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Spectrum[™]

SOFTWARE INGEST



Spectrum X Quality and Reliability

Spectrum[™] Software Ingest (SSI) is built upon Harmonic's acclaimed Spectrum X media server technology, providing the same high quality and reliable performance in a software-only application for recording video clips over SDI or IP I/O.

Popular Workflow Support

SSI supports the most popular video and audio formats while strictly adhering to industry standards. MXF-wrapped MPEG2 or AVC video files can be saved to the local disk or automatically transferred to a remote server or storage. Standard and high definition resolutions are supported.

Standard Control Protocols

Ingest on SSI can be performed manually or by scheduled automation using the Spectrum Media Studio suite of control tools or numerous other third-party applications.

Multiple System Environments

SSI's Linux operating system installs natively on your PC or server, or it can be installed in a virtual machine environment. Each ingest channel requires a license for operation, with a maximum of four ingest channels supported on a single PC or server. An SDI I/O card or IP I/O card is required (see the Specifications section for details).

HIGHLIGHTS

- Uses Spectrum X ingest technology for the highest quality and reliable performance
- Up to 4 channels of ingest per PC or server, one license per channel
- Performs manual or scheduled ingest controlled by Spectrum X APIs or VDCP-over-IP protocol
- Flexible configuration is possible using the SystemManager administration application

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SPECIFICATIONS

SYSTEM REQUIREMENTS

Recommended Server For Up To 4 Ingest Channels

HPE DL20 Gen10 4-SFF CTO Server	Intel Xeon E-2278G processor (16 cores @ 3.4GHz) 32 GB RAM HPE 240GB SATA RI SFF SC DS SSD HPE Ethernet 10Gb 2-port 562FLR-SFP + Adapter
HPE DL360 Gen10 8-SFF CTO Server	Intel Xeon 4214R (12 cores @ 2.4G/3.0G) 32 GB RAM HPE 240GB SATA RI SFF SC MV SSD HPE Ethernet 10Gb 2-port 562FLR-SFP+Adapter
HPE DL360 Gen10 8-SFF CTO Server	Intel Xeon 5218R (20 cores @ 2.1G/4.0G) 32 GB RAM HPE 240GB SATA RI SFF SC MV SSD HPE Ethernet 10Gb 2-port 562FLR-SFP+Adapter
PCIe Cards for I/O	DekTec dual port DTA-2172 or quad port DTA-2174B SDI card (option) Mellanox ConnectX-5 MCX512F-ACAT 25Gb card with Rivermax L-RMAX-CX5-800 IP I/O license (option)*

CODECS

SD

MPEG-2

3-24.9 Mbps LGOP; 25-50 Mbps I-frame HD 1.5 G (1080i 50/60,720p 50/60) MPEG-2 18-85 Mbps LGOP; 50-100 Mbps I-frame XDCAM HD 18, 25, 35, 50 Mbps RP 2027 Class 50/100 Class 100, 1920x1080i (25/29.97 Hz); (Generic) 1280x720p (50/59.94 Hz) AVC-Ultra Class 50 and Class 100, 1920x1080i (25/29.97 Hz); (Panasonic)

1280x720p (50/59.94 Hz) XAVC-I Class 100 (Sony) Class 100, 1920x1080i (25/29.97 Hz); 1280x720p (50/59.94 Hz) XAVC-L* High 422, Level 4, 25, 50 Mbps Record: 25, 50 Mbps AVC-Long GOP*

RASTER

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SD	525i @ 29.97 fps 625i @ 25 fps
HD	1.5 G 1080i @ 25, 29.97 fps 720p @ 50, 59.94 fps

CONNECTIVITY

SDI Input	Up to four SD/HD channels per server Requires DekTec dual port DTA-2172 or quad port DTA-2174B SDI card
IP I/O*	Dual 25GE ports for SMPTE 2022-6 / 2110 IP I/O Requires Mellanox ConnectX-5 MCX512F-ACAT 25Gb card with Rivermax L-RMAX-CX5-800 firmware

* Check for availability

ORDERING INFORMATION

Part Number	Description
SWR-SPX-SW-INGEST	License for 1 ingest channel. The license includes the following features: MPEG and AVC codec support, SD, HD and cross-conversion support, and the AUTO EXPORT service.
SWR-SPX-SW- INGEST-IP-IO	License for 1 ingest channel using ST 2110 I/O. The license includes the following features: MPEG and AVC codec support, SD, HD and cross-conversion support, and the AUTO EXPORT service.
NSM-2020	SystemManager software and server
NSM-2020SW	SystemManager software only