

# Spin Digital HEVC Media Player

HEVC/H.265 software media player for 4K-UHD, 8K-UHD, and beyond video with NGA audio, enabling next-generation applications in broadcast, immersive media, and large screen visualization.

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## Product Highlights

- HEVC decoding up to 16Kp60 on a single PC
  - Advanced renderer with SDI and GPU outputs
  - 8K HDR with HDMI 2.1 interface
  - Color conversion and tone mapping
  - TS-over-IP live streaming: UDP, RTP, SRT, RIST, Zixi
  - HTTP live streaming: HLS, DASH
  - Optimized for low-latency live streaming
  - Next Generation Audio (NGA): MPEG-H Audio
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## VIDEO DECODING

High-performance HEVC software decoder

Profiles: Main, Main 10, Range Extensions (HEVCv2)

Resolutions (pixels):

1920x1080 (1080p), 3840x2160 (4K), 7680x4320 (8K), 15360x8640 (16K)

Custom resolutions

Frame rates (fps): 23.98, 24, 25, 29.97, 30, 50, 59.94, 60, 100, 119.88, 120

Color formats: 4:2:0, 4:2:2, 4:4:4, RGB

Bit depths: 8-bit, 10-bit, 12-bit

## VIDEO RENDERING

High-performance render engine:

GPU rendering based on DirectX 12

CPU rendering for professional SDI output

Bit depths: 8-bit, 10-bit

Color spaces: BT.601, BT.709, DCI-P3, BT.2020

Transfer functions:

SDR: BT.1886 (BT.709), sRGB

HDR: HDR10 (ST2084), HLG (STD-B67)

Color conversion: color format, color space, color range, transfer function

Tone mapping: HDR to HDR/SDR

Flexible image overlays

Multi-device configurations: single large surface (tiled), clone, alternate

Rendering devices:

GPU: NVIDIA, AMD, Intel

3G-SDI: AJA Corvid 88

12G-SDI: AJA Kona 5, AJA Corvid 44 12G, Blackmagic DeckLink 8K Pro

8K and 16K playback over HDMI/DP:

8Kp60 (1 GPU): 1x HDMI 2.1, 2x DisplayPort 1.4, 4x DisplayPort 1.2

16Kp60 (4 GPUs): 16x DisplayPort 1.2, 4x HDMI 2.1

8K playback over 12G-SDI:

8Kp60: Two-Sample Interleave (2SI) and Square Division (SQD) modes

8Kp120: 2x 8Kp60 in alternate rendering mode

## AUDIO DECODING

Codecs: AAC, Opus, MPEG-H Audio

Channels: 2.0, 5.1, 7.1, 5.1.2, 5.1.4, 7.1.2, 7.1.4, 22.2, binaural

## AUDIO RENDERING

Windows audio (WASAPI)

ASIO

SDI: up to 4x 16 channels

## FILE INPUT FORMATS

ES, MP4, TS, MKV, HLS, DASH

## STREAMING FORMATS

Low-latency TS-over-IP: UDP, RTP, SRT, RIST, Zixi

HTTP: HLS, DASH

## RECOMMEND SYSTEMS FOR HIGH-END PLAYBACK

### 8K 60 Hz

Use case	Format	Bitrate	Platform
Distribution GPU output	8Kp60 4:2:0 10-bit	50 - 120 Mbps	CPU: Intel Core i9-13900K (8+16 cores) Memory: 16 GB (2x 8 GB, DDR5-5600) GPU: NVIDIA GeForce RTX 3060, or Intel Arc A770
Contribution SDI output	8Kp60 4:2:2 10-bit	200 - 250 Mbps	CPU: Intel Xeon Gold 6330N (28 cores) Memory: 64 GB (8x 8 GB, DDR4-2667) 12G-SDI: AJA Kona5, AJA Corvid 44 12G, or Blackmagic DeckLink 8K Pro
High fidelity	8Kp60 RGB 12-bit	500 - 600 Mbps	CPU: 2x Intel Xeon Silver 4316 (2x 20 cores) Memory: 128 GB (16x 8 GB, DDR4-2667) GPU: NVIDIA GeForce RTX 3060 (HDMI 2.1), or NVIDIA Quadro P4000 (4x HDMI 2.0)

### 8K 120 Hz

Use case	Format	Bitrate	Platform
High frame rate	8Kp120 4:2:0 10-bit	200 - 250 Mbps	CPU: 2x Intel Xeon Gold 5318N (2x 24 cores) Memory: 128GB (16x 8GB, DDR4-2667) 12G-SDI: 2x AJA Kona 5, 2x AJA Corvid 44, or 2x Blackmagic DeckLink 8K Pro

### 16K 60 Hz

Use case	Format	Bitrate	Platform
Very large screen display	16Kp60 4:2:0 10-bit	400 Mbps	CPU: 2x Intel Xeon Gold 6330 (2x 28 cores) Memory: 128GB (16x 8GB, DDR4-2933) GPU: 4x NVIDIA Quadro P4000 Sync: NVIDIA Quadro Sync II

## PACKAGE

Media player application

Reference applications:

Command-line HEVC player

Command-line HEVC decoder to YUV file

Product documentation



spin player  
hevc

## OPERATING SYSTEMS

Windows: Windows 10/11 64-bit:

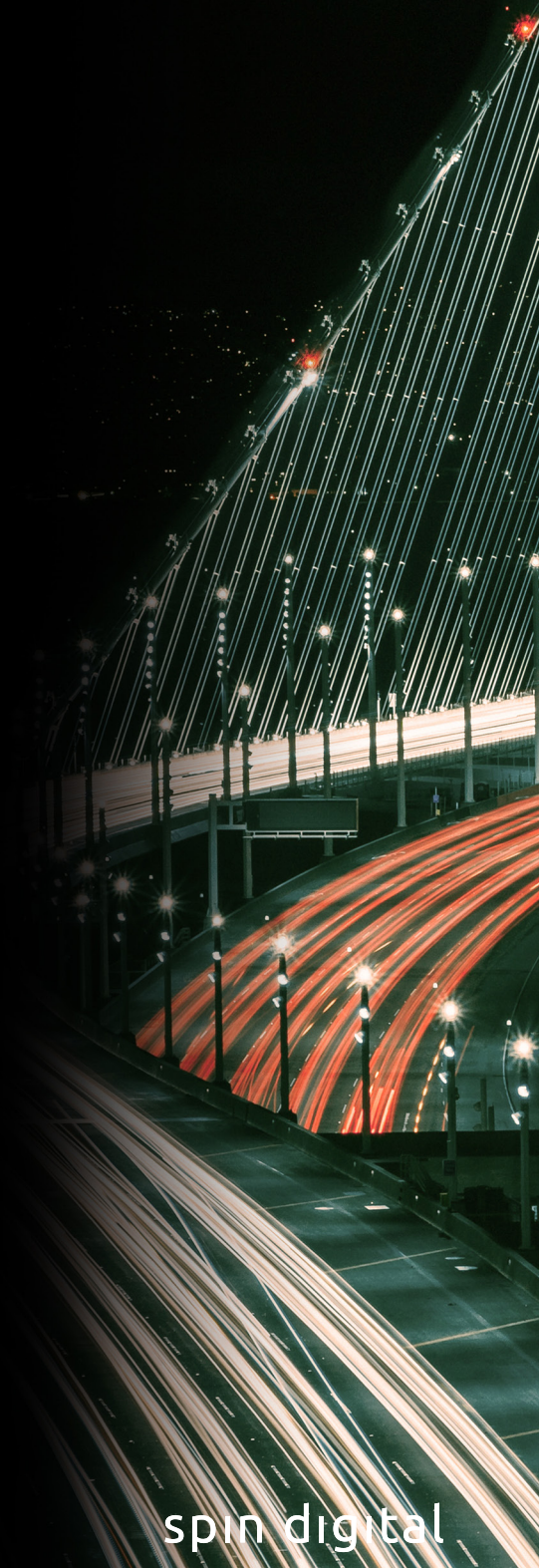
HEVC decoding

GPU and SDI rendering

Linux: Red Hat 8/9 and Ubuntu 20.04/22.04 (with X11 installed):

HEVC decoding

SDI rendering



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