



# E3 4K Multi-interface Video Encoder

A new generation of Video encoder

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## Descriptions

Kiloview E3 is a new generation of video encoder which with new features of video input and loop through with HDMI up to 4K P30 and 3G-SDI up to 1080 P60, encoding both HDMI and 3G-SDI video by H.265 and H.264 simultaneously or either of the sources or a mixed video from the both video sources for either live production, post production, remote transmission, live streaming or recording in different industries. It supports streaming to 16 destinations with adjustable bit-rate up to 100Mbps simultaneously.

## Applications



## Advantages

### Flexible formats selection

- H.265 encoding, support NDI HX3 encoding transmission
- Saving more than 50% of bandwidth

### One for all

- For broad applications, E3 supports a complete range of streaming protocols including NDI HX2/NDI HX3/SRT/RTMP/RTMPS/HLS/WHIP/TS over UDP/RTP/RTSP/Onvif. It can be used for live production with NDI HX, remote production with SRT, live streaming with RTMP or HLS, or any transmission with all different protocols.

### Powerful streaming capabilities

- The E3 input can be up to 4Kp30 from the HDMI port, and up to 1080p60 from the SDI port
- E3 can go live up to 8 different platforms simultaneously by output in both mainstream (up to 8 channels in 1080p) with adjustable bit-rate, max bit-rate up to 120Mbps

### Powerful Audio performance

- Multi-channel Audio encoding supported
- Support multiple Audio formats including AAC and G.711
- Support 4 channel embedded Audio encoding of SDI inputs and 4 of HDMI inputs
- Audio de-embedding, channel selection, alternate channel and Audio output mapping, best for efficient production

### Built-in LCD screen and touch button

- With the screen you can easily check the connectivity, IP address, CPU, memory, resolution, temperature and tally status in real-time

### Reliable recording and streaming

- All inputs can be recorded in .MOV or .MP4 via 3 USB ports or NAS, E3 can stream and record simultaneously

## Product Parameters

| Model                  | E3  |
|------------------------|---|
| video resolution       | HDMI input & loop out:<br>3840 × 2160p @ 30 fps<br>1920 × 1080p @ 23.98 / 24 / 25 / 29.97 / 30 / 50 / 59.94 / 60 fps<br>1920 × 1080i @ 50 / 59.94 / 60 fps<br>1280 × 720p @ 29.97 / 30 / 50 / 59.94 / 60 fps<br>720 × 576i @ 50 fps (PAL SD)<br>720 × 480i @ 59.94 fps (NTSC SD)<br>SDI input & loop-out:<br>1920 × 1080p @ 23.98 / 24 / 25 / 29.97 / 30 / 50 / 59.94 / 60 fps<br>1920 × 1080i @ 50 / 59.94 / 60 fps<br>1280 × 720p @ 25 / 29.97 / 30 / 50 / 59.94 / 60 fps<br>720 × 576i @ 50 fps (PAL SD)<br>720 × 480i @ 59.94 fps (NTSC SD)<br>USB Input<br>1920 × 1080p @ 24 / 25 / 30 / 50 / 60 fps<br>1280 × 720p @ 30 / 50 / 60 fps |
| Video Encoding         | H.264 (AVC): Baseline / Main / High Profile, Level 5.1<br>H.265 (HEVC): Main Profile, Level 5.0<br>MJPEG  |
| Streaming Protocols    | NDI HX2/NDI HX3/SRT/RTMP/ RTMPS/HLS/TS over UDP/RTSP  |
| PTZ Control            | Supported (Via USB-to-RS-232 / RS-485 / RS-422 adapters, or IP-based camera control protocols)  |
| Video Input            | 1 × 3G-SDI (SMPTE 424M), backward compatible with HD-SDI (SMPTE 292M) and SD-SDI (SMPTE 259M)<br>1 × HDMI 1.4b<br>1 × USB-C or 1 × USB-A  |
| Video Output           | Loop-through 1× 3G-SDI SMPTE 424M compatible with HD-SDI SMPTE 292M and SD-SDI SMPTE 259M<br>Loop-through 1× HDMI 1.4b  |
| Audio Inputs           | 4-channel embedded SDI audio<br>4-channel embedded HDMI audio<br>1× 3.5mm Line In 2-channel audio<br>2-channel embedded USB audio   |
| USB Interfaces         | 2× USB 2.0 Type-C front panel<br>1× USB 2.0 Type-A rear panel   |
| Display and Indicators | 1.14-inch LCD color display with capacitive touch keys  |
| Network Interface      | 1 × 10 100 1000BASE-T Ethernet RJ45 supporting PoE IEEE 802.3af Class 3   |

|                       |  |
|-----------------------|--|
| DHCP                  | Supported  |
| Management            | Web-based management or centralized management via KiloLink Server Pro |
| Power Consumption     | 6W   |
| Power Supply          | DC 12V 1A input  |
| Dimensions            | 140 × 100 × 28 mm  |
| Weight                | 400 g net weight excluding accessories and packaging                   |
| Operating Temperature | -20 °C to 45 °C storage temperature -40 °C to 60 °C                    |