

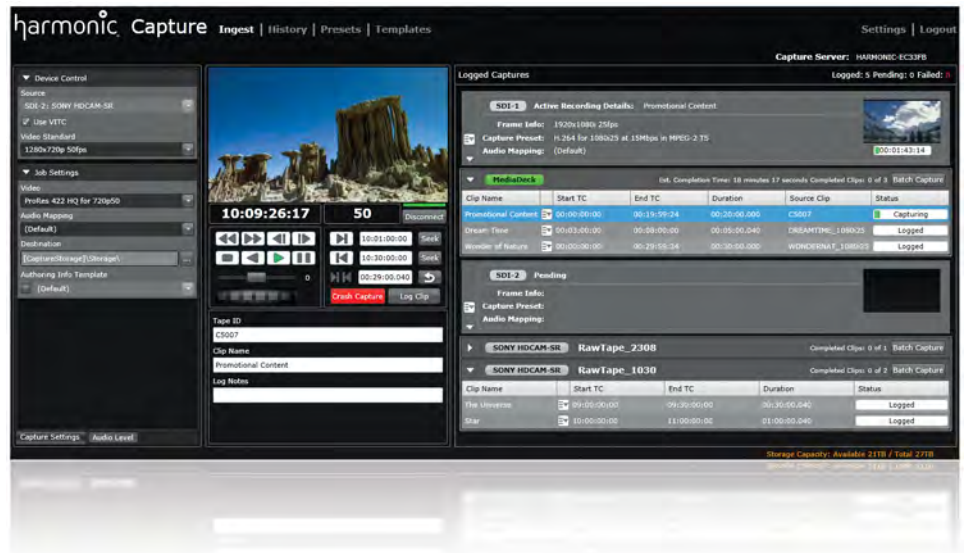
ProMedia Capture

VIDEO INGEST ENGINE



HIGHLIGHTS

- Real-time encoding of SD/HD video into most-common file formats
- Support for an extensive array of codecs and wrappers
- Two independent ingest channels
- Remote video monitoring and VTR control
- Flexible record methods
- Direct ingest to Harmonic Omneon® MediaGrid shared storage
- 1.3 TB of on-board storage
- Built-in firewall and antivirus software



Today's consumers demand their video anywhere, at any time, on any device. For content creators and service providers, preparing and delivering high-quality video for so many mobile and web applications brings unprecedented levels of complexity. The video processing infrastructure must support the acquisition of content from multiple sources in an array of formats. SD and HD video needs to be ingested and encoded, then stored, edited, transcoded, packaged and streamed. A bottleneck at the front end of the production chain can bring the entire workflow to a crawl.

The ProMedia™ Capture video ingest engine acquires live and taped SD and HD video in real time and encodes it directly into the most-common production and playout formats. Fast and reliable, it provides enormous time savings for the production and delivery of content for diverse applications such as video mastering, content repurposing, archiving and video on demand (VOD).

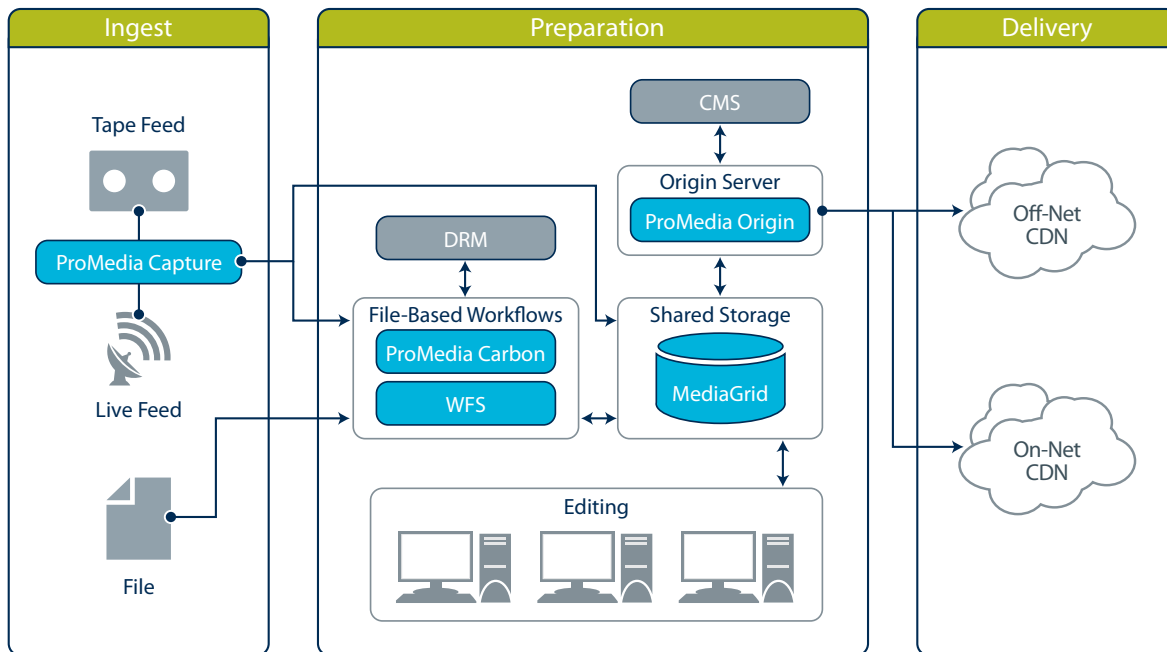
As the newest member of the ProMedia family of multiscreen and production solutions, ProMedia Capture supports an extensive array of acquisition, editing, broadcast, web and mobile codecs and wrappers. Leveraging the widely deployed ProMedia Carbon transcoding software, powered by Harmonic's Rhozet™ technology, ProMedia Capture assures that baseband content is efficiently ingested and immediately made available for program preparation. The ability to ingest directly into shared storage systems such as Omneon MediaGrid allows immediate editing, transcoding and quality control of content the instant it's acquired.

BUSINESS BENEFITS

- **Workflow Optimization** — ProMedia Capture streamlines file-based video workflows by encoding baseband SD and HD files directly into the required compression format at the critical moment it enters the video ecosystem.
- **Speed** — Direct ingest into scalable, high-performance MediaGrid shared storage makes content available to a variety of media processing applications simultaneously, resulting in faster workflows.
- **Convenience** — ProMedia Capture offers an integrated solution that simplifies operations. Any PC with a supported browser can be used to perform the capture process from anywhere on the network.
- **Efficiency** — ProMedia Capture automates dual SD/HD-SDI ingest channels with serial VTR control for remote or unattended operation. Integration with the Harmonic WorkFlow System (WFS) automates the complete production process, from ingest through playout.
- **Flexibility** — Users can choose from multiple record modes, including automated tape ingest and manual “crash” capture of either live or taped SD and HD content.
- **Compatibility** — ProMedia Capture supports Avid® Media Composer® and Apple® Final Cut Pro® nonlinear editing formats without the need for per-format licensing or additional hardware requirements. In addition to MediaGrid, ProMedia Capture integrates directly with the Harmonic Media Application Server and FilmPartners MXFserver storage system.

TECHNICAL ADVANTAGES

- **Breadth of Formats** — ProMedia Capture supports most industry-standard codecs, frame rates and bitrates to assure the ideal start to a file-based workflow. Mezzanine files can be output in the most common formats to drive “capture once, playout many” scenarios.
- **Intuitive User Interface** — Browser-based video monitoring and VTR control allow system management from any remote, networked workstation.
- **Direct Write to MediaGrid** — ProMedia Capture ingests content directly into MediaGrid storage with minimal delay. If a third-party NAS is used, ProMedia Capture first caches the content in local 1.3 TB storage (12 hrs. @ 220 Mb/s) before transferring it to the NAS.
- **Ancillary Data Support** — For file formats that support ancillary data, ProMedia Capture preserves non-video or audio essence data such as VBI and VANC. An API is available to provide a means for users to associate metadata with ingested files.
- **Tape Consolidation** — Multiple tapes can be captured into a single file to create lengthy content elements without the need for editing.
- **Robust Platform** — ProMedia Capture runs on the ProMedia 3102 application server, which provides the highest levels of platform security and stability.



Multiscreen file-based workflow featuring the ProMedia suite connected to MediaGrid shared storage

SUPPORTED CODECS & WRAPPERS

Codec	Wrapper	Ingest Channels	Resolution	Frame Rates	Bitrates (Mbps)
AVC-Intra	MXF OP1a/OP1b QuickTime	Dual (except MXF OP1a)	1280x720p 1920x1080i	25, 29.97, 50, 59.94	100
DNxHD	MXF OP-Atom	Dual	1280x720p 1920x1080i 1920x1080p	23.98, 25, 29.97, 50, 59.94	115, 120, 145, 175, 185, 220
DV25	MXF OP1a	Dual	720x480i 720x576i	25, 29.97	25
DVCPRO50	MXF OP1a/OP1b	Dual	720x480i 720x576i	25, 29.97	50
DVCPRO100	QuickTime	Dual	960x720p 1280x1080i 1440x1080i	25, 29.97, 50, 59.94	100
MPEG-2 SD	TS	Dual	720x480i 720x512i 720x576i 720x608i	25, 29.97	Up to 20
MPEG-2 HD	TS	Dual	1280x720p 1920x1080i 1920x1080p	23.98, 25, 29.97, 50, 59.94	Up to 50
MPEG-2 IMX	MXF OP1a/OP1b QuickTime	Dual	720x512i 720x608i	25, 29.97	50
MPEG-2 XDCAM HD	MXF OP1a/OP1b	Single	1280x720p 1920x1080i	25, 29.97, 50, 59.94	50
MPEG-4 AVC (H.264) SD	TS	Dual	720x480i 720x512i 720x576i 720x608i	25, 29.97	Up to 15
MPEG-4 AVC (H.264) HD	TS	Dual	1280x720p 1920x1080i 1920x1080p	23.98, 25, 29.97, 50, 59.94	Up to 15
ProRes 422 SD (HQ)	QuickTime	Dual	720x480i 720x576i	25, 29.97	Up to 61
ProRes 422 HD (HQ)	QuickTime	Dual	1280x720p 1920x1080i 1920x1080p	23.98, 25, 29.97, 50, 59.94	Up to 220

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