



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

### STANDARD FUNCTIONS

- Multiple outputs/destinations
- Constant bitrate in pre-configured encoding modes
- Adaptive encoding parameters for automatic handling of the capacity of Internet connection
- Network bonding uses several Internet connections for higher capacity and redundancy
- Scales input signal to encoding resolution of choice
- Easy to configure via display and keypad
- Can be controlled via web interface over network
- Create profiles for multiple destinations
- Peak Programme Meter for calibration of sound level
- Record to files by connecting a USB storage
- Download recorded files from web interface
- ISS for statistics, supervision and troubleshooting
- Backup and upgrade via web interface or ISS
- Send to a number of different types of receivers
- Create your own encoding settings
- Test picture can be encoded and customized
- Management via IP2 (secondary network interface)
- IPMI
- Bifrost™ Reliable Transport
- Stream synchronisation (NTP)

### FUNCTIONS FOR WEB TV

- Send video using RTMP(s)
- Supports multiple resolutions and frame rates
- Record files in .flv-format

### FUNCTIONS FOR BROADCAST

- Send streams using UDP for shortest possible delay
- Interlaced video and anamorphic resolutions
- COP#3 FEC – Send to compatible receivers

### DIFFERENT MODELS

Intinor	300-series (webTV)	400-series (broadcast)	NDI
Direkt link	Rack	Rack	Rack
Inputs	2xSDI	2xSDI	2x NDI
Audio channels	8	8	16
Built in mixer	Yes	Yes	Yes
WebTV	Yes	Yes	Yes
Broadcast	-	Yes	Option
Redundant power supply	Option	Option	Option
BIFROST™	Yes	Yes	Yes
RTP+FEC	-	Yes	Option
HDMI out for monitoring	Yes	Yes	Yes
Rack +	Option	Option	Option

### DIFFERENT FORMATS

#### RACK (STANDARD)

Direkt link are usually delivered in a format which can be installed in a 19" rack with all connections on the rear side. Power supply is built in and 100 – 240V AC is fed using an ordinary power cord.

#### 2RU / RACK+ (OPTION)

Direkt link can be upgraded to a 19" 2U-rack with redundant power supply. Rack+ includes a more powerful CPU for higher performance.



## OPTIONS

Direkt link is primarily customized using options. Other customer tailored solutions are made on order

### SDI INPUTS

The Direkt link can be upgraded with up to 12x 3g-SDI inputs.

### 4-WIRE TALKBACK

By using 4-wire talkback, Direkt link can connect to other Direkt units for audio communication with short delay. The option gives two or more full duplex mono channels, for example control room and studio return.

### RETURN VIDEO

All Direkt links can have return video (HDMI or NDI)

### EXTRA ENCODER

Direkt link can encode the input signal to one or multiple other encoding modes. For example if one want to record in higher quality or send in multiple qualities.

### INTERNAL HARD DISK

Direkt link which is often used for recording video can be equipped with internal hard disk or a RAID system with multiple disks. Only available with Rack+ or 2ru rack option

### FTP AUTO UPLOAD

Automatically uploads the recorded file/s on preset FTP server after completed live broadcast.

### SRT – SECURE RELIABLE TRANSPORT

SRT is an open source video transport protocol.

### RIST

RIST is an open source video transport protocol.

### H.265

HEVC/H.265 video (ISO/IEC 23008-2)

### 2U RACK

2RU 19"rack, disk-bays and redundant power supply.

### RACK+

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

## TECHNICAL SPEC.

Digital in SDI embedded	SMPTE 259M, SMPTE 272M PAL, NTSC 0-8 audio channels
Digital in HDSDI embedded 3GSDI	SMPTE 292M, SMPTE 299M 720p/50, 720p/59,94, 720p/60, 1080p/23,98, 1080p/24, 1080p/50, 1080p/60, 1080i/25, 1080i/29.97, 1080i/30 0-8 audio channels
Digital video out H.264	H.264/MPEG4 AVC video (ISO/IEC 14496-10) BP@L3.0 - HiP@L5.1 (4:2:0 & 4:2:2)
Digital video out H.265	HEVC/H.265 video (ISO/IEC 23008-2)
Digital audio out	MPEG1 audio layer 2 (ISO/IEC 11172-3) AAC (ISO/IEC 14496-3:2005) MAIN
Transport out TCP	MPEG2-TS over IP (ISO/IEC 13818-1) adaptive bitrate
Transport out RTMP	RTMP + RTMPS
Transport out Network bonding, FEC, ARQ	BIFROST™ - Bifrost Reliable Transport Proprietary, adaptive bitrate and resolution
Transport out UDP (only on broadcast models)	MPEG2-TS overIP (ISO/IEC 13818-1) UDP and RTP (RFC 3550, RFC 2250)
Error corrections UDP (only on broadcast models)	FEC: Pro-MPEG COP #3, SMPTE ST 2022-1:2007
Interface out	2 Ethernet 10/100/1000, RJ45 Extra RJ45 via external USB-LAN
3G/4G	External USB modem or Heimdall
Hard disk for archiving	Extern 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+ / 2ru option	440 x 450 x 90" (w x d x h) Fits in 19" 2U-rack
Weight approximately	5200g (rack) 13300 (rack+)
Power consumption	Max 130W (rack), Max 250W (rack+)