

Spin Digital Raw Media Player

High-performance media player that enables fluid playback of uncompressed 4K, 8K and 16K videos using standard computing platforms.

Product Highlights

- Real-time uncompressed 8Kp120 playback on a single server
 - Real-time uncompressed 16Kp60 playback on a single server
 - Support for RGB and YUV formats
 - Support for extended range video up to 12-bit
 - Metadata storage in JSON files
 - Advanced renderer with SDI and GPU outputs
 - 8K HDR with HDMI 2.1 interface
 - Color conversion and tone mapping
 - Professional multi-channel audio
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INPUT VIDEO

Video formats: YUV-4:2:0, YUV-4:2:2, YUV-4:4:4, RGB, BC4

Resolutions (pixels): 7680x4320 (8K), 15360x8640 (16K), custom

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

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

Pixel formats: planar, semi-planar, packed

VIDEO RENDERING

High-performance render engine:

GPU rendering based on DirectX 12

CPU rendering for professional SDI output

Maximum playable data rates: 8Kp120 4:2:2 10-bit, 16Kp60 4:2:0 10-bit

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 (ST 2084), HLG (STD-B67)

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

Tone mapping: HDR to HDR/SDR

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 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 with alternate rendering mode in 2SI

INPUT AUDIO

Audio format: PCM

Channels: 2.0, 5.1, 7.1, 22.2


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AUDIO RENDERING

Windows audio (WASAPI)

ASIO

SDI: up to 4x 16 channels

RECOMMEND SYSTEMS FOR UNCOMPRESSED PLAYBACK


Use case	Format	Platform
Entry level 8K	8Kp60 4:2:0 10-bit	Compact PC GPU for rendering: NVIDIA RTX Geforce 3060, or Intel Arc A770 Maximum storage: 1x Internal M.2 SSD with PCIe-4 (2 TB / 8.9 min of 8Kp60)
Professional 8K	8Kp60/120 4:2:2 10-bit	Standard server SDI for rendering: 1x/2x AJA Corvid 44, or 1x/2x Blackmagic DeckLink 8K Pro Maximum storage: 4x U.2 NVMe SSDs PCIe-4 (120 TB / 6.7 hours of 8Kp60)
Ultimate 8K	8Kp60/120 4:2:2 10-bit	Storage-optimized server SDI for rendering: 1x/2x AJA Corvid 44, or 1x/2x Blackmagic DeckLink 8K Pro Maximum storage: 24x U.2 NVMe SSDs PCIe-4 (720 TB / 10 hours of 8Kp120)



PACKAGE

Media player application

Product documentation


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OPERATING SYSTEMS

Windows: Windows 10/11 64-bit:

GPU and SDI rendering

Linux: Red Hat 8/9, Ubuntu 20.04/22.04:

SDI rendering


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