DIREKT RECEIVER. RECEIVE MPEG-TRANSPORT STREAMS VIA THE INTERNET AND OUTPUT TO SDI

IMPORTANT CHARACTERISTICS
Except decoding video and audio, Direkt receiver as a IP link system gives the following advantages

SUPERVISION AND ALARMS
Incoming IP streams can be remotely managed and troubleshooted via IDM (Intinor Direkt Management).

REDUNDANCY & ERROR CORRECTION
Direkt receiver can receive IP streams that are both redundant and has error correction. (Bifrost™, FEC, TCP, SRT, RTP over SRT SMPTE 2022-7)

ADAPTIVE BITRATE
Direkt receiver automatically handles variable bitrate on incoming IP-streams.

NETWORK DEBONDING
Direkt receiver efficiently receives and assembles video transmitted across multiple IP streams.

ACCESS CONTROL
Direkt receiver allows for precise control over access to input streams on each corresponding input.

SDI OUTPUT
A standard Direkt receiver comes with two 3G-SDI outputs, but can be upgraded to support more.

FORM FACTOR
Direkt receivers are usually delivered in a 19” 1RU rack-compatible format with rear-side connections and a built-in power supply supporting 100–240V AC.

STANDARD FUNCTIONS
Direkt receiver provides the following functions:

- SRT and Bifrost™ Reliable Transport
- Up to 10-bit, 4:2:2, 4K UHD decoding, HDR HLG
- Easy to configure via display and keypad
- Peak Programme Meter (PPM) for calibration of sound level
- IDM (Intinor Direkt Management) system, for remote management and troubleshooting
- Management via IP2 (secondary network interface)
- Can receive video streams from a number of different units
- Black burst sync in
- Automatically detects whether streams are MPEG2, H.264 or H.265
- Select output format via web interface – PAL, NTSC, HD, 3G-SDI, 12G-SDI
- Automatically scales input streams into selected output format
- Test picture can be customized
- Stream synchronisation (NTP)
- SMPTE 2022-7 seamless protection switching
- SMPTE 302M (Dolby E) passthrough

MADE IN SWEDEN

OPTIONS

Direkt receiver 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. This option gives two or more full-duplex mono channels, e.g. control room and studio return.

MULTIPLE SDI OUTPUTS
Direkt receiver is available with 2x, 4x, or 8x 3G-SDI outputs. The 4x and 8x versions are compatible with 12G-SDI. For additional output requirements, contact us to discuss suitable solutions.

REDUNDANT PSU
Redundant PSU is available as an option in the 1RU format.

RIST
RIST is an open source video transport protocol.

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

CASE
All Direkt receivers can be delivered in custom cases.

TECHNICAL SPECIFICATION

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
SDI out standards SD, HD, 3G, 12G	SMPTE 259M, 272M, 292M, 302M 424M (A+B), 2082
Resolutions SDI-out	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 in (up to 10-bit 4:2:2)	MPEG2 video ISO/IEC 13818-2 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
Interface in/out	Ethernet 10/100/1000, RJ45
Interface management	Ethernet 10/100/1000, RJ45
Size 1RU (without removable rack brackets)	425 x 380 x 45 (b x d x h), Fits in 19” rack(1RU)
Size rack 1RU dual PSU	450 x 450 x 45 (w x d x h) Fits in 19” 1RU-rack
Weight approximately	5200g (rack) 7700g (rack 1RU dual PSU)