



## DIREKT LINK RACK. SEND HIGH QUALITY VIDEO OVER THE INTERNET AND OTHER IP NETWORKS

### STANDARD FUNCTIONS

- SRT and Bifrost™ Reliable Transport
- Up to 10-bit, 4:2:2, 4K UHD encoding
- Multiple outputs/destinations
- Constant bitrate in pre-configured encoding modes
- Adaptive encoding parameters automatically adjusts to available internet capacity
- Network bonding uses several internet connections for higher capacity and redundancy
- Scales input signal to encoding resolution of choice, interlaced and progressive.
- Easy to configure via display and keypad
- Create profiles for multiple destinations
- Peak Programme Meter for calibration of sound level
- Record to files by connecting a USB storage
- IDM (Intinor Direkt Management) system, for remote management and troubleshooting
- Management via IP2 (secondary RJ45)
- Download recorded files from the web interface
- Create your own encoding settings
- Test picture can be encoded and customized
- IPMI
- Stream synchronisation (NTP)
- SMPTE 2022-7 output support

### PRODUCT BUNDLES

Direkt link	rack 1x	rack 1x 4K	rack 2x	rack 4x	rack NDI
Inputs	2x 3G-SDI	1x 12G-SDI 1x 3G-SDI	2x 3G-SDI	4x 3G-SDI	2x NDI™
Software Encoders	1x	1x	2x	4x	1x
HDMI out for monitoring	Yes	Yes	Yes	Yes	Yes
Audio Channels	8x (16x option)	16x	8x (16x option)	8x (16x option)	16x
Bifrost™	Yes	Yes	Yes	Yes	Yes
SRT + RTP over SRT	Yes	Yes	Yes	Yes	Yes
RTMP/RTMPS	Yes	Yes	Yes	Yes	Yes
RTP+FEC	Yes	Yes	Yes	Yes	Option

### FORM FACTOR

#### rack

Direkt link are usually delivered in a 19" 1RU rack-compatible format with rear-side connections and a built-in power supply supporting 100–240V AC. The Direkt link can be upgraded to a 2RU-rack or Rack+.

#### 2U rack

The 2U 19"rack includes disk-bays and redundant power supply.

#### rack+

The 2U 19"rack includes disk-bays and redundant power supply and more powerful CPU for more I/O or higher quality encoding.



**MADE IN SWEDEN**

## OPTIONS

Direkt link is available in convenient product bundles, with additional tailor-made solutions available upon request.

### INTERCOM

With 4-wire talkback, the Direkt receiver can connect to other Direkt units for audio communication with short delay.

### SDI CAPABILITIES

The Direkt link is available with 2x or 4x 3G-SDI inputs, with the 4x model also supporting 1x 12G-SDI. All SDI inputs can be configured as outputs when needed. For additional input requirements, contact us to discuss suitable solutions.

### ENCODING

The built-in encoder supports H.264 and/or H.265/HEVC using configurable encoding modes, supporting 4:2:0 and 4:2:2 chroma subsampling at 8-bit or 10-bit depth.

### EXTRA ENCODER

Direkt links can be upgraded with additional software encoders.

### RETURN VIDEO

Return video is available on Direkt links through an additional software option, with HDMI, NDI or SDI output.

### INTERNAL HARD DRIVE

Direkt link can be equipped with an internal hard disk or a RAID system with multiple disks to record files. Only available with Rack+ or 2RU rack option

### FTP AUTO UPLOAD

The Direkt link automatically uploads the recorded file/s on preset FTP server after completed live broadcast.

### REDUNDANT PSU

Redundant PSU is available as an option for the 1RU form factor and is standard in the 2RU form factor.

### VPN

With VPN you can create a virtual network between your control room and remote locations, control PTZ cameras and more.

## TECHNICAL SPECIFICATION

Digital in SDI embedded	SMPTE 259M, SMPTE 272M PAL, NTSC 0-8 audio channels
Resolutions SDI-in	PAL & NTSC 720p 25–60 fps (incl. 29.97/59.94) 1080i 25–30 fps (incl. 29.97) 1080p 23.98–60 fps (incl. 24/25/29.97/30/50/59.94) 2160p (12G compatible devices) 25–60 fps (incl. 29.97/59.94)
Digital video out (up to 10-bit 4:2:2)	H.264/MPEG4 AVC video ISO/IEC 14496-10 Baseline, Main, High / 10 / 4:2:2 HEVC/H.265 video ISO/IEC 23008-2 Main / 10 / 4:2:2 10
Digital in NDI™ (high-bandwidth and HX)	Can input and re-distribute NDI™ as MPEG-TS
Digital audio out	MPEG1 audio layer 2 (ISO/IEC 11172-3) AAC (ISO/IEC 14496-3:2005) MAIN
Transport	MPEG2-TS over IP (ISO/IEC 13818-1) UDP and TCP RTP (RFC 3550,2250) FEC (Pro-MPEG COP#3, SMPTE ST 2022-2:2007) Bifrost™ Reliable Transport SRT and RTP+SRT
Interface out	2 Ethernet 10/100/1000, RJ45 Extra RJ45 via external USB-LAN
3G/4G/5G	External USB modem or Heimdall
Hard disk for archiving	External USB2.0 / USB3.0
Size rack (without removable rack brackets)	425 x 380 x 45 (w x d x h) Fits in 19" 1U-rack
Size rack 1u dual PSU	450 x 450 x 45 (w x d x h) Fits in 19" 1U-rack
Size rack+ / 2u option	440 x 450 x 90" (w x d x h) Fits in 19" 2U-rack
Weight approximately	5200g (rack) 7700g (rack 1u dual PSU) 13300 (rack+)
Power consumption	Max 130W (rack), Max 250W (rack+)