



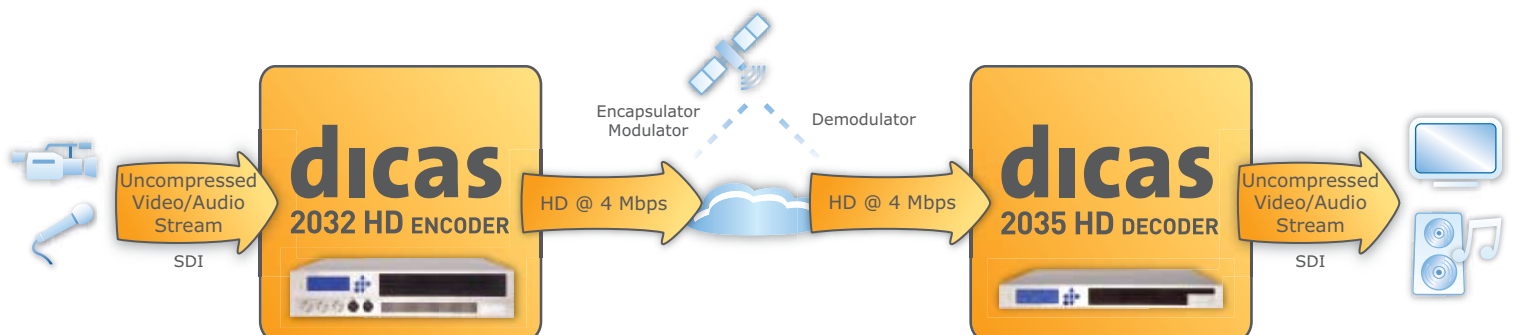
## dicas2035 HD DECODER

### MPEG-4 AVC/H.264 High Definition Decoder



The dicas2035 HD decoder is the complementing product to the HD encoders dicas2030, dicas2031 and dicas2032. This robust, error resilient high-performance 1-RU solution delivers unmatched results in any broadcast contribution and distribution environment supporting MPEG-4 AVC/H.264 (Baseline, Main and High Profile) on the video side as well as MPEG-4 AAC on the audio side.

With its dual Ethernet inputs this robust, error resilient high-performance decoder supports one video/audio stream via MPEG-2 TS or RTP as input. On the output the dicas2035 SD decoder delivers analogue or digital video/audio raw data.





## dicas2035 HD DECODER

### Connectors

#### Video Out

- Analog Component BNC (SMPTE 259M)
- Digital SD-SDI, BNC (SMPTE 259M)
- Digital HD-SDI, BNC (SMPTE 259M)
- HDMI (without HDCP) (optional)

#### Audio Out

- analog balanced (XLR)
- embedded SDI

#### Video/Audio In

- Ethernet (10/100/1000 BaseT) half/full duplex

### Video Input

- Number of streams: 1
- SDTV: NTSC (M), PAL (B, D, G, H, I, K, M and N)
- HDTV: 720p/60/59.94/50, 1080i and p/30/29.97/25/24

### Video Output

- Number of channels: 1
- SDTV: NTSC (M), PAL (B, D, G, H, I, K, M and N)
- HDTV: 720p/60/59.94/50, 1080i and p/30/29.97/25/24

### MPEG-4 AVC/H.264

- Baseline, Main and High Profile Levels 1, 1b, 2, 3, 4
- I-, P- and B-slices
- Intra Prediction all modes,
- Inter prediction all block sizes
- ¼ pixel motion estimation/compensation
- Progressive and interlaced coding (PAFF, MBAFF)
- De-Interlacing prefilter
- De-blocking filter
- CABAC/CAVLC
- 4x4 and 8x8 transform

### Coding Parameters

- Adjustable video bit rate 48 kbps - 20 Mbps
- Adjustable frame rate 5 - 60 fps
- Adjustable audio bit rate 16 - 384 kbps
- Adjustable audio sample rate 8 - 48 kHz
- Audio signal amplifying

### Video Processing

- Scene-cut detection
- Logo insertion
- Adaptive I-frame and B-frame insertion
- Adjustable key-frame period including I-frame only
- Adjustable and fixed GOP size
- Rate Control: capped variable bit rate
- Rate Control: variable bit rate (VBR)
- Rate Control: average bit rate (ABR)
- Adjustable video buffer size (VBV mode)
- Frame accurate time stamps

### Transport

- MPEG Transport Stream over UDP (pure IP)
- MPEG Transport Stream over RTP
- Direct Media over RTP/UDP
- RTP with configurable packet size
- RTMP (Flash) Sender (optional)
- Session management over RTSP or HTTP
- SDP file
- 2D forward error correction (Pro-MPEG CoP3v2)
- Multicast and Unicast over IP
- IPv4 support
- SAP

### Dimensions & Power

- Dimension: 436mm (19") × 411mm (16.2") × 45mm (W×D×H)
- Weight: 7.66 kg (16.89 lbs)
- Power Supply: 110-240 V
- Power Consumption: 200 W
- Dual Power Supply (200 W) (optional)
- Air flow: Front to back



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