

# Pro Convert Encoders & Decoders



The Pro Convert family of hardware converters enables users to easily and reliably bring AV signals into and out of AV-over-IP workflows using NewTek's popular NDI technology. Pro Convert decoders can also decode Internet streams including SRT, RTMP, RTSP, MPEG-TS over UDP/ RTP and HTTP. The devices support up to 4Kp60 encoding and decoding, and are compatible with a wide range of video/audio signals and baseband AV equipment.

# Comparison Chart of Pro Convert Encoders

| Models                               | HDMI 4K Plus   | HDMI Plus                 | HDMI TX                  | 12G SDI 4K Plus | SDI 4K Plus    | SDI Plus                 | SDI TX                   |
|--------------------------------------|----------------|---------------------------|--------------------------|-----------------|----------------|--------------------------|--------------------------|
| Video Input Interface                | HDMI           | HDMI                      | HDMI                     | 12G-SDI         | 6G-SDI         | 3G-SDI                   | 3G-SDI                   |
| Embedded Audio                       | ✓              | ✓                         | ✓                        | ✓               | ✓              | ✓                        | ✓                        |
| Input Signals up to                  | 4Kp60<br>4:4:4 | 4Kp30<br>4:4:4            | 2048x1200 60fps<br>4:4:4 | 4Kp60<br>4:4:4  | 4Kp30<br>4:4:4 | 2048x1080 60fps<br>4:4:4 | 2048x1080 60fps<br>4:4:4 |
| Loop-through Output                  | ✓              | ✓                         |                          | ✓               | ✓              | ✓                        |                          |
| Encodes NDI® High Bandwidth at up to | 4Kp60<br>4:2:2 | 2048x2160 120fps<br>4:2:2 | 2048x1200 60fps<br>4:2:2 | 4Kp60<br>4:2:2  | 4Kp30<br>4:2:2 | 2048x1080 60fps<br>4:2:2 | 2048x1080 60fps<br>4:2:2 |

# Comparison Chart of Pro Convert Decoders

| Models                        | IP to USB  | IP to HDMI   | for NDI® to HDMI   | for NDI® to HDMI 4K | for NDI® to AIO | for NDI® to SDI |
|-------------------------------|--|--|--|---------------------|-----------------|-----------------|
| Video Output Interface        | USB (UVC)  | HDMI   | HDMI   | HDMI                | HDMI, 3G-SDI    | 3G-SDI          |
| Max Output                    | 1920x1080 60fps<br>(YUY2/NV12)/1920x1080<br>30fps (MJPEG)            | 2560x1440 60fps  | 4096x2160 60fps<br>(integrated up-conversion<br>from HD sources) | 4096x2160 60fps     | 1920x1080 60fps | 1920x1080 60fps |
| Decodes streams up to         | 1920x1080 60fps  | 2560x1440 60fps  | 2560x1440 60fps  | 4096x2160 60fps     | 1920x1080 60fps | 1920x1080 60fps |
| NDI® Decoding                 | NDI® High Bandwidth, NDI® HX, NDI® HX2, NDI® HX3                     |  |  |                     |                 |                 |
| Other Supported Protocols     | SRT, RTSP, HTTP, HLS,<br>RTMP Pull/Push, and<br>MPEG-TS over UDP/RTP | SRT, RTSP, HTTP, HLS, RTMP Pull<br>/Push, MPEG-TS over UDP<br>/RTP, and ZIXI | SRT, RTSP, HTTP, HLS, RTMP Pull/Push, and MPEG-TS over UDP/RTP   |                     |                 |                 |
| Supported Compression Formats | H.264, H.265, SpeedHQ  | H.264, H.265, SpeedHQ, MPEG2   | H.264, H.265, SpeedHQ  |                     |                 |                 |