

VideoXLink is developed to take cutting edge IP technology to remote production, contribution and distribution. Our XLink protocol simplifies and secures the setup and configuration, so that no deep IT knowledge is needed. VideoXLink will maximize your investment on a daily basis as it offers total flexibility together with all VideoXLink systems to be full duplex and simultaneous encoding and decoding.

VideoXLink takes the latest IP technology to new levels in video contribution, distribution and remote production for broadcasters and professionals who need a minimal latency with the best picture quality. VideoXLink is designed for quick, secure and easy setup for connectivity and control over IP, all the while using standard common network infrastructures that are in place, today and in the future.

VideoXLink is available in 2, 4 or 8 channels

All systems are full duplex, the great benefit is that it generates a full flexible end-to-end workflow. We don't have any dedicated encoders or decoders, our X2, X4 Mini, X4 and X8 systems can run as encoders and decoders at the same time. The X4 Mini, X4 and X8 system have bidirectional SDI for encoder or decoder configuration.



Public internet and its challenges

Today, the most common networks are sitting behind NAT, "network address translation", with firewalls that cause a lot of problems for IP video systems. Ports need to be opened and forwarded in firewalls, and much time is spent on IT troubleshooting every time a new network needs to be used. VideoXLink is developed from ground up to simplify and secure these problems. The VideoXLink protocol manages and secures all encryption, load balancing, jitter, data, video and audio transmissions.

Quick and easy setup

VideoXLink is designed so that both the protocol and system architecture makes it very easy to use and requires almost no technical IT knowledge. There is almost a zero configuration for network connectivity, and the systems do not require a time-consuming configuration to establish a direct connection. There is no need for a special handling of ports on the firewall to the internet to be opened as long as the firewall supports full-cone NAT.

Cloud XLink

The included Cloud XLink service acts as a telephone directory to connect the XLink systems to each other. There's no need to know the systems public IP address, just connect the VideoXLink systems to the network and if they are connected to the internet, they will automatically find each other. If a direct link cannot be established between two systems, the data connection will be forwarded by the Cloud XLink nodes to the recipient.

All communications are encrypted between the different VideoXLink systems via the XLink protocol. When a transmitter is paired with a receiver for video, an XLink tunnel is created automatically and establishes a dedicated and isolated encrypted data connection. No manual configuration is needed as XLink manages all configurations for you.

XLink Data Trunk

In order to interconnect two or more production networks, we created the XLink Layer 2 Data Trunk. This is

a virtual switch between different VideoXLink systems for connecting production networks. No IP configurations are required as this works as a regular switch on Layer 2.

You select an available network port on the system when you create an XLink Layer 2 Data Trunk. Connect a network cable to your existing network and this network is now available on the other VideoXLink systems included in the XLink Layer 2 Data Trunk. The IP based systems connected to the VideoXLink on the other side will now get the IP from your production network from the DHCP server and everything works as it usually does in your production network.

Quick Specs:

- Designed for production and contribution.
- Uses standard low-cost public IP network with private or public internet.
- No need for dedicated black fiber.
- Full quality 10 bit 422 with extreme low latency, under 80ms glass to glass for 50p SDI and under 50ms for 50p NDI®.
- Up to 16 audio channels per encoder.
- H264, H265 and VC-5 "constant quality Intermediate Codec SMPTE ST 2073" for high quality.
- L2 data trunks between systems.
- Designed for live multi-camera video production.
- Synchronized multi channel encoder/decoder enables live production of multi-camera events over IP networks.
- NDI® - Network Device Interface from NewTek
The NDI® protocol from NewTek is included as a standard option.
With NDI® none of the SDI inputs or outputs need to be used. The video is transferred directly on the LAN connections in/out of the systems. We have full NDI® alpha support that enables distribution of remote graphic systems.
- Our X4 Mini, X4 and X8 system have two 10/25Gb SFP28 ports and are prepared for the 2110 and 2022-6 that are coming in a near future release as a license and software upgrade. This is built on the same 2110 and 2022-6 integration library that Grass Valley use in their iTX platform.

Remote multi-camera proof of concept

"SVT" is the Swedish public service television company with the widest range of productions of all TV companies in Sweden. The VideoXLink systems have been in production at SVT for remote multi-camera production since the summer of 2018.

Contribution proof of concept

NEP Sweden is Sweden's largest partner for outside broadcasting solutions and studios as well. Together with Discovery Networks, the "Svenska Superligan i Innebandy" is using the XLink as primary contribution between the arena and the NEP Sweden data center in Stockholm. The ultra-low latency solution is crucial, especially as the graphics for the games are being keyed on in Stockholm.