

World's First 3-stream Uncompressed 4K60 Media Server

Written by Bob Snyder
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Austria's AV Stumpfl introduces the world's first and only triple-stream 4K uncompressed media server, **Wings Engine Raw**.

Using a single custom engineered RAID 10 system, Wings Engine Raw is capable of delivering **constant data stream of 3-channels of true 4K (4096 x 2304 pixels) uncompressed video content at 60fps plus up to 16 text and picture layers, and up to 24 uncompressed audio streams.**

The server removes the need to convert content into any intermediate codec format. Content can include native picture sequences such as TGA or TIFF and even instant PNG image format processing.

Wings Engine Raw is capable of processing and delivering video content at the full 4:4:4 color sampling ensuring picture perfect quality and colour accuracy for the most demanding of installation environments.

This data system not only features a massive data throughput but also features redundancy. For example, should one of the SSDs fail, the data rate and the system's functionality in general will not be impaired.

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Wings Engine Raw hosts the new **WingsRX™** render core engine which has been developed and optimized especially for premium picture quality applications. Its 64-bit program architecture and clever usage of SSE CPU instructions ensures unequaled decentralized processing power. **The software has been designed for a wide range of applications such as themed attractions, digital signage, trade shows, live events and full dome systems.**

Wings Engine Raw is complemented by AV Stumpfl's embedded operating system, Backup-Manager, features a dedicated EDID management as well the award-winning automatic camera based calibration system for soft-edge blending, warp and geometry mapping, all operable by time line control.

Wings Engine Raw is based on professional server technology derived from IT data center equipment. Inside the rack mount system is a Xeon CPU, redundant high performance power supply, 2x10 GBit LAN, server chipset, up to 8 3G-SDI live inputs and Displayport 1.2 and DVI-D output connectors.

With an established worldwide support network, AV Stumpfl has begun shipping Wings Engine Raw to projects worldwide including major product launches, cinematic, theme park and visitor attraction sites in Europe and the Middle East.

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