

# H.264 Hardware Compression DVR Card (8 Channel Audio/Video)

**Brand: HANGBANG**

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H.264 encoder cards in HB-18 series are based on H.264/A law compression standard and powerful DSP DM645 from TI. Video and audio can be kept entirely synchronous, video resolution supports CIF or Full D1 and frame ratio of video is adjustable continuously which can be up to 25frames/sec(PAL) or 30frames/sec(NTSC). Multiple boards can be installed on one PC and up to 32 channels encoding with max frame rate working together on one PC.

HB-18 series supports more than 64 channels real-time video preview. It provides full functions as required by DVR applications: such as encoding and playback, motion detection, OSD, video and audio preview, series ID number etc. All above functions do not need extra CPU resource of host PC.

## Video Specifications

Encoder Real time H.264 Base Profile (MPEG4 Part 10)  
Supports Constant Bit Rate (CBR) and Variable Bit Rate (VBR)  
Support up to 64 channels encoding at the same time on one PC  
Resolution CIF compression: 352x240 (NTSC), 352x288 (PAL)  
Video Bit Rate: 60kbit/sec to 2Mbit/sec (Variable Bit Rate)  
384kbit/sec to 2Mbit/sec (Constant Bit Rate)  
Frame Rate: 30 fps per channel (NTSC), 25 fps per channel (PAL)  
Real time preview, recording and playback  
Setup: Setup all parameters while encoding  
Video Filter: Hardware filter to de-interlace and reduce noise  
Video Input: 8 channels CVBS signal Composite video/BNC 1 Vp-p, 75Ω

## Audio Specifications

Encoder: G.729 Audio 8kbit/sec and PCM 64kbit/sec  
Audio Input: 8 channels audio input , 10K<sub>Ω</sub>, Vp-p=2.0V Line in

## Playback

Decoder: Support up to 16 channels playback by PC while recording  
Video Out: Supports video decoder card and display video on VGA or TV with up to 24 channels D1 or 96 channels CIF in same time  
Network: Playback and remote view by Media Player and IE

## Others

Motion Detection: Multi-area detection powered by hardware  
Detection by active area and sensitive priority  
Time Code: Add TT: MM: DD and HH: MM: SS: FF format data in video  
Logo: Add fixed picture and set mosaic area in video  
Video Masks: Provide video mosaic region for each channel  
Alarm: Video loss alarm  
Security: Each card has its unique serial number  
Power: Usageless than 1W for each channel

### Software Kit

Provide both DVR applications and SDK for full function(Capture, Video Display, OSD: Set YY: MM: DD: HH: MM: SS format data, mosaic area and logo position, Multi Channels playback, Control Play, pause, fast forward and step by frame, Filter Support: Windows Media Player and IE, Support TCP/UDP protocol and IE

