

NDI® Bridge – Key Information & Guidance

NDI Bridge is a revolutionary tool allowing users to treat the entire connected world your studio. We want to provide you with as much information and guidance as possible, to ensure you are getting the very best out this incredible tool.

- ✓ When testing NDI Bridge please ensure that your network connection has sufficient sustained network bandwidth to maintain the video streams that you wish to use with reasonable network jitter. You can use a tool like iPerf to test your connection speed.
- ✓ NDI Bridge supports all NDI features; Video, Alpha Channel, Multichannel Audio, Metadata, KVM, Tally, PTZ Support.
- ✓ One or more users can join an NDI Bridge connection, enabled by a single NDI Bridge Host.
- ✓ NDI Bridge makes it easy to access the Public IP/Port values that must be shared with clients wishing to join the Bridge.
- ✓ A single public IP address and port number is needed on the host side of a bridge connection. To run a host connection on a local network “port forwarding” might need to be enabled on your router.
- ✓ NDI Bridge can detect whether port forwarding is enabled on your network and also recover your public IP address which is often not the same as your local network IP address.
- ✓ NDI Bridge connections are secured using AES256 encryption. Each side needs the encryption key in order to share data over Bridge.
- ✓ NDI Bridge can use H.264 and HEVC compression.
- ✓ NDI Bridge takes advantage of improved NDI 5 audio support to achieve floating point precision of high channel counts over a WAN connection. This is not backwards compatible with NDI version 4 which will be unable to play audio in this format, there is a “compatibility mode” switch that supports version 4 although it is restricted to the capabilities of that version.
- ✓ Due to the resolution limitations of H.264 compression, it is only possible to use HD resolution with alpha channel or UHD without it. HEVC supports all reasonable resolutions with and without alpha.
- ✓ HEVC decoding might require a license that can be purchased from the Windows Store. Windows Store access might not be available on some cloud services.
- ✓ NDI bridge uses the GPU to perform encoding and decoding. A high-end GPU is not required, and it will work even with integrated graphics system. NDI Bridge will take advantage of multiple GPUs within a single system.
- ✓ The number of channels of that may be decoded in real-time is limited by the video encoding performance of your GPU.
- ✓ Some GPUs are limited to a low number of simultaneous encoders, these will not work well with NDI Bridge since they are unable to compress many channels of video at one time.
- ✓ Video and audio sources that are needed are transferred across Bridge, unused sources will take no bandwidth.
- ✓ NDI Bridge includes automatic jitter correction which can correct many line problems while minimizing the latency.