BLANKOM
an IRENIS brand ...setting signals

4K Decoder & IPTV Receiver with HDMI/SDI/VGA/CVBS-Out

h.265 and h.264 compatible Decoder & IP Receiver

- **Inputs: 1x UHD/HD/SD in h.264 or h.265 compatible streams like from our Encoders** (actually no MPEG2 support)
- **Outputs HDMI, CVBS, VGA and HD-SDI in parallel**
- **Stereo Audio embedded decoding of AAC and MP1L2, external Audio Output (3.5mm Stereo)**
- **UHD Resolution 2160p30, 1080p, 720p.... no interlaced**
- **IP Input: RTSP/RTP/UDP, UDP/RTP, HTTP, adaptive HLS, FLV, RTMP(s), SRT**
- **MPTS Input with Program selection for decoding**
- **Reception of Video Camera UHD/HD streams and other source content over LAN or WAN**
- **Inserting of Text, Logos and scrolling Text as Overlays**
- **Video-over IP applications (Signal distribution)**
- **Digital Signage applications**
- **Video conferencing, Camera streaming**
- **IPTV on LAN applications, Corporate IPTV for Broadcasters**
- **Monitoring up to 4 streams on one TV picture (4xMosaic)**
- **Remote management by an inbuilt Webserver-Interface**
- **4-Stream-picture Mosaic in HD or UHD selectable by Web-IF (Audio decoding from 1 of the 4 sources selectable)**

BLANKOM HDD-275 decoder serves the distribution of Full-HD and UHD TV/Video content through IP networks in digital quality.
The live Video can be received by this decoder as an IP stream and displays it on to standard TV sets.
Monitoring of 4 Streams in parallel on 1 TV set by a mosaic feature

BLANKOM HDD-275

IPTV Decoder is designed for TV signal reception in excellent quality over LAN and WAN.

The h.265 (HEVC) and h.264 compatible compression technology features low-latency and low bit rates for IPTV system reception. The high-efficient decoding chip saves bandwidth cost through all its resolution range.
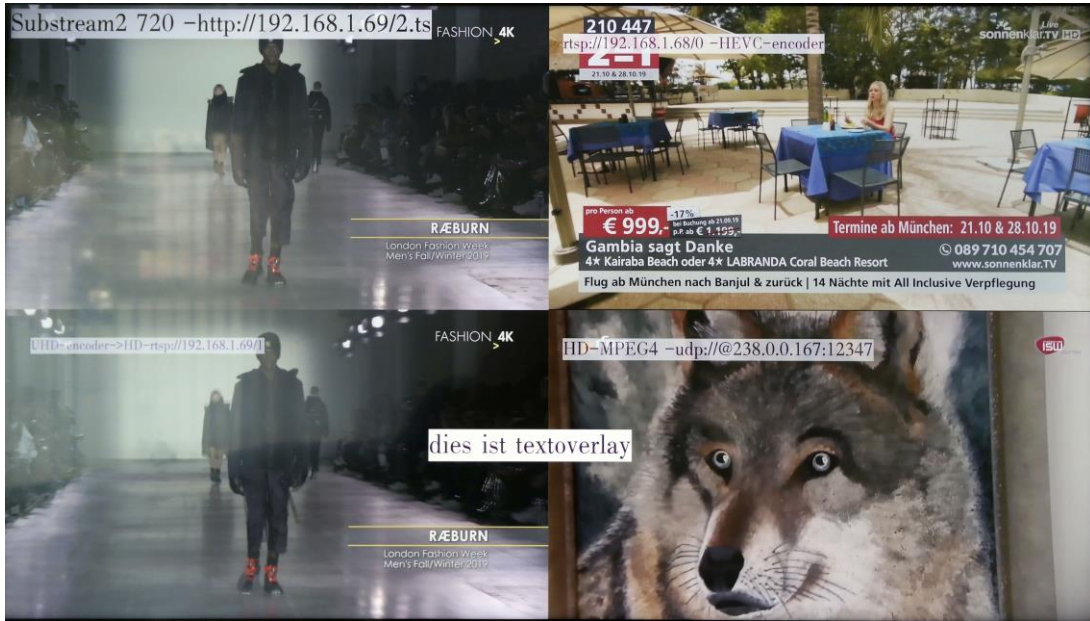
Reception of SD, HD and UHD TV channels through the IPTV/OTT network using state-of-art IP technology from almost any kind of video input.

Either 1 Stream in UHD or for Monitoring up to 4 streams on one TV output as Mosaic picture can be arranged.

Excellent video and audio quality. High reliability. Web-Interface.

No regular service and maintenance need during operation.

Application Example

Example output of 4 different encoded streams with Text overlays inserted by the encoders & the decoder

HDE-265 HD-HDMI encoder

SDE-265 HD-SDI encoder

HDE-275 4K Encoder

PC-Presentation
4K 30fps

HDE-4K5

Blue-Ray-Player

STB- to encode

HDE-275Q 2x4K + 2xHD- HDMI encoder

IPTV STB-4K source

TV Source-
Mediaplayer

ProCurve

Layer 2+/3 -Switch, opt. SFP-IN

HDD-275 IP Decoder

SDI

Multiple Display outputs

4K-TV

VGA

Digital Signage

HDD-275 IP Decoder

4x stream monitoring Mosaic

UHD-Screen

Technical Specifications:

Function	h.265 (HEVC compatible) and h.264 (MPEG4 compatible) Decoder and 4 pic Mosaic-viewer
SYSTEM	Embedded HiLinux System, stable and effective, 7 x 24h
INPUT	RJ45 GbEthernet up to 4 Streams (Mosaic), management by web browser, firmware upgrade by Web-IF
Protocol	Unicast: HTTP / adaptive HLS / FLV / RTSP/UDP / RTMP(s) / **SRT: push & passphrase** Multicast: UDP/RTP
Data Rates	100 kbps – 32 Mbps per stream
Resolution max:	2160p30, 1080p60, 720p and below
Video Decoder	h.265 (HEVC) or h.264 (AVC) in max. 4K@30fps CBR or VBR baseline /main /high profile
Audio Decoder	STEREO AAC/AAC+/AAC++/MP3/MP2/AC3 G711
Audio sample rates	8000/11250/22500/44100/48000Hz
OSD	4 Logo (bmp's with or w/o transparent colour) and Text Insertion as transparent overlays
Picture adjust	Brightness, Hue, Saturation, Contrast, Picture Crop, Rotating 0,90,180,270°
Profiles	H.264/AVC High/Main/Baseline Profile H.265/HEVC main profile MJPEG/JPEG baseline
Audio output	HDMI /HD-SDI embedded Audio (additional 2.5mm Stereo jack out)
HDMI-max out format	3840*2160P@30/1440P@30/1080P@60/1080I@60/1080P@50/1080I@50 1080P30/1080P25/720P60/720P50/576P50/480P60 fps
CVBS Output	PAL 720x576 & NTSC 720x480
HD-SDI	maximum output format = 1080p@60fps
HD-SDI & VGA-Out	1080P@60/1080I@60/1080P@50/1080I@50 1080P30/1080P25/720P60/720P50/576P50/480P60 fps
Maximum decoding Datarate's @ HDMI	1 Picture stream output: 4k@30fps @32mbps
Up to 4 Input streams for Mosaic picture:	1-1080p@60fps bitrate can be up to 32mbps 2-1080p@60fps@10mbps max. for each stream 3-1080p@50fps@10mbps max. for each stream 4-1080p@30fps@20mbps max. for each stream
Relative Humidity	5% to 90% non-condensing
Storage temperature	-20° to 80°C
Operating temperature	-10° to 70°C
Power supply	12V DC, 1A
Dimensions	180x150x25mm
Weight	0,5 kg / incl. Package and PSU: 0,7kg
Consumption	5-10W

Companion products:

- **HDE-275/Q 4x-Encoder 4K/HDMI** compatible **to IP Streaming**
- **HDE-264/265 and SDE-265 boxed encoder series**
- **EMU-Encoder Streamer series**
- **IGA-4400 / IGA-824 IP Stream Gateways/Converters**
- **BTR-6000 Transcoder**