- Up to 2 streaming sessions simultaneously

Recording Features

- Recording to a USB flash drive, internal SD storage and paired mobile device simultaneously
- When recording to a USB Flash Drive
  - support auto-recording, normal recording
  - recording as MP4 or MOV files
  - Recording duration can be 5/10/30/40/50/60/90/120 min
  - Downloading recorded videos via WebUI
- When recording to internal SD storage (32GB)
  - support auto-recording, loop-styled or normal recording
  - recording as MP4 or MOV files
  - Recording duration can be 5/10/30/40/50/60/90/120 min
  - uploading recorded videos to a specified FTP server (FTP over TLS is supported), your Dropbox and Google Drive via WebUI
  - Downloading recorded videos via WebUI
- When recording to paired mobile device
  - recording as MP4 files
  - taking still image snapshots during recording

- timer recording at 15s, 30s, 1min, 2min, 5min

Configuration Management

- Register with 2 Control Hub platforms
- Remote control via Application, WebUI and Control Hub
- Provide comprehensive information regarding the system information of device and working status in real-time
- Configure parameters of volume and color, input and output signals, stream profiles, no signal image, the Ethernet and Wi-Fi connection, as well as date and time
- Update firmware
- WebUI supports IE/Edge/Firefox/Chrome/Safari/Opera web browsers
- Provide HTTP APIs

Network

- Wired Ethernet network: 10/100/1000Mbps
- Wi-Fi 802.11 a/b/g/n/ac
- 3G/4G USB mobile broadband Modem (not included)
- Bluetooth 4.0 BLE

LED Indicators

- Indicate the state of the input signal, Ethernet Network, Wi-Fi, USB flash drive
- Indicate the working state of the device: startup, recording, streaming, updating

Power Supply and Consumption

- DC 5V/2A
- Max power consumption: ~7.2 W

Form Factor

- 94.20mm x 94.20mm x 22.30mm

Accessories

- AC adapter

Working Environment

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