E3
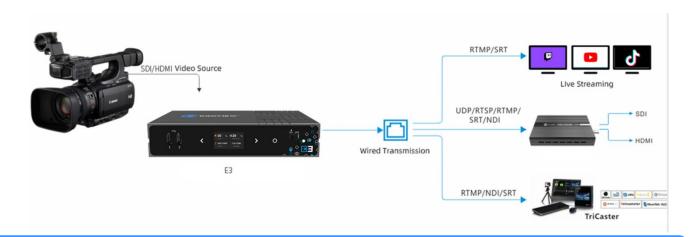
Dual-channel 4K HDMI & 3G-SDI HEVC Encoder

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|HX3/NDI|HX2/SRT/RTMP/RTMPS/HLS/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 16 different platforms simultaneously by output in both mainstream (up to 8 channels in 1080p) and substream (up to 8 channels in 720p) with adjustable bit-rate, max bit-rate up to 100Mbps

Powerful Audio performance

●Multi-channel Audio encoding supported

●Support multiple Audio formats including AAC, MPEG-4, MPEG-3, MPEG-2, Opus and G.711

●Support 8 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 portsor NAS, E3 can stream and record simultaneously

Model	E3
Video input	1x3G-SDI(SMPTE 424M), compatible with HD-SDI(SMPTE 292M) and SD-SDI(SMPTE 259M)；1× HDMI 1.4b
Video output	Loop out: 1x3G-SDI, compatible with HD-SDI and SD-SDI; 1x HDMI 1.4b
Audio input	8 channel of SDI embedded*, 4 channel of HDMI embedded*, 1x 3.5mm Line in
Display	1.14″ LCD display and touch buttons
Encoding formats	H.264: baseline, main, high profile, level 5.1; H.265: main profile, level 5.0
Stream protocols	NDI | HX2, NDI | HX3, SRT, RTMP, RTMPS, HLS, TS over UDP/RTP/RTSP, Onvif (Extensible for SIP/GB-T2818)
Input video resolution	Support in HDMI input & loop out: 840×2160p 30fps 1920×1080p 23.98/24/25/29.97/30/50/59.94/60fps 1920×1080i 50/59.94/60fps 1280×720p 29.97/30/50/59.94/60fps 720×576i 50fps (PAL SD) 720×480i 59.94fps (NTSC SD) Supported in SDI input&loop-out： 1920×1080p 23.98/24/25/29.97/30/50/59.94/60fps 1920×1080i 50/59.94/60fps 1280×720p 25/29.97/30/50/59.94/60fps 720×576i 50fps (PAL SD) 720×480i 59.94fps (NTSC SD)
Intercom	Yes
PTZ control	Yes
Network	1x 10M/100M/1000M RJ45 (PoE supported 802.3af class 3)
USB	2x USB 2.0 Type-C 1x USB 2.0 Type-A

Parameters

Management	Web RTC/ KiloLink Server
Power supply	DC 12V/1A

Note: *: The feature of 8-channel embedded audio encoding of SDI inputs and 4-channel embedded audio encoding of HDMI inputs will be supported in the later stage.