

OpenCube HD / SD

Ingest Server for MXF File Mastering



The Cutting-Edge Solution for Media Fabrication and Archiving



OpenCubeHD/SD

Format Agnostic - Video/IT Gateway - Production - Archive Migration

OpenCubeHD/SD is the EVS/OpenCube MXF server offering MXF file generation for streamlined tapeless workflows. MXF files (SMPTE compliant) are automatically created providing maximum interoperability in any production and post-production environment.

Based on OpenCube technologies, a division of EVS, OpenCubeHD/SD servers offer advanced network connectivity. Servers can be easily integrated into existing storage facilities, giving you great flexibility and the opportunity to cut back significantly on production costs. Directly connected to a VTR, to a Flexicart or to Live feeds in production or post-production, OpenCubeHD/SD efficiently ingests, reviews and prints back to tape all of your media in HD and SD formats.



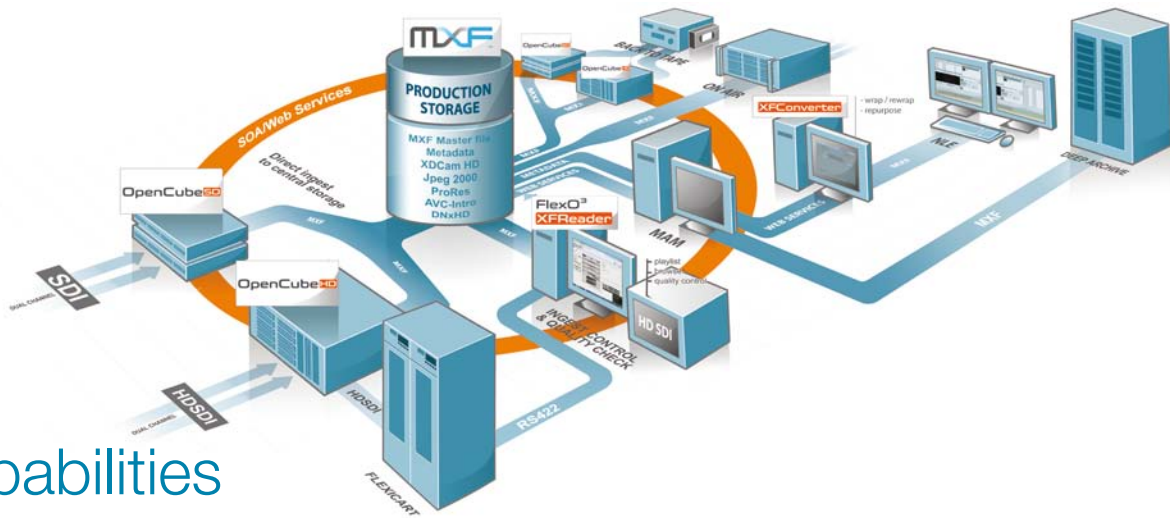
Key features

- Mono/dual channel SD & HD
- Advanced MXF files support (Op1a, Op1b, Op-Atom, etc.)
- Native multi-codec support: XDCamHD®, Jpeg2000, ProRes®, AVC-Intra, DNxHD®, etc.
- Subtitle and CC wrapping in S436M track

New with version 2.5

- ProRes®/MOV native support
- Proxy generation at ingest
- Comprehensive and faster than real time Jpeg2000 encoding
- Dual Channel "autosense" HD/SD





Main Capabilities

Multiple HD Format Acquisition

OpenCubeHD/SD allows you to capture video content in different formats wrapped with the appropriate metadata-enabled MXF wrapper and with native P2 and XDCAMHD support.

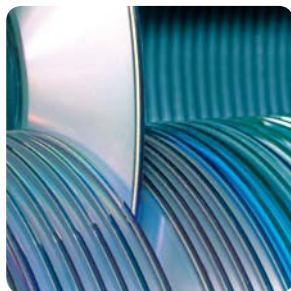
The server ensures the quality of the video and also makes efficient use of the MXF format for audio track management and wrapping VANC/VBI information.

The system can be controlled in different ways:

- via an intuitive GUI
- through a simple SOAP Web Services API
- using RS422 (BVW, VDCP) interface offering a full tape emulation in playback and record

Streamlined HD Production Based on Central Storage

OpenCubeHD/SD is a turnkey solution and a highly-effective HD gateway between your video equipment and editing environment. Its scalability allows you to easily connect it to your existing IT infrastructure, whether SAN or NAS. Digitized media can be directly dropped in a distant storage bin without local copy for confidence viewing, quality control and editing during ingest. OpenCubeHD/SD is delivered with an edit-oriented GUI for simple and straightforward media manipulation: browsing, checking, logging, ingest batching, consolidating and repurposing.



FlexO3

For massive video tape ingest projects, EVS now presents its new web-based FlexO3 application that allows you to flawlessly perform automation and archive digitization with a Flexicart robot.

FlexO3 has been developed to make ingesting as simple as possible. Each VTR in the Flexicart can be connected to an OpenCubeHD/SD video for a complete or partial digitization of the tape.

The application can be easily connected to your existing Media Asset Management (MAM) system using SOA Protocol to automatically retrieve useful metadata. Stack your Flexicart with tapes, close the door and FlexO3 takes care of everything. Barcodes are scanned, IDs are automatically sent to your MAM and all information retrieved from the MAM (TimeCode, Aspect Ratio, Audio tracks, Description, etc) is used to master archive migration and feed the MXF metadata. Advanced features allow the application to be monitored locally or from a distance using a Web browser.

FlexO3 also offers comprehensive Quality Check functions. Throughout the recording process, the VTR's "Channel Condition" can be monitored and displayed to the operator. The application can also launch OpenCube XFReader for confidence viewing of all MXF-ingested materials. And FlexO3 offers the option of being connected to Interra Baton™ for newly generated MXF Files for quality checks. All QC information can be communicated to your MAM system once it is connected.





Technical Specifications

Video I/O

- SDI I/O mono or dual channel [*] (upgradable in HD)
- HDSDI I/O autosense mono or dual channel [*]
- Dual link HDSDI
- 8 XLR AES/EBU channels
- LTC Timecode Input/Output
- VBI and VANC Input/Output

Application

- SOAP Web services API
- VDCP Control
- RS422 Control
- VTR emulation in Record & Playback mode
- Ergonomic User Interface
- Cut/Edit Timeline
- EDL import/export
- Batch capture from a VTR
- Barcode reader with database connection

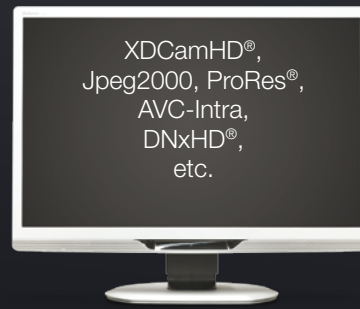
Supported Formats

- SD:**
- MXF D10 – IMX 30, 40, 50 Mbits
 - MXF DVCPPro 25 & 50 Mbits
 - MXF DVCam 25 Mbits
 - MXF Mpeg2 SD
 - AVI Mpeg2 422P@ML
- HD:**
- MXF Mpeg2 50 Mbits 4.2.2 (XDCAMHD® compliant)
 - MXF Mpeg2 HD (up to 120 Mbits/s)
 - MXF VC3/DNxHD® (36 to 220 Mbits)
 - MXF Jpeg2k HD Lossless and lossy
 - MXF DVCPProHD 100 Mbits
 - MXF AVC-Intra 50 & 100 Mbits
 - MOV/ProRes® 422, HQ, LT, Proxy, 4444
- Proxy (*):**
- VC1 - CIF - 1 to 2 Mbits
 - MXF DMS-1 Descriptive Metadata (XML)
 - MXF S436M for VANC/VBI vehicle
 - Mpeg2 PS and TS
 - DVCPPro DIF
 - Uncompressed RAW and Still Frames (DPX, YUV, TIFF, ...)

Hardware System Architecture

- Server Rack 3U
- Linux OS (2.6 Kernel)
- Gateway or 2 TB to 7 TB Internal Storage
- SAN/NAS connection

[*] Available as an option



Corporate

Headquarters
+32 4 361 7000

North & Latin America

Headquarters
+1 973 575 7811

Asia & Pacific

Headquarters
+852 2914 2501

Other regional offices

available at
www.evs.tv/contact



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