

# Ultra Encode Family



The Ultra Encode family of live media encoders offers systems integrators, streaming professionals and OEM partners a powerful range of flexible, reliable and cost-effective encoding solutions for applications including live streaming, AV over IP, remote contribution, IP production and workflows and much more.

# Ultra Encode Family Comparison Chart

| Function                                                            | Ultra Encode HDMI/SDI (Rev B)                                                               | Ultra Encode HDMI/SDI Plus                                                                  | Ultra Encode AIO                                                                            |
|---------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| Input & loopthrough interfaces                                      | HDMI (Ultra Encode HDMI) or SDI (Ultra Encode SDI)                                          | HDMI (Ultra Encode HDMI Plus) or SDI (Ultra Encode SDI Plus)                                | HDMI and SDI (encode 1 input or combine both into 1 output)                                 |
| Max encoding resolution & bitrate (excluding NDI® HX)               | Main stream: 2048x1080p60 16Mbps<br>Sub stream: 1080p60 16Mbps                              | Main stream: 4Kp30 32Mbps<br>Sub stream: 1080p60 32Mbps                                     | Main stream: 4Kp30 32Mbps<br>Sub stream: 1080p60 32Mbps                                     |
| Embedded input audio channels supported                             | 8 (Ultra Encode HDMI)<br>16 (Ultra Encode SDI)                                              | 8 (Ultra Encode HDMI Plus)<br>16 (Ultra Encode SDI Plus)                                    | 8-Channel HDMI embedded audio<br>16-Channel SDI embedded audio                              |
| Audio encoding channels                                             | 2                                                                                           | 8                                                                                           | 8                                                                                           |
| Output audio streams                                                | 1                                                                                           | 8                                                                                           | 8                                                                                           |
| Encoding Formats                                                    | H.264, H.265                                                                                | H.264, H.265                                                                                | H.264, H.265                                                                                |
| Streaming Protocols                                                 | RTMP, RTMPS, SRT (Caller or Listener),<br>HLS Pull, RTSP,<br>TS over UDP & RTP,<br>TVU ISSP | RTMP, RTMPS, SRT (Caller or Listener),<br>HLS Pull, RTSP,<br>TS over UDP & RTP,<br>TVU ISSP | RTMP, RTMPS, SRT (Caller or Listener),<br>HLS Pull, RTSP,<br>TS over UDP & RTP,<br>TVU ISSP |
| Streaming Presets and Integrations                                  | YouTube via RTMP,<br>Facebook Live, Twitch                                                  | YouTube via RTMP or HLS,<br>Facebook Live, Twitch,<br>Wowza over RTMP or SRT                | YouTube via RTMP or HLS,<br>Facebook Live, Twitch,<br>Wowza over RTMP or SRT                |
| NDI® Support                                                        | NDI® HX2                                                                                    | NDI® HX2, NDI® HX3                                                                          | NDI® HX2, NDI® HX3                                                                          |
| Simultaneous streaming outputs (*limit 1 output when using NDI® HX) | 6 (using same streaming protocol)                                                           | 6 (multiple streaming protocols)                                                            | 6 (multiple streaming protocols)                                                            |
| Recording                                                           | ×                                                                                           | Record to internal storage,<br>external USB drive or NAS                                    | Record to SD card,<br>external USB drive or NAS                                             |
| Upload of recordings to FTP,<br>Google Drive or DropBox             | ×                                                                                           | ✓                                                                                           | ✓                                                                                           |
| Input video cropping and rotation                                   | ×                                                                                           | ✓                                                                                           | ✓                                                                                           |
| Side-by-Side 3D video encoding                                      | ×                                                                                           | ✓                                                                                           | ×                                                                                           |
| Power over Ethernet (PoE)                                           | ×                                                                                           | ✓                                                                                           | ✓                                                                                           |
| Tally lights                                                        | ×                                                                                           | ✓                                                                                           | ×                                                                                           |
| Rack mounting                                                       | 1RU rackmount shelf and<br>mounting kit (not included)                                      | 1RU rackmount shelf and mounting kit<br>(not included)                                      | Half-width 1RU with included<br>mounting hardware                                           |