

Spin Digital HEVC/H.265 software media player (Spin Player) enables ultra-high-quality video applications with 4K, 8K, and 16K resolution on commodity computing hardware.



spin player



HEVC/H.265 player for broadcast, immersive video projection, large screen visualization, virtual reality, and professional media.

Spin Digital HEVC/H.265 media player is ready for the next generation of high-quality video systems, providing support for Ultra HD (UHD), High Dynamic Range (HDR), High Frame Rate (HFR), Wide Color Gamut (WCG), and Virtual Reality (360° video).

Product Highlights

- Up to 16K playback on a single workstation
- Professional video formats: 4:2:2 and 4:4:4
- 10-bit, HDR, and WCG support
- Color conversion and tone mapping
- SDI and GPU output
- Support for HLS streaming
- Interactive 360° video playback
- Next generation audio: 22.2 surround sound

HEVC/H.265 Media Player Package

- **Spin Player:** Full-featured media player based on Media Player Classic BE
- **Spin Dec:** Command line HEVC/H.265 decoder and video renderer
- **Spin Render:** Command line raw video renderer

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SPIN DIGITAL MEDIA PLAYER

Support for the HEVC standard:

Main and Main 10 profiles - up to Level 6.2 High tier

Range Extensions (HEVCv2) profiles

ARIB STD-B32 version 3.9 (8K with 4 slices)

Tiles and wavefronts

High-performance software decoder

Resolutions/frame rates: 4Kp240, 8Kp120, 16Kp60

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

Bit depths:

Decoding: 8-, 10-, 12-bit

Rendering: 8-, 10-bit

Pixel formats: planar, semi-planar, packed, BC4 texture compression

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

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

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

Tone mapping: HDR to SDR conversion

Flexible image overlays

File formats: MP4, MPEG2-TS, MKV

Streaming formats: HLS

Multichannel audio: 5.1, 7.1, 22.2 with AAC codec

Rendering devices:

GPU: NVIDIA Quadro, AMD Radeon Pro

3G SDI: AJA Corvid 88

12G SDI: AJA Kona 5

8K playback over 12G SDI:

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

8Kp120: 2x 8Kp60 in alternate rendering mode

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

Interactive 360° video playback

RECOMMENDED PLATFORMS FOR 8K AND 16K PLAYBACK

OS: Windows 10 64-bit

Use case	Format	Bitrate	Platform
Entry level	8Kp60 4:2:0 10-bit	50 - 85 Mbps	CPU: Intel Core i9-9900K (8 cores) GPU: NVIDIA Quadro P2000 (BC4 format)
Distribution	8Kp60 4:2:0 10-bit	70 - 120 Mbps	CPU: Intel Core i9-9900X (10 cores), or AMD Ryzen 9 3900X (12 cores) GPU: NVIDIA Quadro P4000, or AMD Radeon Pro WX 7100
Contribution GPU output	8Kp60 4:2:2 10-bit	200 - 250 Mbps	CPU: Intel Core i9- 9940X (14 cores) GPU: NVIDIA Quadro P4000, or AMD Radeon Pro WX 7100
Contribution SDI output	8Kp60 4:2:2 10-bit	200 - 250 Mbps	CPU: Server: Intel Xeon Platinum 8260 (24 cores), or Workstation: Intel Xeon W-3265 (24 cores) 12G SDI: AJA Kona 5
High fidelity	8Kp60 RGB 12-bit	500 - 600 Mbps	CPU: 2x Intel Xeon Platinum 8260 (48 cores) GPU: NVIDIA Quadro P4000
Very large screen display	16Kp60 4:2:0 10-bit	400 Mbps	CPU: 2x Intel Xeon Platinum 8260 (48 cores) GPU: 4x NVIDIA Quadro P4000



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