

## C109H

### H.264 HD Encoding Card



1 channel H.264 HD video encoding (supports YPbPr input)

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Input:

Video: 1 x YPbPr, BNC;  
1 x CVBS,  
(Same port with Y);  
1 x HD-SDI,  
(audio embedded )  
BNC;

Audio: 1 x Analog stereo  
(balanced);  
1 x AES/EBU  
(balanced)

- Video format: H.264/AVC 4:2:0 MP@Level 3.0 for D1, H.264/AVC 4:2:0 HP@Level 4.0 for HD
- Encoding Bit-Rate: 2-10Mb/s for D1  
4-20Mb/s for 1280x720x60p/59.94p/50p  
5-20Mb/s for 1440x1080x60i/59.94i/50i,  
6-20Mb/s for 1920x1080x60i/59.94i/50i
- Aspect ratio: 4:3, 16:9
- Entropy encoding: CABAC
- GOP structure: IBBP, IBP(1080i)

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- Audio Formats: MPEG-1 Layer II
  - Sampling frequency: 48K/44.1K/32K
  - Encoding Bit-Rate: 32Kb/s ~384Kb/s

## C110

### H.264 HD Encoding and Transcoding Card



2 channel H.264 HD video encoding or MPEG-2 to H.264 transcoding

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Input:

Video: 2 x HD-SDI, BNC

Audio: 2 x HD-SDI,  
(audio embedded)  
 2 x AES/EBU ,  
Phoenix socket  
(balanced)

- Video format: HD H.264 High Profile@Level 4.0  
SD H.264 Main Profile@Level 3.0

- Output resolution and frame rate:  
1920 × 1080 × 50i/59.94i/60i  
1440 × 1080 × 50i/59.94i/60i  
1280 × 720 × 50p/59.94p/60p  
720 × 576 × 50i  
720 × 480 × 59.94i

- Conversion of HD program to SD program
- Transcoding of 23.98 frame/s up to 60 field/s
- Aspect Ratio: 4:3/16:9
- Encoding code rate: 1Mb/s - 20Mb/s  
Advised HD code rate : 6 Mb/s - 20Mb/s  
Advised SD code rate: 1.5 Mb/s - 5Mb/s
- Rate control: CBR/VBR
- GOP structure: IBBP/IBP
- Entropy code: CABAC
- Pre-processing: de-interlacing, de noise, sharpening

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- MPEG-1 Audio Layer II
  - Sampling frequency: 48kHz/44.1kHz/32kHz
  - Sampling accuracy: 24-bit
  - Encoding rate: 32 - 384kb/s

## C130

### H.264/MPEG-2 HD Encoding Card



1 channel H.264/MPEG-2 HD/SD video encoding

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Input:

Video: 1 x HD-SDI, BNC  
1 x YPbPr, BNC  
1 x CVBS , BNC

Audio: 2 x HD-SDI,  
(audio embedded)  
 1 x AES/EBU ,  
Phoenix socket  
(balanced)  
1 x analog  
stereo audio  
(phoenix interface)

- Video format: H.264: Baseline, Main ,and High  
MPEG-2: Simple, Main ,and High

- Encoding level:  
H.264:  
1.0 ~1.3  
2.0~2.2  
3.0~3.2  
4.0~4.2  
5.0~5.1
- MPEG-2:  
High, Main
- Encoding resolution ratio:  
1920/1440/1280×1080  
1280/960×720  
720/704/640/544/528/352×576  
352×288  
352×240  
320×240