



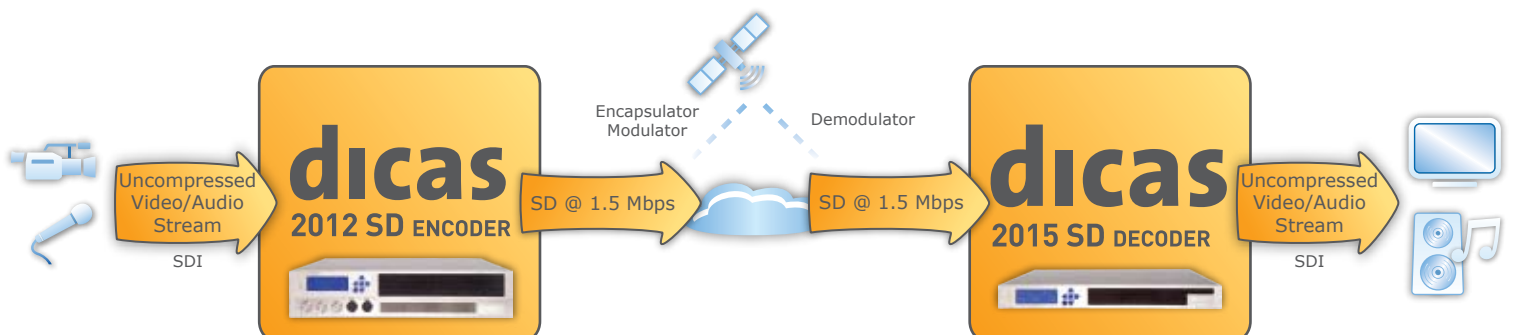
## dicas2015 SD DECODER

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



The dicas2015 SD decoder is the complementing product to the SD encoders dicas2010, dicas2011 and dicas2012. It delivers unmatched results in any broadcast contribution and distribution environment supporting MPEG-4 (Simple Profile, Advanced Simple Profile) and MPEG-4 AVC/H.264 (Baseline, Main and High Profile).

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 dicas2015 SD decoder delivers analogue or digital video/audio raw data.





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### Connectors

#### Video Out

- Analog Composite BNC (SMPTE 259M)
- Analog Component BNC (SMPTE 259M)
- Digital SD-SDI, BNC (SMPTE 259M)

#### Audio In/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)

### Video Output

- Number of channels: 1
- SDTV: NTSC (M), PAL (B, D, G, H, I, K, M and N)

### MPEG-4

- MPEG-4 Simple Profile (SP) levels 0 (SVPL0), 0b, 1-3
- MPEG-4 Advanced Simple Profile (ASP) levels 1-5
- I/P/B-VOP
- AC/DC Prediction
- 4-Motion Vector
- ¼ pixel estimation/compensation
- Error resilience tools (data partitioning, video packets)
- Interlaced coding

### 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

### Video Processing

- Scene-cut detection
- Logo insertion
- Adaptive I-frame and B-frame insertion
- Adjustable key-frame period including I-frame only
- Adjustable or 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

### Coding Parameters

- Adjustable video bit rate 48 kbps - 8 Mbps
- Adjustable frame rate 5 - 30 fps
- Adjustable audio bit rate 16 - 384 kbps
- Adjustable audio sample rate 8 - 48 kHz
- Audio signal amplifying

### 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