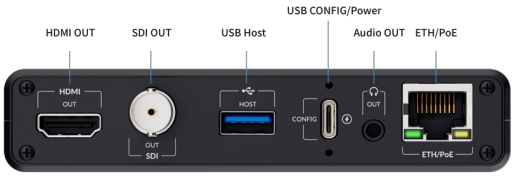
Pro Convert IP to AIO 4K

Converts up to four IP streams into one 4Kp60 HDMI and SDI output

SKU: 644000000





Product Overview

Pro Convert IP to AIO 4K is a standalone decoder that converts up to four IP streams into one 4Kp60 HDMI and SDI output in various layouts including Multiview. The device is compatible with mainstream formats and protocols, including H.264/H.265, NDI®, as well as SRT, RTMP, RTSP, HLS, MPEG-TS, Zixi, and RIST. It also supports remote centralized management via Magewell Control Hub and Zixi Zen Master. With this product, users can easily integrate 4K network streams into existing infrastructures, making it ideal for video production or distribution in broadcast and Pro AV.

Key Features

- Decodes one 4Kp60 IP stream or up to four HD IP streams for a multiview output
- Outputs one 4Kp60 video signal simultaneously via HDMI and SDI interfaces
- Supports the Zixi protocol, with remote centralized management via Zixi Zen Master
- Supports the RIST protocol, configurable for Simple Profile or Main Profile
- Supports HDR PQ/HLG formats
- Supports closed captions compliant with CEA–608 and CEA–708 standards

Packing List

- 1x Pro Convert IP to AIO 4K (PN: 64400)
- 1x USB Type C to Type C cable (PN: ELE00114)
- 1x USB Type C to Type A cable (PN: ELE00066)
- 1x Universal power adapter (PN: ELE00125)
- 1x Fishtail Bracket (PN: STR00211)
- 1x Bracket Fastener (PN: PAR10040)
- 2x M4*12 Black Screws (PN: MECO0067)
- 2x M4 Black Nuts (PN: MECO0068)
- 1x Quick Start Guide

Technical Specifications

Revised on 10/27/2026

Decoding Features

- Support multiple output modes for decoding of different protocol signals
  - Single View
    - Number of decoded channels: 1
    - Supported protocols: NDI High Bandwidth, NDI HX2, NDI HX3, MPEG-TS over RTP/UDP/SRT/RIST, RTMP, RTSP, HLS, HTTP, and ZIXI
    - Formats**: H.264, HEVC(H.265), SpeedHQ, MPEG2
    - Resolution: Up to 4096x2160p60
  - Picture-in-Picture
    - Number of decoded channels: 2

        - Supported protocols: NDI High Bandwidth*, NDI HX2, NDI HX3, MPEG-TS over RTP/UDP/SRT/RIST, RTMP, RTSP, HLS, HTTP, and ZIXI
        - Formats**: H.264, HEVC(H.265), SpeedHQ, MPEG2*
        - Resolution: Up to 1920x1080p60
        - *Only one NDI High Bandwidth or one MPEG2 format video signal can be decoded
    - Quad View
        - Number of decoded channels: 4
        - Supported protocols: NDI HX2, NDI HX3, MPEG-TS over RTP/UDP/SRT/RIST, RTMP, RTSP, HLS, HTTP, and ZIXI
        - Formats**: H.264, HEVC(H.265)
        - Resolution: Up to 1920x1080p60

    **H.264 supports 4:2:0 8/10-bit, and 4:2:2 8-bit; HEVC(H.265) supports 4:2:0 8/10-bit

- Support decoding AAC, MP3, AC3, Opus, and G.711 audio formats
- Support NDI 6.3

HDMI Output Features

- Maximum output: 4096x2160 60fps 4:4:4 8-bit, or 4096x2160 60fps 4:2:2 12-bit
- Commonly supported output formats include:
    - 4096×2160p 23.98/24/25/29.97/30/50/59.94/60 256:135
    - 3840×2160p 23.98/24/25/29.97/30/50/59.94/60 16:9
    - 1920×1080p 24/25/29.97/30/50/59.94/60 16:9
    - 1920×1080i 50/59.94/60 16:9
    - 1280×720p 23.98/24/25/29.97/30/50/59.94/60 16:9
    - 720×576i 50 16:9/4:3
    - 720×480i 59.94 16:9/4:3
- Color space: BT.601/BT.709/BT.2020
- Support HDR PQ/HLG
- Audio output: 48/96KHz 8-channel
- HDMI interface: HDMI 2.0

SDI Output Features

- Maximum output: 4096x2160 60fps 4:2:2 10-bit
- Commonly supported output formats include:
    - 4096×2160p 23.98/24/25/29.97/30/50/59.94/60 256:135
    - 3840×2160p 23.98/24/25/29.97/30/50/59.94/60 16:9
    - 1920×1080p 24/25/29.97/30/59.94/60 16:9
    - 1920×1080i 50/59.94/60 16:9
    - 1280×720p 23.98/24/25/29.97/30/50/59.94/60 16:9
    - 720×576i 50 16:9/4:3
    - 720×480i 59.94 16:9/4:3
- Output YUV BT.601/709/2020 signals
- Audio output: 48KHz 8-channel
- SD/HD/3G/6G/12G-SDI BNC output interface
- Support SD (ST 259)/HD (ST 292)/3Ga (ST 425)/3Gb (ST 425)/3Gb-DL (ST 425)/3Gb-DS (ST 425)/6G (ST 2081)/12G (ST 2082) standards
- Support Closed Caption compliant with CEA–608 or CEA–708 embedded CEA–608 standards
- Output HDR (PQ / HLG) through ANC metadata
- Output 12G-SDI signals up to 55m, 6G-SDI signals up to 75m, and 3G-SDI signals up to 130m

UVC/UAC Output Features

- Max output UVC: 1080p60 YUY2/NV12. Supported output formats include (Actual capture format may be limited by the operating system, USB bandwidth, and capture software used.):
    - 1920x1080p/1368x768p/1280x1024p/1280x720p/720x640p/720x480p/640x480p 60/59.94/50/48/40/30/29.97/25/24/20/15
- Max output UVC: 1080p30 MJPEG. Supported output formats include (Actual capture format may be limited by the operating system, USB bandwidth, and capture software used.):
    - 1920x1080p/1368x768p/1280x1024p/1280x720p/720x640p/720x480p/640x480p 30/29.97/25/24/20/15
- UAC: 2-channel, 16-bit, 48KHz

Configuration Management

- Support registration with Control Hub and Zixi ZEN Master for remote centralized management

- Provide WebUI tools
- Provide comprehensive information regarding the device and decoded signals in real-time
- Support preview of output images and PTZ control
- Configure audio and video signal decoding and output parameters, including OSD, deinterlacing, video format, audio gain, sample rate, etc.
- Support firmware upgrade
- Support Ping test, security settings, configuration files import and export, network connection configuration, etc.
- Support USB NET
- Support Edge/Firefox/Chrome/Safari/Opera web browsers
- Support HTTP APIs

On-board Setting Button

- Rotary encoder button:
  - Rotate: Switch options
  - Press: Bring up settings menu, enter current option, or confirm current parameter

Network Interface

- 10/100/1000Mbps Ethernet port
- Support IEEE 802.3at PoE+

USB Interface

- USB3.0 Type C
  - 12V 20W power supply
  - USB NET
- USB3.0 Type A
  - Support connecting external keyboard and mouse for settings modification

Audio Interface

- 3.5mm LINE OUT

LED Indicators

- Power indicator (PWR)
  - Solid: Power connected
  - Off: No power connected
- Decoding status indicator (SIG)
  - Solid blue: All selected sources in single/multiple decoding are decoding normally
  - Solid red: All selected sources in single/multiple decoding are decoding abnormally
  - Solid green: Both normal and abnormal decoding conditions exist in multiple decoding
  - Off: No sources selected in single/multiple decoding
- Tally light
  - Live (PGM): Red light indicates NDI signal source is live
  - Preview (PVW): Green light indicates NDI signal source is in preview

Dimensions

- 4.72″ (L) x 3.12″ (W) x 0.96″ (H)

Mounting Holes

- Diameter: Φ6.5mm mounting holes

Power Consumption

- Maximum current for 12V power supply: ~1.26 A
- Maximum power consumption: ~15.1 W

Operating Environment

- Operating temperature: 0 to 40 °C
- Storage temperature: –20 to 70 °C
- Relative humidity: 5% to 90% (non-condensing)
- Operating altitude: Up to 3,000 m