• SimView No. 1 – AI Video Compression All-in-One System

Up to 10-fold storage savings for video files

SimView No. 1 AI Video Compression All-in-One System is a dedicated compression device designed for high-definition video scenarios. Powered by AI intelligent compression technology, it achieves an average lossless compression ratio of over 10:1 for HD video—reducing compressed files to approximately one-tenth of their original size—without changing the frame rate, resolution, or video duration, losing feature points, or affecting subsequent AI-based video analysis. In environments with relatively limited dynamic activity, such as IDC server rooms, the average video compression ratio can exceed 20:1, significantly reducing storage costs and bandwidth consumption.



Product Specification

Form Factor	Standard 2U rackmount chassis
Compression Performance	Built on an SoC architecture with board-based compression. Each board supports real-time compression of up to 16 channels of 1080p video, 8 channels of 2K video, or 4 channels of 4K video.
	Supports video compression for both single-resolution devices and mixed-resolution device configurations.
Compression Card Slots	24 slots; supports up to 24 embedded video compression cards. Unused slots are available for future expansion.
	Compressed video maintains the original frame rate and resolution without loss of feature points.
Video Input Format	H.264/H.265
Video Output Format	H.264/H.265
Protocols	Supports integration with existing surveillance equipment through multiple protocols, including ONVIF, RTSP, GB28181, and proprietary SDKs.
Power Switch	Illuminated latching power switch: press once to power on the load; press again to disconnect it.
Status Indicators	Codec board status indicators: solid green indicates normal operation with no video processing; flashing green indicates normal operation during video processing; solid red indicates a codec board fault and requires prompt maintenance.
Network Ports	4 × Gigabit Ethernet ports; maximum data throughput of 4,000 Mbps.
Power Supply	2 × 200–240 VAC inputs; dual redundant power supply configuration (primary and backup).
Rated Power	550W
Power Consumption	150W
Product Dimensions	650*437.5*88mm 0
Net Weight	7 kg (fully configured)