

HD VIDEO ENCODER



h.265 and h.264 compatible encoder & IP streamer as boxed or 19" 1RU

- VGA input for encoding (Loop out)
- Stereo Audio external Input (3.5mm stereo) and Loop
- HD Resolution 1920x1200@60fps, 1080p & i encode in p, 720p, ...
- IP output: RTSP, RTMPs, UDP/RTP, HTTP, HLS, FLV, SRT, MJPG
- Distribution of VGA-Monitor or Video Camera and other sources content over LAN, WAN or Internet.
- Min. 2 simultaneous and independent Live stream broadcast encoder engines to multiple destinations
- Video-over IP applications (Studio signal distribution)
- IPTV/OTT applications
- Hospitality Environment (X-Ray-Monitor), Camera streaming
- IPTV on LAN applications, Corporate IPTV for Broadcasters
- HD and SD video encoding (incl. 1080p)

Complementary products:

- HDD-275 Decoder IP to 4K/HDMI/HD-SDI/VGA/CVBS outputs
- IPTV Set Top Box 6800+
- HDC-5004: IP UDP/RTP to 4 muxed adj. RF DVB-C Modulator
- HDC-5016: 512 IP to 16 DVB-C channels

BLANKOM VGA / SDE-(1)265 encoder serves the Distribution of SD and HD TV/video content through IP networks in digital quality. The live video can be received by Internet media server by TV sets with IPTV Set-Top Boxes, on PC has and tablets with VLC Player.

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VDE (VGA)

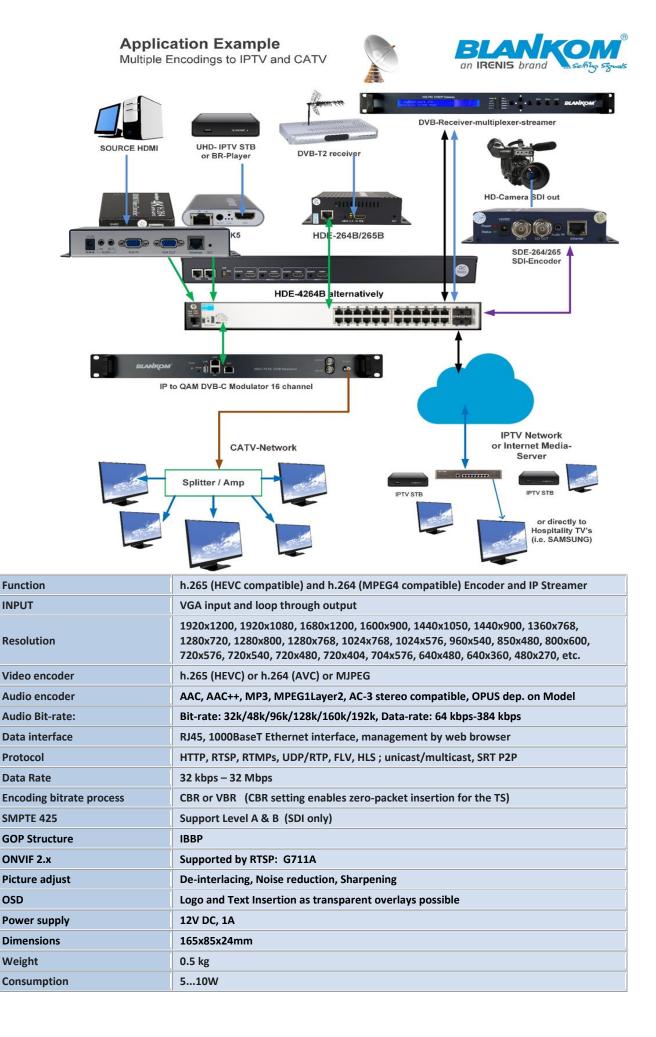
IPTV encoder is designed for TV signal distribution in excellent quality over LAN and INTERNET.

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The h.265 (HEVC) compatible compression technology features low-latency and low bit rates for IPTV/OTT systems. The high-efficient encoding chips saves bandwidth cost through all its resolution range.

Distribution of SD and HD TV channels through the IPTV/OTT network using state-of-art IP technology from almost any kind of video input.

Excellent video and audio quality. High reliability. No regular service and maintenance need during operation.





Quickstart Variant with VGA Inputs: VDE-265 (no 264 version available any more)



The Front-panel text gives you IN- and Loop-Output connections Audio and Video (VGA separately). Use the delivered 230VAC -> 12VDC PSU and do not use Voltage higher than that. Note: VGA does not have internal Audio like HDMI. Right: RESET Hole (internal button)= Restores factory settings by pressing 5-10 seconds



Rear: Status LEDs S= Signal Input,

E= Ethernet, P=Power status

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H.264 HDMI Video Encoder Model: HDE-264 Default IP: 192.168.1.168 Username & Password: admin

Sticker with default settings (MAC may be different)

Notes and Hints:

The Gigabit-Ethernet-port does not support PoE so please take care of not accidently using a PoE switch- you can damage the port and the unit will be not accessible anymore.

We recommend to use an IGMP-V2/3 protocol capable GBE- Switch to avoid flooding your network with unmanaged multicast streams. Also some consumer Internet routers do not like Multicasts (UDP/RTP) and might reboot periodically.

An Internet-connection is not necessary as long as you need to use NTP and does not have an own NTP server in your network.

Please assure that your HDMI –Output you like to encode is set to max. HD with 1080p60 or lower. Higher values will not work.

The embedded Linux system takes some seconds to fully boot. After the System-LED is on, you can connect your browser to it. We recommend Chrome, Opera, and Mozilla. For a preview Popup in the browser, a flash-player add-on need to be installed for the browser.

Sometimes it is helpful to reload the browser – page to get the changed settings and values because of different browser behaviours...

The RESET button will erase all your settings and the unit will be forced to start with factory defaults. Use a thin wire to pass the small hole and press the inside button by it for at least 5-10 seconds until the System LED will go off. The encoder would perform a restart than after releasing the button.

The Web-Interface lookalike may vary between different Versions but it is self-explaining.

Please select Analog Audio Input only if you need that:

| BLANKOM H.265 HEVC | HD Encoder System Platform 5.11 |
|---|---|
| | Audio encoding settings |
| Audio encoder | |
| Audio Inpu Samplerat Encode Bitrat | a: ANALOG ample rate v AAC v |
| Digital Volume Gai | a: 0 [-50~50] |

Different to SDI/HDMI:





HD Encoder System Platform 5.11

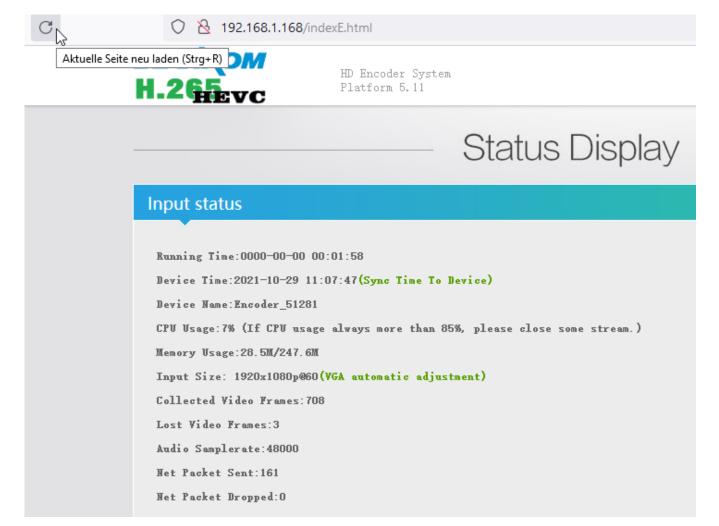
Status Display

Input status

Running Time:0000-00-00 00:00:48 Device Time:2021-10-29 11:06:37(Sync Time To Device) Device Name:Encoder_51281 CPV Usage:9% (If CPV usage always more than 85%, please close some stream.) Memory Usage:28.2M/247.6M Input Size: 1920x1080p@0(VGA automatic adjustment) Collected Video Frames:0 Lost Video Frames:0 Audio Samplerate:48000 Net Packet Sent:93 Net Packet Dropped:0

VGA resolution will be displayed with automatic

After changing Input, please reload the web-page several times to renew its values sshown:



The other menu parts are nearly identically.

Except: This is for HDMI – HDCP TV-Monitors only:

| Advanced | |
|--------------|---|
| | |
| Device Name: | Encoder_51281 |
| EDID: | 0.Default(1080P60) |
| Video Only: | 0.Default(1080P60) VS 1.1920x1080@60_DELL_U2414H |
| Audio Only: | 2.1920x1080@60_ITE 3.1920x1080@60_RGB |
| | |

So not taking effect on VGA or SDI Inputs



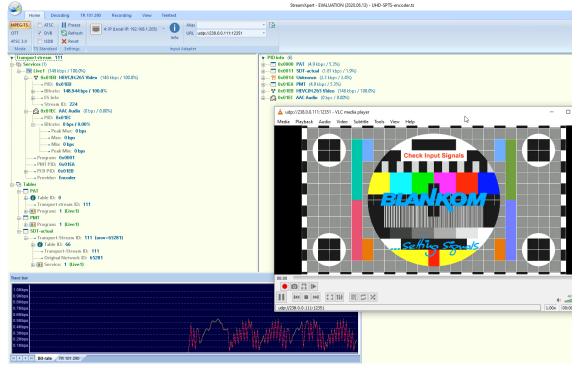
No-Signal Picture if no Input is detected:



The /0.jpg (or in secondary stream the /1.jpg

Will do a screen-snapshot to your browser - so no motion - just like a screenshot.

BTW: If no signal has been detected at the Input connector, the Test-picture will appear and the Stream output may 'pump' because the encoder check the input signal periodically – and in this periods', the output stream might fluctuate like:



Finally: To get more information about the deeper details of the encoder settings and configuration issues, please check some of the combined PDF – Manuals from our website or write us.

Contact: info@blankom.de

www.blankom.de