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XDCAM™

Professional Disc System

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Digital Video Solutions

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Quantel

RHOZET
Universal Media Transcoding



sobey

Avid



siler



XDCAM Interoperability Guide

XDCAM™
Professional Disc System

XDCM™
Professional Disc System

Speed. Freedom. Flexibility.

Welcome to the Twenty-First Century Production Platform.

We're living in a fast-paced world where program makers are under pressure to get great-looking images on air faster. As a result, broadcast workflows are evolving to network-oriented paradigms. From planning and acquisition to editing, playout and archive, broadcasters are actively embracing the benefits of file-based production to save time and money.

Sony's XDCAM® System is the world's first fully professional non-linear format that teams superb picture quality, performance and reliability with exceptionally attractive removable media. Based on proven optical disc technology, the XDCAM System brings all phases of the production process into one seamless workflow. Since you're shooting and editing with the same physical medium, Standard Definition or High Definition pictures captured in the field with XDCAM systems are instantly available in your non-linear editing environment. And because high-resolution content plus proxies and metadata are all stored on the same removable optical disc, the XDCAM System dovetails seamlessly with today's IT-oriented media environments.

Much more than just a standalone production format, XDCAM systems leverage support for MXF and open IT industry standards to provide interoperability with hardware and applications from over thirty vendors. With XDCAM systems, it's easier than ever to mix and match tools from your preferred suppliers... and have great-looking pictures ready for air before your competitors.

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Adobe is the world's leading provider of software solutions to create, manage and deliver high-impact, reliable digital content. Adobe provides a comprehensive set of industry-leading video and audio production tools for nonlinear video editing, visual effects creation, advanced audio editing, and DVD authoring.



Adobe Premiere

Tell your story with maximum impact using Adobe Premiere Pro CS3 software, the start-to-finish solution for efficient video production now includes Adobe Encore® CS3 and Adobe OnLocation™ CS3* (Windows® only), formerly the award-winning DV Rack™ HD.

Enjoy a complete capture-to-delivery workflow with included Adobe OnLocation CS3.

- Work with powerful editing tools.
- Experience unmatched Adobe application integration.
- Author to DVD and Blu-ray Disc and export Adobe Flash® projects to the web with included Adobe Encore CS3.

XDCAM System Compatibility

Adobe Premiere Pro 3.0 (scheduled for release summer 2007) enables production with the Sony XDCAM System, using solutions from Video Technics, Matrox, and Main Concept.

Video Technics' VT XDCAM browser

Connect directly to any XDCAM System device on the network to browse and sort by ID, date, duration, and thumbnail picture. Transfer files without transcoding, preserving their original quality. Drag and drop files directly into the local Adobe Project Bin for fast, flexible editing.

Matrox Axio

Matrox Axio provides a hardware-accelerated XDCAM System editing experience, based around Adobe Premiere Pro. Import and edit MXF files natively on the Premiere Pro timeline, combining multiple streams and effects in real-time using Matrox's legendary, no-render workflow. When finished, output MXF files for write-back to XDCAM System disc.

Main Concept MPEG Pro HD

MPEG Pro HD provides a fast, convenient software solution for XDCAM System editing with Adobe Premiere Pro. Work anywhere - in the field and in the studio, using native MXF editing to produce high quality results. Write-back to XDCAM System disc using Main Concept's Smart Rendering, saving time and maximizing quality.

Products supporting the XDCAM System:

Adobe Premiere Pro 3.0 (with Video Technics VT XDCAM browser plug-in - SD support HD support available now)

Matrox Axio HD, Matrox Axio SD, Matrox Axio LE

Main Concept MPEG Pro™ HD

Adobe

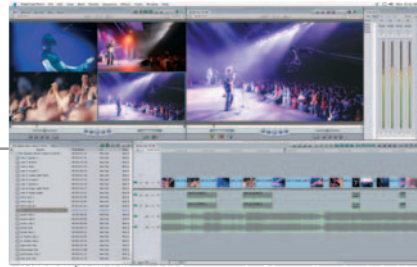
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The above information has been provided by Adobe.



Final Cut Pro combined with Sony's XDCAM System Transfer software provides broadcast and post-production customers with the fastest non-linear workflow available. Browse proxies, mark sub-clips, and ingest hi-res files directly from the XDCAM System disc. Transfer clips directly into Final Cut's bins in the background while you continue to edit. Work with native XDCAM HD video at SP (25Mbit CBR MPEG-2), LP and HQ quality (18Mbit and 35Mbit VBR MPEG-2).



Final Cut Studio

Final Cut Studio has become the new standard for HD post-production, with integrated, real-time tools designed to help you deliver beautiful HD programming on impossibly tight deadlines. Start with Final Cut Pro for native editing of virtually any format— from DV and SD, up to HDV, DVCPRO HD and XDCAM HD, and fully uncompressed HD. Add HD motion graphics in real time with Motion, the fastest way to animate and express your creative vision. Sculpt, mix, and repair audio using Soundtrack Pro, the only audio application designed from the ground up for HD production work. Finish and output HD back to tape using Final Cut Pro, optical disc with DVD Studio Pro, or the web and iPod with Compressor.

XDCAM System Compatibility

Final Cut Studio offers integration with Sony XDCAM System devices via Sony's "XDCAM Transfer Software for Final Cut Pro." Once installed, editors can transfer DV, IMX, and HD content from XDCAM System discs into Final Cut Pro. Final Cut Pro supports native editing of DV, IMX, and XDCAM HD content, preserving the full quality of the camera-original content.

Once the files are in Final Cut Studio, editors have access to real-time effects and filters, multicamera editing tools, real-time motion graphics and full support for Xsan workflow editing.

Products supporting the **XDCAM System**:
Final Cut Studio

Apple

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The above information has been provided by Apple.



Success in broadcast and professional media production depends on making the most of every asset: your systems, your staff and your media. Avid's integrated digital nonlinear solutions support your existing technology, industry-standard formats and third party devices to leverage an all-encompassing workflow and optimize productivity. Access is vital. Editors, journalists, and promotions producers edit centralized media in real time. Feed room operators, media logging assistants, and reviewers contribute from their desktops without waiting for an edit suite. Only an efficient, end-to-end workflow provides complete control of the process at every point. Avid solutions take all types of live and long form production to new levels of quality and productivity. With unparalleled speed, broadcasters can create well-produced, high-quality content - from the journalist's desktop, from the field at the last minute, and deliver it to air, to the Web, or to wireless phones. Streamline the production process, automate steps along the way, and do more with the resources you already have. That's the total Avid broadcast solution.

XDCAM System Compatibility

The XDCAM System users can interface directly with Avid® NewsCutter®, Avid Symphony Nitris, Avid Media Composer®, Avid Xpress® Pro, and Avid Liquid™ editors using IEEE1394 connectivity. Several workflows are possible among these systems, including both proxy-based and high resolution material. Direct ingest and native editing of 18, 25 and 35 Mb/s data rate XDCAM HD media is supported, and can be intermixed with other formats on the timeline, including variable frame rates.

SD and HD proxy material is imported much faster than real-time and can be edited directly in the Avid timeline where it can be intermixed freely with any of the many formats and resolutions. Once the edit is complete, a single click is all that is needed to conform the sequence, importing only those sections of the high resolution material actually needed. FTP-based acquisition is also supported and provides faster than real-time transfer of high resolution media directly to individual editing workstations or to an Avid Unity™ workgroup where it can be accessed simultaneously by many editing clients. Products supporting this workflow include Avid NewsCutter XP, Avid NewsCutter Adrenaline, Avid Symphony Nitris and Avid Media Composer. Both solutions are excellent examples of the commitment of Avid Technology to industry-standard, open platform technologies such as MXF, for delivering superior workflow and productivity.

Products supporting the XDCAM System:

Avid NewsCutter Adrenaline	Avid NewsCutter XP	Avid Symphony Nitris
Avid Media Composer	Avid Xpress® Pro	Avid Liquid

Product Descriptions

Avid NewsCutter Adrenaline
Avid NewsCutter XP

The fastest editing and repurposing of news and sports packages, a full feature set to meet every type of broadcast need, support for the SD and HD formats you use, all with comprehensive newsroom integration.

Avid Symphony Nitris

The incredible media processing power of Avid Nitris hardware delivers multiple simultaneous streams of 10-bit uncompressed HD and SD video with a host of real time effects, so you and your clients see results right away.

Media Composer

Now available in a software only version, professionals count on Media Composer more than ever - from top clients to top talent - for the strongest creative toolset in features, compatibility, workflow, and performance. Realtime HD, SD, and DV performance, legendary image quality and integral to the most effective media production environment.

Avid Xpress Pro

Powerful HD, SD, DV, and film editing software, with native HD editing, advanced colour correction, and the industry's most complete set of professional features.

Avid Liquid

Fully integrated application for corporate and event videographers including SD & HD multi-format editing, Surround Sound Audio mixing, integrated DVD authoring and a wide variety of output formats.

Avid Technology, Inc.

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The above information has been provided by Avid Technology, Inc.



Blue Order is a global provider of turnkey Media Asset Management (MAM) solutions. Media and entertainment companies, corporations and public institutions use Blue Order products to collect, index, catalog, retrieve and distribute audio-visual and multi-format content. The Blue Order Media Archive product suite provides a comprehensive MAM framework to support new digital content services, optimize workflows and increase efficiencies along the content value chain.

Blue Order has been deploying its products since 1995 for a broad range of customer applications, with a special emphasis on broadcast, library and media production applications. Blue Order has well-established partnerships with technology providers and system integrators to ensure industry-specific solutions and professional services.



XDCAM System Compatibility

Media Archive's XDCAM integration connects Sony's XDCAM System devices to Blue Order's leading enterprise-scale Media Asset Management platform. With this integrated solution, users can import content recorded on XDCAM System devices into Media Archive in a fully automated process, making this content instantly accessible, retrievable, browsable, and reusable to hundreds or even thousands of users.

High-res MPEG-2 IMX production quality video clips are simultaneously captured in low-res, frame-accurate MPEG-4 MXF browse proxies that are both fully supported by Media Archive.

Using the Media Archive Workspace management, the user can look into the XDCAM System device and see the content and its metadata. Footage from XDCAM System devices can be automatically transferred as individual media objects to the archive system. During the transfer, the Media Archive Workflow engine triggers a video analysis process, detecting hard cuts in the video material and generating a set of keyframes which provide a visual abstract of the video material. Frame accurate browsing and EDL creation using the MXF browse proxy is also enabled at this stage.

High-res MXF essences may remain on the ProDiscs and will be referenced in Media Archive's Essence Management or can also be transferred to a disc or tape based storage system. All metadata associated to the XDCAM System recording will be automatically imported to and kept in the Media Archive system enabling future use of the media content. This metadata can be enhanced using the Media Archive Cataloging Client.

Simply at the touch of a button, users can quickly and easily search for archived material, browse, review and catalogue it and assemble EDLs almost immediately after acquisition. Based on EDLs the production quality video clips can be restored fully or partially from the ProDisc or another storage device onto an Edit, Playout or Production system.

Products supporting the XDCAM System:

Media Archive 3.1, Media Archive 3.2

Media Archive

Media Archive® is a highly scalable and extensible Enterprise Media Management platform designed to manage rich media content in time critical applications.

Media Archive is a distributed, modular, open and scalable software platform, which is under continuous ongoing development. Media Archive's open architecture allows for the integration of third party software components, including database management systems, full text retrieval engines, streaming servers, format conversion, analysis and indexing tools from various vendors. Media Archive may also be adapted to the specific needs of the customer; interfacing to legacy databases, cataloguing and editing systems.

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The above information has been provided by Blue Order Technologies AG.



Dalet's broadcast and asset management solutions are used in 50 countries by over 1,700 customers including ABC, ARD Tages-schau, BBC, Bayerischer Rundfunk, Cadena Ser, Canadian Broad-casting Corp, Catalunya Radio, Deutsche Welle, EMAP, Emmis, Entercom, Fashion Show Media Network, ITN, Journal, MBC, Mediaset, MediaCorp Singapore, National Public Radio (NPR), NDR, Radio France, Radio France International, Radio Suisse Romande, Rhein-Neckar Fernsehen, Radio Television Malaysia (RTM), The Scottish Parliament, SKY Television, South Africa Broadcast Corp., SWR, Universidad Autónoma de Barcelona, Voice of America, Washington and Lee University, WDR, Weather Channel, and XM Satellite Radio.



XDCAM System Compatibility

DaletPlus InterWeb, DaletPlus News Library and DaletPlus News Suite fully integrate with Sony's XDCAM System decks. DaletPlus users can easily review and record DVCAM and MPEG IMX material into the DaletPlus asset manager via network (ftp), i.LINK or file access mode, either complete files or selected parts that are marked through the MPEG4 preview. Once ingested, DaletPlus users are able to edit the clips, add voiceovers, preview and queue material for broadcast.

Designed with an asset management infrastructure, DaletPlus products maintain all associated XDCAM System sourced metadata from ingest to archive. XDCAM System metadata enters Dalet's core media asset management system that features customizable forms, live database updating and links to HSM (hierarchical storage management) systems. As news production moves to more IT-centric workflows and technology, the Sony XDCAM System technology perfectly represents the next generation of metadata-aware formats that will be vital to effectively cataloguing and retrieving broadcasters' growing library of digital assets.

Products supporting the XDCAM System:

- DaletPlus 1.4
- DaletPlus 1.5

DaletPlus News Suite

DaletPlus is the underlying enterprise-wide architecture for the latest generation of Dalet broadcast solutions. A product of one of the most comprehensive software development efforts in the industry, the DaletPlus enterprise-wide media platform empowers all DaletPlus products with user access rights, metadata management and workflow design.

DaletPlus serves as the foundation for DaletPlus broadcast family of products:

- DaletPlus News Suite:** end-to-end television news production and playout,
- DaletPlus InterWeb:** multi-location production and asset management and
- DaletPlus News Library:** media asset management and archiving design for television news.

Dalet Digital Media Systems

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The above information has been provided by Dalet Digital Media Systems.



Dayang Technology Development Inc. is a world-leading designer and manufacturer of broadcast equipment. Founded in 1989, Dayang produces a wide range of standard-definition, high-definition and web-based products for content creation, ingest, archiving and broadcast playout. The company is based in Beijing with additional research and development centres in Shanghai and Tianjin.

Manufacturing and production are ISO-9001 certified, ensuring the highest standards of design, assembly, testing and delivery. International sales and marketing headquarters are located in Hong Kong with offices in Europe, South America and South East Asia.



XDCAM System Compatibility

Dayang's D³-Edit workstation is designed to link seamlessly with Sony's XDCAM System optical disc media, enabling fast and efficient editing. The two systems can be connected via IEEE 1394 or Ethernet. Content is then ingested into D³-Edit as browse-resolution proxy clips or at high-resolution. The D³-Edit workstation can in turn writeback a clip list or a precisely edited program.

Post-production workflow begins with the ingest of proxy clips from XDCAM System disc into the Dayang D³-Edit workstation. Preliminary editing can then be commenced immediately, resulting in an initial edit decision list. This EDL is used as the basis of precise editing which is subsequently rendered and written back to an XDCAM System disc.

News editing workflow begins with the ingest of proxy clips into a mobile nonlinear editor which then forms a basis for preliminary editing. The resultant clip list is transferred back to the original XDCAM System optical disc. High resolution video content can then be edited precisely using the clip list as a guide. Finally, the news content is rendered and the precisely conformed program is written back to disc.

Products supporting the **XDCAM System**:

D³-Edit HD, D³-Edit 7000 series, D³-Edit 5000 series,
D³-Edit 3000 series, D³-Edit 2000 series, D³-Edit 1000 series

D³-Edit is an infinite-layer multi-format titling, animation and real-time post production compositing solution. D³-Edit offers broadcast image quality, workflow efficiency, advanced tools and high performance, all within a transparent database structure designed specifically for the individual producer, professional editor, and the large broadcaster.

D³-Edit comes in both HD and SD format. It's modular architecture includes software codec, effects engine, hardware driver, and resource manager. This allows easy upgrade and maintenance, protecting the investment.

The workspace features multiple editing modes, comprehensive media manager, professional audio tools, and a complete suite of graphics and titles. Thousands of high quality render-while-you-edit software-based editing effects are provided.

Dayang International Limited Contact

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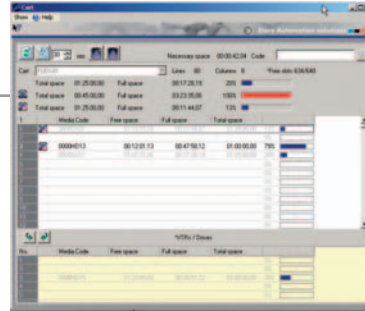
The above information has been provided by Dayang International Limited.



Etere develops and distributes a wide range of high technology software for the broadcast industry, the Italian company is a leader in the world, developing software which alone can manage the entire playout of a TV station.

In 18 years, Etere has grown from a few installations in Italy, to becoming a leader in the broadcast market. Now, the Italian company is a symbol of leadership, technology and dynamism all over the world. It's currently used by more than 750 companies including: Mediaset, RAI, TVRI, ABS-CBN, Solar TV, Antenna TV, Al Hawas, MTV Italy, CHT, Shin Satellite, CH-3, Channel 1, Orbit.

The company has not changed the management or the main developers group for the last 18 years and this symbolizes our great stability.



ETERE WORKFLOW SOLUTIONS

Etere is the only product developed using a common framework where there is a real time sharing of all the data among several applications:

Automation, Scheduling, Traffic, Asset & Media Management, News Automation, Archiving and Web sharing.

Etere's workflow is able to coordinate all the areas with an unbeatable level of performance, and in addition to that, it's very easy to use. The Etere innovative workflow allows you to increase productivity and quality while cutting costs. Etere is a modular solution, 100% software and it doesn't require special hardware. It works on a standard PC and interfaces with the most widespread devices on the market.

XDCAM System Compatibility

Functions:

Etere includes XDCAM System file-based workflow in all it's functions. Using the XDCAM System, it's possible to ingest playout and archive in a full file based environment.

XDCAM formats supported:

Etere also supports the XDCAM System cart both in playout, recording, and file based transfer, setting up the deck to the appropriate format, and recognizing the disc format. Short event reel: Etere compiles a single disc containing all the commercial breaks of the day using XDCAM System Playlist functions, and update it is few seconds. Etere Trascoding and streaming works on all XDCAM System formats including HD. Etere also supports the XDCAM System cart both PDJ-C1080 and PDJ-A640, including the following functions:

- Single channel playout
 - Multiple channel playout
 - Auto ingest
 - Auto archive
 - HSM library
 - Editing integration.
- Etere solutions are fully integrated with the Sony XDCAM System. From ingest to media management, from archiving to digital playout. The Etere approach is to use a single framework to manage all the TV activities. In this vision the concept of cache and policy are completely outdated. The system knows the scheduling, the new rundown and even the search from the journalists so it's able to perform better than any other.

A scene can be cached while you are still looking at it, so whenever you choose... It's ready!! With Etere you use a single Database, not a different system for Automation, MAM and Archive. Etere is based on Windows to design a high performance system with the minimum hardware and maintenance cost. Etere has no proprietary hardware to cut down cost. It's priced by active slot, not by capacity, so you can have all the advantage of increasing tape capacity.

Products supporting the **XDCAM System:** Etere 17

Etere

Contact

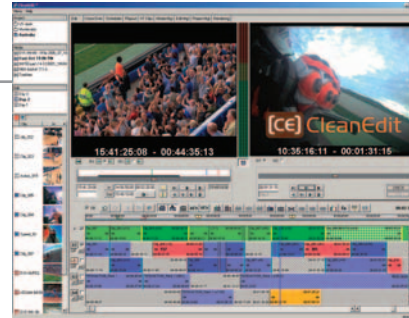
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The above information has been provided by Etere.



EVS Broadcast Equipment is a leader in the design of hardware and software for the production and playout of sport, news and TV programs in both live and near-live environments. Their innovative Live Slow Motion system revolutionized live broadcasting and their technology is now widely used in nonlinear editing and High Definition Television across the television broadcast market worldwide.

The company sells their branded products in more than 70 countries and is capable of providing service in any region. The company has offices in Belgium, Dubai, France, Italy, the United Kingdom, Hong Kong and the United States.



XDCAM System Compatibility

In News environments, the CleanEdit concept is largely based on the availability of low resolution copies of the broadcast footage. This allows cost-effective implementation within an existing IT infrastructure, and enables multiple users (journalists, editors, etc) to share content and projects. EVS CleanEdit does not require rendering at any stage of the workflow; last-minute changes on the low-res edit are available instantly for playout in high-res. The field generated proxies that XDCAM systems provide, link perfectly with this approach. The media importing from the XDCAM Professional Disc to the storage area and CleanEdit database is a very fast and automatic process. Users are therefore able to take advantage of their rushes very quickly and begin editing without delay. For high-res only or high and low-res, the XDCAM System integrates perfectly with CleanEdit. With the advent of HD, the latest generation of EVS CleanEdit Suite is now capable to incorporate XDCAM HD material.

Products supporting the **XDCAM System**:
CleanEdit Suite Package 2.0

EVS CleanEdit Suite

CleanEdit [Suite]

EVS CleanEdit Suite delivers a complete suite of affordable news and sports production applications from ingest to playout. The modular design allows the system to be scaled to meet the most demanding workflow requirements, and to be tailored to any newsroom environment. Journalists and editors are now capable of getting breaking news to air within a flash. Thanks to its industry-standard MOS support, CleanEdit can interface with third party NRCS systems. The CleanEdit Suite fully redundant SQL database, SAN storage and simple interface to digital archiving systems guarantee content integrity and long-term reliability. The recent evolution CleanEdit Suite adds flexibility of tapeless systems combined with the creativity of Non Linear Editors for news and sport production. With the advent of high definition, the latest generation of CleanEdit Suite, is offering a fully HD native support.

EVS

Contact

EVS, Sales & Marketing

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The above information has been provided by EVS.



Gee Broadcast Systems has been supplying quality solutions to broadcasters for over 20 years. The Geevs server brand has become internationally renowned and is at the heart of well over 600 server channels. These range from single-channel, automated playout systems, to large networked distribution facilities. In addition to manufacturing the Geevs servers, Gee Broadcast Systems' subsidiary, Lightworks UK Ltd., provides pioneering non-linear editing systems which are hugely successful in film and multi-cam TV productions.

Gee Broadcast Systems offers training, support, distribution and integration of its own and third party solutions to meet all customer's needs.

XDCAM System Compatibility

Geevs video servers support the capture and playout of broadcast standard material in a wide range of formats, including MPEG2 and DV25. MXF compliance built into Geevs allows files from XDCAM systems to be simply dragged and dropped into Geevs storage, automatically updating the clip information database. Close integration between Geevs and XDCAM systems ensures that recorded material is captured transparently by Geevs and is then immediately available for editing or playout. Clip proxy browsing is available through Sony or our own partner application. Interoperability could not be simpler.

Products supporting the **XDCAM System**:

Servers: Geevs MR, MR+ and SD.

Lightworks Alacrity MR+ editing systems.

Geevs

The Geevs MR is a cost-effective, multi-channel server that is perfect for News system integration and small production environments. Geevs MR features a lightning fast response time, compatibility with industry standard production tools and multi-codec support. It also allows for multi-channel HD or SD ingest and play-out.

Like all Geevs Servers, it takes advantage of the Geevs Clients to produce flexible, network-controllable and customized workflows.

Alongside Geevs, a variety of SAN and NAS based storage solutions are offered to facilitate the sharing of content in very small or very large (50+) channel requirements.

Gee Broadcast Systems Ltd

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The above information has been provided by Gee Broadcast Systems Ltd.



Grass Valley provides complete fast turn production systems for TV News, sports and production.

Aurora Edit is a cost effective, user configurable editing solution that fits where you need it, as a cuts-only or as an effects rich powerhouse editor. Aurora Edit is a format-independent editing application that can be leveraged for both SD and HD editing, with built in transcoding for mixed media formats and aspect ratio conversion. Aurora Edit seamlessly handles any media for any project. Offering direct integration with XDCAM systems, Aurora Edit provides a direct view of high or low resolution content. All XDCAM HD media is protected once it is committed to the Aurora Edit timeline - allowing the XDCAM HD media to be safely removed and reused. Several bulk ingest options are available, including automated removable ingest (RMI). XDCAM HD files appear in native format within Aurora Edit bins so your workflow is the same as traditional sources.



Aurora Edit Aurora Ingest with RMI

Aurora Ingest with RMI and Aurora Edit support streamlined input and editing of XDCAM HD media for fast-turn production.

Connectivity is through both file access mode (FAM) and AVC for the flexibility to match a wide variety of workflows.

XDCAM System Compatibility

Aurora Ingest 6.3 and Aurora Edit 6.3 Support for both the AVC protocol for operation like a fast tape deck as well as file based modes where native high res video is viewed and edited directly from the XDCAM System. This information can then be committed to the time line and protected, even when an XDCAM System disc is removed.

Products supporting the **XDCAM System**:

- Aurora Ingest (with RMI)
- Aurora Edit

Grass Valley A THOMSON BRAND

Contact

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The above information has been provided by Grass Valley.



If you watch television or go to the movies, you've seen Grass Valley™ brand products at work. Grass Valley™ is the world's video and film expert—especially as broadcast, television, and film production go digital. And Grass Valley™ has got the Emmy® award-winning technologies and the top-flight customers to prove it.

Grass Valley EDIUS Broadcast is designed to meet the requirements of higher-end broadcast and post-production environments, including support for newer, non-linear formats of video recording and storage.

EDIUS

Realtime Mixed-format editing - without rendering. Spend more time on the creative process. With EDIUS version 4.5 you can mix SD and HD formats, use new progressive formats including HDV 720p 50/60, HDV 1080p 24 over 60i, and more—all without rendering. Wrap this in the new amazing user interface, and you have one of the most cutting-edge desktop video editing solutions available today.

XDCAM System Compatibility

Using MXF (Material eXchange Format), Grass Valley EDIUS Broadcast streamlines workflow using either a LAN connection or i.LINK® interface to the Profession Disc™ deck, making it easy to add XDCAM System footage to EDIUS projects without the need for any file conversion.

Users simply browse MXF files (MPEG2 HD, IMX, DVCAM and proxy) from the EDIUS system and begin editing. Since EDIUS supports true multi-format editing, it can mix different frame rates, sizes and even HD and SD resolutions of footages. This feature allows any XDCAM System footage to easily be incorporated into existing EDIUS projects.

Products supporting the **XDCAM System**:

Grass Valley™ EDIUS Turnkey workstation
EDIUS NX*; EDIUS SP; EDIUS SD; EDIUS HD

* Requires the software upgrade

Canopus

Contact

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The above information has been provided by Canopus.



Harris is the ONE company delivering interoperable workflow solutions across the entire broadcast delivery chain - providing today's broadcaster with a single, integrated approach to capitalize on the benefits of IT and mobile applications. By providing unparalleled interoperability across our product portfolio, Harris is able to offer customers integrated solutions that improve workflows, save money, enable new revenue streams and provide a migration path to emerging media business models. To meet the evolving needs of broadcast, distribution and entertainment businesses, Harris is the ONE answer for change.



XDCAM System Compatibility

The XDCAM System allows VelocityNX™ and NEXIO™ NewsFlash® to speed up the newsgathering process by file transferring news footage from an XDCAM System camera directly onto the NEXIO server rather than through traditional real-time ingest. News footage captured on XDCAM Professional Disc in the field can be passed from camcorder or deck to shared storage via a Gigabit Ethernet connection. Using GigE allows Harris broadcast equipment to share one XDCAM System file across many devices using your IT infrastructure. Unlike other vendor's solutions, this does not tie down your XDCAM System material to one machine, saving you money.

The XDCAM System files can be accessed by a VelocityNX or NewsFlash editor immediately, even while the footage is transferring, allowing the fastest possible turnaround for breaking news. Harris server technology makes it possible for all bays to view and edit clips simultaneously without any transfers. This 'true shared storage' allows users to see material coming in from any source (including the XDCAM System) as it is being transferred or ingested. Within seconds of completing the edit, finished material can be played to air; transferring files in this way can cut the news footage acquisition time in half.

Products supporting the **XDCAM System**:
VelocityNX™, NewsFlash®, NEXIO XS™

VelocityNX

VelocityNX™ is an on-SAN non-linear editor built for shared storage collaborative editing. Part of the Harris NewsForce family of products, VelocityNX offers all users direct Fibre Channel access to shared NEXIO storage. All VelocityNX edit seats are able to start editing the moment that ingest begins; there are no delays or restrictions. The VelocityNX feature set is rich, including SD and HD on the same timeline, special effects, and Inscribe® TitleMotion™ character generation all built in. VelocityNX eliminates the need to wait for transfers, dubs, or time-consuming edit bay ingesting. True shared storage, Fibre Channel speed, SD/HD, and XDCAM GigE transfers make VelocityNX the new leader in on-SAN editing.

Harris Corporation

Contact

Broadcast Communications Division
NEXIO Servers

Phone 1-818-843-7004
Website www.broadcast.harris.com

The above information has been provided by Harris Corporation.



Turn on a television or a radio almost anywhere in the world. Chances are excellent that the signal you receive is being broadcast with hardware from Harris Corporation's Broadcast Communications Division. Harris is regarded as one of the world's foremost developers and manufacturers of analogue and digital television transmission systems.

Today however, Harris Broadcast Communications offers much more as a global leader in total content delivery for existing and evolving markets. Through acquisitions and internal development, Harris has become a world class provider of software workflow management, service management and networking solutions.

XDCAM System Compatibility

The Harris XDCAM Cart Control System allows broadcasters to efficiently and effectively integrate the Sony PDJ-C1080 Professional Disc Cart machine system into digital asset management and multi-channel playout automation environments.

The Linux 2.6 based Cart Control System automatically manipulates the PDJ-C1080 robotics and XDCAM System discs and decks in order to build and maintain a database of all on-line Professional Disc content, associated segment timing information and other metadata. This information can then be accessed by Harris D-Series Automation and H-Class Digital Asset Management systems via a network connection.

The Cart Control System supports simultaneous real time control of all four PDW-1500 XDCAM System decks in the Professional Disc Cart, allowing a single PDJ-C1080 to service multiple ingest or playout channels as an economic, high density, next generation replacement for conventional tape based robotic playout devices.

Products supporting the XDCAM System:

All members of the Harris D-Series A7 and A8 family of ingest and playout automation products and H-Class Digital Asset Management system products support XDCAM systems, either directly or via the Harris XDCAM Cart Control System.

Harris D-Series Automation System

The Linux 2.6, open standards based D-Series Version 4 Automation System provides a reliable, scalable content management and delivery foundation for building the digital television facility of the future. D-Series efficiently and profitably bridges your transition from today's multi-channel content management and delivery environment to tomorrow's. Because every environment is unique D-Series is extremely configurable and can support a wide range of workflow solutions including medium and large scale XDCAM System file ingest and playout requirements.

Harris Corporation

Contact

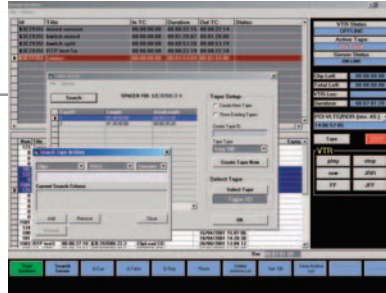
Harris Corporation, Eskdale Road,
Winnersh Triangle, Reading, Berkshire,
United Kingdom
RG41 5TS

Phone 44-(0)-118-9648-000
Website www.broadcast.harris.com

The above information has been provided by Harris Corporation.



Integrated Broadcast Information Systems (IBIS) has been offering MAM, Newsroom, Transmission and Channel Management solutions for over fifteen years. Founded by the team responsible for the UK Channel 4 launch in the 1970's and BSB's five channel satellite service the company has grown annually and now has installations and offices worldwide. Acknowledged as pioneers in videosever management IBIS MAM solutions are used in news, sport and transmission environments. When integrated with IBIS Channel Management a true end-to-end solution is possible from rights management through acquisition, library, transmission to as-run log reconciliation.



IBIS Archive

IBIS Archive offers archive to the XDCAM System from videosever and restore from XDCAM System to video-server. As part of the IBIS MAM solution metadata relating to archived and restored clips is tracked and matched throughout the workflow process.

XDCAM System Compatibility

In addition to exploiting the XDCAM System as a conventional digital video source with our automation and ingest tools, IBIS is providing integration with our asset management and archiving applications. This in turn provides the ability to access and use the in-built low-resolution browse video for reference and previewing, together with repurposing directly to web-compatible formats.

As IBIS reads, writes and updates the MXF metadata to allow management of the original shooting data and the addition of further data during the production process, IBIS is able to offer the XDCAM System - and its automated big brother the XDCAM Cart - as an alternative to archiving and near-line storage. This provides all the benefits of older data-only DVD-type storage combined with direct access to full broadcast-quality digital video playable on any XDCAM System device within a facility.

Products supporting the **XDCAM System**:

- IBIS Archive: move to and restore from archive
- IBIS ServerLoad: move material from tape to XDCAM
- IBIS ServerBase: track metadata
- IBIS Transmission Automation

IBIS

Contact

Phone 44-1483-280208
Website www.ibis.tv

The above information has been provided by IBIS.



IMC Technologies Inc is a market leader in providing revolutionary, end-to-end, integrated solutions for broadcasters based on user-approved, collaborative workflow for News, Sports, and Promo Production. IMC's total solution offers:

The way our applications interact, exchange and share both media and projects throughout the production process is what separates IMC from our competitors. All IMC products share the same ergonomic interface that is easy to learn and operate. The applications are all based on the same dynamic and open architecture, transparently preserving project and media metadata throughout all phases of production for maximum efficiency.

Why IMC Workflow delivers a greater return on investment and faster time-to-air:

- Open IT-architecture optimizes project collaboration
- Seamless dataflow reduces production time eliminating bottlenecks
- Shared storage Network (NAS, SAN) flexibility & Scalability
- Ergonomic user-interface reduces the learning curve
- Transparent media management & metadata control
- Network-based project management and Central DB support

IMC products are extremely open and flexible when it comes to interfacing with 3rd party hardware systems and 3rd party software applications commonly used in the world of broadcasting. Log, Ingest, Manage, Proxy, Journalism, On-line, News, Finishing & Packaging Playout.



The IMC new family of products is designed as a vertical and comprehensive set of applications capable of handling all phases of production.

M2 Media Manager for both disc-based and tape-based media logging and asset management

N1 Newsmaker for journalists editing by proxy on standard PCs connected to the network

RP Remote Producer for native DV or proxy media editing in the field or on the network

Q10 Task Server for background rendering and transcoding technology.

Reasons why IMC is the perfect solution for Post and Broadcasting:

- IT freedom: Full freedom and scalability to design the facility as you need
- Top-end production: Analog/digital on-line editing delivers highest quality news and sports programming
- Proxy/On-line transparency: Fully-integrated IMC newsroom (on-line) and journalist editing (proxy) applications.
- Batch encoding: Create multiple formats from the same media during ingest.
- Batch rendering and render farming
- M OS-integration: Project scheduling and publishing via newsroom applications like Octopus
- Advanced media management for logging, previewing, searching and multiple metadata entries, accessing media over the whole network.
- Unified metadata and project database architecture: All databases, metadata and media files can be instantaneously shared
- SAN and Gigabit-based networking
- Task Server Automation: Automate and monitor all renders, conversions and batch requests in the background and distributing tasks over the network

XDCAM System Compatibility

Incite will download the XDCAM System metadata, proxy files and hi-res files either via an ftp connection or via file-access mode. The download is done as a background service to allow the user to continue editing.

Incite automatically associates the proxy and hi-res files in our database and users can pre-edit and edit using the proxy files and switch to the hi-res files to finish.

Products supporting the **XDCAM System**:

RP Remote Producer, M2 Media Manager, MP Media Producer, N1 Newsmaker

IMC Technologies Inc

Contact

Phone 41-22-321-9585
Website www.incite-tech.com

The above information has been provided by IMC Technologies Inc.



MainConcept is a worldwide leading provider of high-quality codec technology for PCs, set-top boxes, mobile phones and DSPs, supporting industry standards such as H.264/AVC, MPEG-2, MPEG-4, DVCPRO HD, JPEG2000, VC-1, AAC and AC3. MainConcept's SDKs make it easy for developers to integrate a codec of choice into their own solution. Our DSP-based real-time encoding technology for H.264 video quality at the lowest bit rate allows partners to develop cost-effective solutions for broadcast contribution, mobile TV, and IPTV among others.

MainConcept is headquartered in Germany with subsidiaries in the USA, Russia, and Japan. The company serves the Asia-Pacific region by key distribution partners in China, Korea, and Taiwan. MainConcept customers include international companies such as Adobe, Leitch/Harris, mobiTV, muvee, Sonic Solutions, Sony, and many more.



MPEG Pro™ HD Plug-In for Adobe® Premiere® Pro

MainConcept MPEG Pro is a full-featured MPEG editing solution for Adobe® Premiere® Pro. Although Premiere Pro will import MPEG-1 and MPEG-2 material, it does not offer native MPEG editing with smart MPEG rendering. This means that each frame must be re-rendered even if no changes have been made. The MainConcept MPEG Pro plug-in eliminates these limitations and turns MPEG-1 and MPEG-2 editing into a productive work-flow with high-quality results. Using the HD version of the plug-in you can capture, import and edit high-definition videos in 1080i and 720p, and play them back to the camcorder as well.

MPEG Pro™ supports a variety of HD formats as well as the XDCAM System format.

XDCAM System Compatibility

MXF file support for Sony XDCAM HD is implemented into MainConcept's MPEG SDK. The addition of this support makes it easy for SDK licensees to add XDCAM HD support to their applications. The API includes support for the most popular features including CBR and VBR modes at 18, 25 and 35 Mbps.

In close cooperation with Sony Corporation, MainConcept has developed a cost effective, leading edge solution for an efficient Sony XDCAM HD workflow. Now a variety of popular products already using MainConcept technology will also be able to benefit from Sony XDCAM HD support.

MainConcept will also add this support to upcoming versions of its MPEG Encoder and MPEG Pro™ end-user products for Microsoft Windows.

Products supporting the **XDCAM System**:

MPEG-1 / MPEG-2 SDK

MPEG Encoder - AVI and QuickTime to MPEG

MPEG Pro™ HD - Plug-In for Adobe® Premiere® Pro 2.0



MainConcept

Contact

MainConcept LLC
Phone 1-925-463-4857
Website www.mainconcept.com

The above information has been provided by MainConcept.



Matrox Video Products Group is a technology and market leader in the field of HD and SD digital video hardware and software for realtime editing, DVD authoring, capture/payout servers, clip/still stores, and CGs. Matrox's Emmy award-winning technology powers a full range of content creation and delivery platforms used by broadcasters, post-production facilities, project studios, corporate communicators, and videographers worldwide. Founded in 1976, Matrox is a privately held company headquartered in Montréal, Canada.

Matrox Axio

Matrox Axio is a complete post-production solution that lets you get the best from the Adobe Production Studio software. The Matrox Axio family of HD and SD platforms is designed to give you the highest finishing quality coupled with the most comprehensive realtime feature set and the most versatile codec technology, completely integrated with the Adobe software.

Matrox Axio features no-render HD and SD finishing in a wide range of compressed and uncompressed formats, superior realtime colour correction tools, advanced realtime effects, and a full complement of analog and digital audio and video inputs and outputs. It incorporates Matrox Power of X and Flex technologies to leverage CPU and GPU power to provide the ultimate HD and SD post-production environment.

Matrox DSX

Matrox DSX is a family of HD and SD video and audio components that exploits Matrox's "Power of X" architecture. OEMs and developers leverage scalable CPU power with the explosive performance of dedicated hardware to create a wide variety of cost-effective, high-performance products and applications including NLE systems, capture/payout servers, clip and still stores, graphics/production servers, automation and master control units, multi-layer compositors, and CATV Barker channels.

Matrox DSX combines codec and effects technologies and a full range of professional hardware components with a comprehensive Windows XP based SDK.

XDCAM System Compatibility

Matrox products provide realtime editing of OP-1A standard MXF files captured using Sony's XDCAM and XDCAM HD systems. DVCAM, MPEG IMX, and MPEG HD are all supported.

Matrox Axio users can import native XDCAM and XDCAM HD System files and mix them with a variety of other native HD and SD media and AVI files on an HD or SD timeline in real time. This smooth workflow and interoperability eliminates inefficient, time-consuming file and codec transcoding and effects rendering. It simplifies integration with various broadcast equipment and eases file management in networked environments by eliminating file recompression to match timeline formats.

Products supporting the XDCAM System:

- Matrox Axio LE
- Matrox Axio HD
- Matrox Axio SD
- Matrox DSX developer platforms

Matrox Electronic Systems Ltd.

Contact

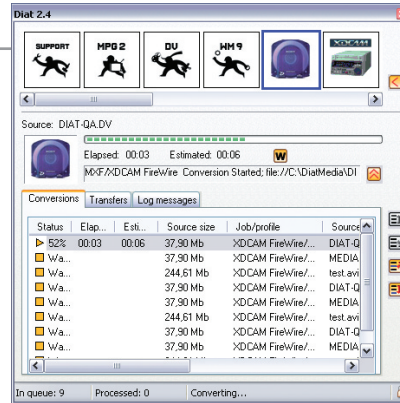
1055 St. Regis Blvd Dorval,
Quebec Canada, H9P 2T4

Phone 1-800-361-4903
Website www.matrox.com/video

The above information has been provided by Matrox Electronic Systems Ltd.



Founded in 2000, Mediateket has already taken the role as one of the leading system integrators and software developers in the Nordic region. The company has specialized in IT solutions for TV and media production, including graphic automation and media file conversion.



“Drag, Drop, Done”

DIAT is a small footprint conversion tool designed to simplify the task of converting and transferring professional media files.

With a friendly user interface, DIAT is the perfect tool for artists, journalists and non-technical operators.

Ever had problems converting and transferring files from your NLE system? Not anymore! Now it's simply a Drag & Drop operation!

XDCAM System Compatibility

DIAT is a software conversion tool developed by Mediateket AS for conversion and transfer of media files.

With its built in XDCAM MXF support, DIAT will export and transfer XDCAM MXF media files. After editing in one of the supported NLE systems, DIAT will handle the export back to your XDCAM System device through the Sony Ethernet Network Adapter or Firewire (FAM) as well as convert and transfer the XDCAM System files to multiple destinations over Internet or LAN.

DIAT dramatically simplifies the process of file conversion and transfer to XDCAM systems and multiple other file formats and destinations.

Products supporting the **XDCAM System**:

DiAT: Software conversion tool for conversion and transfer of media files.

DiAT I/O Station: Turn-key solution for file conversion to and from baseband video

DiAT Online: Web service for sharing, delivering or exchanging media files on any network.

Mediateket

Contact

Phone 47-4828-1000

Website www.diat.no

The above information has been provided by Mediateket.

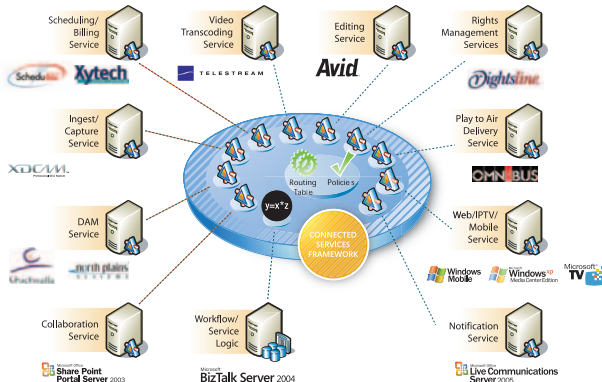
Microsoft®

Microsoft has a team of professionals from the media and entertainment industry who know, firsthand, the internal and external pressures of the broadcast and film industries. That team, combined with a select group of media-connected technology partners, is helping companies to embrace a digital environment and transform their businesses by strategically using technology. The result? Increased operational efficiency, reduced costs, the ability to take advantage of new business opportunities as they emerge, and enhanced consumer content and services experience.

Microsoft Connected Services Framework

Microsoft Connected Services Framework for Broadcast and Film: Speed content creation, improve content management and stream-line content distribution, to increase business productivity and realize new business opportunities.

Digital Integrated Workflow



Microsoft

Contact

Microsoft Corporation
One Microsoft Way,
Redmond, WA 98052

Phone 1-800-642-7676
Website www.microsoft.com/serviceproviders/solutions/connectedservicesframework.mspx

The above information has been provided by Microsoft.



MOG Solutions is a leading provider of MXF technology. It offers a diverse, award-winning product family of powerful MXF tools that enable accelerated development and migration to the next generation of IT-based multimedia content applications.

MOG Solutions' products allow customers across all sectors of the industry - including broadcasting, digital cinema, advertising and distribution - to quickly adopt MXF.



theScribe

theScribe is a full-featured MXF application that allows users to prepare their MXF content for Archive and Distribution. It allows the generation, playback, and manipulation of MXF files, including the annotation of metadata synchronized with the audio-visual material and fully compliant with DMS1 or any metadata model of your choice. theScribe features a comprehensive set of functions and wizards to create, cut, convert and transfer MXF files from XDCAM System devices, and to export the results to an extensive range of devices and NLEs. theScribe is available in Lite and Pro version.

XDCAM System Compatibility

MOG Solutions combines a comprehensive support of the MXF standard with a substantial amount of development effort dedicated to the integration and interoperability with MXF devices, providing manufacturers and end-users with the best tools to take full advantage of SONY XDCAM SD /e-VTR and XDCAM HD systems.

MOG Solutions' MXF software is used by several key manufacturers to support XDCAM System in their products. The development tools include specific code and documentation related to XDCAM System support, enabling seamless and efficient integration.

theScribe interfaces directly with XDCAM System devices either through FTP or via the iLINK interfaces. Browsing, Playback, Metadata Editing and Partial Restore are supported for all XDCAM System files, including MPEG and DVCAM, as well as MXF Proxies. theScribe also provides Hi-Resolution conforming of Sony XDCAM System Proxy EDLs (PDZ-1 EDL import) and MXF Operational Pattern conversion, from multiplexed AV (OP1a) to separate video and audio files (OPAtom).

Toboggan produces XDCAM proxy, SD and HD compatible streams allowing easy integration in an XDCAM System workflow.

MOG Solutions' MXF products are a perfect match to XDCAM System, allowing customers across all sectors of the industry to take advantage of networked workflows.

Products supporting the **XDCAM System**:
All MOG Solutions MXF products offer XDCAM SD and HD interoperability:

MXF Development Tools:
MXFComponentSuite v3.0
MXF::SDK v4.0

MXF User applications:
theScribe v3.0
Toboggan 1.3

Toboggan

Toboggan is an SDI to MXF encoder software solution with Enhanced Metadata support. It allows delivery of the MXF file directly to an FTP server. Monitoring of the capture process is done over HTTP.

MOG Solutions

Contact

Phone 351-22-940-8224
Website www.mog-solutions.com

The above information has been provided by MOG Solutions.



Newauto Silicon Valley Video Technology Co., Ltd. is a leading provider of equipment, solutions and services for network integrated professional digital video production and archiving. Its HDISD solutions empower the broadcast organizations on content creation and distribution for newsroom and postproduction with technologies of nonlinear editing, video graphics, virtual reality, ingest, playout, media asset management and interoperable end-to-end workflow. Founded in 1990 and headquartered in Beijing China, Newauto Video manages an efficient system including R&D, integration, marketing and sales divisions plus a chain of branch offices nationwide.



HIMALAYA NLE System

Characteristics:

- Support for Multiple HDISD standards
- Import, editing, export of XDCAM System clips
- Mix-editing of various media formats
- Multi-layer video playback in real-time
- Real-time video and audio effects
- AfterEffect plug-in effects support
- Vector-Scope and VU-Meter
- Dolby AC3 5.1 channel support
- Multi-layer titling, animation, scroll and crawl
- Network integration with Auto.NET

XDCAM System Compatibility

Newauto HIMALAYA NLE product line supports connectivity with different types of devices including Sony's XDCAM System. MXF files in the XDCAM System can be imported into NLE system for native editing without conversion, the edited files can be written back onto an XDCAM System disc, and the upload and download can be done via either i.LINK or Ethernet interfaces. The NLE system supports interoperable editing of both high-resolution and low-resolution files.

Products supporting the XDCAM System:

HIMALAYA X3000, HIMALAYA X2000, HIMALAYA A1500, HIMALAYA A1200, HIMALAYA A1000EX, HIMALAYA A1000SP, HIMALAYA A1000, HIMALAYA MOBILE.

Newauto Silicon Valley Video-technology Co.,LTD

Contact

Phone 86-10-62586666
Website www.newautovideo.com

The above information has been provided by Newauto Silicon Valley Video-technology Co.,LTD.



Omneon is the leading provider of cost-effective and flexible networked media servers for broadcasting. Media server solutions from Omneon enable broadcasters to migrate from analogue to digital, from tape to disc, from standard definition to high definition and from single to multi-channel operations. By combining its expertise in broadcasting with the best practices of information technology, Omneon is able to provide an open and advanced architecture that minimizes the customer's upfront and ongoing expenses, while enabling them to capitalize on emerging opportunities.



Omneon Spectrum Media Server

The Omneon Spectrum™ media server system is the broadcast industry's most scalable and reliable video server and storage. It is designed with Smart Scalability™ ensuring investment protection. Video I/O channels, storage, IP bandwidth, and redundancy are independently scalable so broadcasters can easily design servers in lock-step with their needs.

XDCAM System Compatibility

The XDCAM System is a great example of how the MXF standard is simplifying broadcast workflows. The Omneon Spectrum media server can transfer files to and from XDCAM System equipment while maintaining pristine video and audio quality and with no loss of metadata. Files are moved at much faster than realtime and can be played to air without any file conversions.

The Omneon Spectrum system stores MXF files from XDCAM System equipment natively in the file system. Doing so eliminates the need for translation software and gateway computers, which complicate workflows, and introduce translation errors and metadata loss.

The Omneon file system was designed from inception to support format independent storage and requires no changes in order to be able to support MXF functionality. Files which are ingested over IP as MXF files are simply stored on the file system like any other file. The Omneon Spectrum supports both IMX and DV25 video essence in MXF format from XDCAM System equipment.

Products supporting the **XDCAM System**:

IMX is currently supported on system software 4.2 or later.

DV is supported on system software 4.6 or later.

Omneon Video Networks

Contact

Phone 1-408-585-5000
Website www.omneon.com

The above information has been provided by Omneon Video Networks.



OmniBus provides broadcasting, cable, satellite and telecom operators with comprehensive master control, automation, playout and media content management solutions that address every area of television, mobile TV and IPTV-related operations.

Its transmission, newsroom, content and workflow automation solutions include acquisition and recording of rich media material, editing, media asset management and playout.

OmniBus is a global company with headquarters in the UK and US.



TransXDCAM

Transfer Manager module (TransXDCAM) is OmniBus' integrated XDCAM System media transfer solution within its OPUS Content Management suite. TransXDCAM enables: archival of media from disc servers to XDCAM System optical discs; retrieval of proxy files from the XDCAM System optical discs, allowing browsing of optical disc archive through-out the OmniBus system and restoring of media to disc servers.

XDCAM System Compatibility

The OPUS Content Management Suite with TransXDCAM module allows optical discs to be used as archive storage.

Integration between XDCAM systems and disc servers using ftp for file transfer (both archive and restore).

Proxy media obtained from XDCAM systems is fully integrated into OmniBus browsing software such as OPUS.View

Proxy media is available on a central file server.

Products supporting the **XDCAM System**:

OPUS Content Management Suite with optional TransXDCAM module

OmniBus Systems Limited

Contact

Phone 1-303-237-4868
Website www.omnibus.tv

The above information has been provided by OmniBus Systems Limited.



OpenCube Technologies, an award-winning IT/video lab based in Toulouse, France, is a pioneer in the field of video/network integration and at the cutting edge of the video digital revolution.

We have world-class expertise in MXF development, metadata management, media data interoperability and significant experience in putting these skills to use. We apply our know-how to developing the advanced applications the video industry requires to streamline production workflow and boost productivity.



OpenCube's MXFTK® Toolbox

Set of powerful and cost-effective tools that enable you to efficiently manage XDCAM MXF files.

The package includes multiplatform SDK, easy-to-use graphical applications and a MXF File Viewer for managing all types of MXF files and Stream.

XDCAM System Compatibility

MXFTK® is a comprehensive solution for managing XDCAM System equipment and the MXF files they generate.

MXFTK® is widely used for monitoring MXF XDCAM files, editing metadata or extracting essence material. Its powerful tools allow you to generate MXF XDCAM compatible files, along with the metadata required for easy storage on Optical Disc.

Additional functions facilitate the extraction of portions of content and generation of MXF XDCAM subclips.

The XFReader application plays back all MXF XDCAM files, whether in IMX or DVCAM full quality format or MPEG4 proxy.

MXFTK® has been adopted by manufacturers seeking to add MXF XDCAM capabilities to their products and by integrators who wish to improve their productivity when using MXF and metadata.

OpenCube's video/IT expertise and its innovative MXF solutions help you set up seamless production workflows, ensure genuine interoperability in MXF exchanges, and make the most of the MXF XDCAM technology.

Products supporting the **XDCAM System**:

MXFTK® v2.0 Toolbox

OpenCube Technologies

Contact

Phone 33-(0)-561-285-606
Website www.opencubetech.com

The above information has been provided by OpenCube Technologies.



Quantel has been at the forefront of the use of digital technology as a creative tool for the last 30 years and has an enviable reputation as a pioneer in broadcast technologies. Alongside a thriving post production business, in the past handful of years it has been the major player behind the deployment of digital integrated news and live production systems around the world. Quantel's customer base stretches to all points of the compass and includes such high profile companies as the BBC, ESPN, TVNZ, ITN, Seven Network, and NRK, as well as a host of smaller local and regional broadcasters.



sQ

The Quantel sQ system is a completely scalable, open and cost-effective method of tapeless production for news and sports programming. Its heart, the sQ server, provides a proven solution for HD, while unique Frame Magic™ technology gives 100% utilization of storage and error-free media management. The ergonomic sQ editing interface meanwhile scales comfortably from simple viewing stations to fully featured craft editors.

XDCAM System Compatibility

The Quantel editing and graphics systems all can access the XDCAM System directory as stored on the XDCAM System disc, directly view and select content, and utilize within the edit session.

If the Quantel sQ or Newsbox server system is part of a system, XDCAM System content may be ingested directly, and this becomes instantly available to all connected edit seats. All connection and communication is via the standard network interface.

The XDCAM System integrates into the well accepted workflow offered by the Quantel edit seats and sQ/Newsbox server systems.

Products supporting the **XDCAM System***:

sQ View, sQ Cut, sQ Edit, sQ Edit Plus, Paintbox, Paintbox gQ, sQ, Newsbox, Newsbox HD and eQ.

* Using v2.1 or later application software.

Quantel

Contact

Phone 44-(0)-1635-48222
Website www.quantel.tv

The above information has been provided by Quantel.

RHOZET

Universal Media Transcoding

Rhozet Corporation is dedicated to providing universal media transcoding solutions that meet the demands of professionals serving the broadcasting, VOD, web and mobile markets. Rhozet Carbon Coder and Carbon Server products provide a fast, flexible, and scalable architecture, supporting virtually all current media formats including Sony's XDCAM System. The Carbon family also provides a host of auxiliary functions such as standards conversion, logo insertion, subtitling, audio channel mapping and more. Rhozet products offer an intuitive user interface, as well as an XML-based SDK for complete programmatic control.



Rhozet Carbon Coder

Carbon Coder is a universal transcoding application that facilitates the transfer of media between acquisition, editing, playout, archive, Web, mobile and more. Supporting all major formats (currently more than 40), Carbon Coder is continually updated to accommodate new formats. Carbon Coder can run as a stand-alone application or as part of a multi-node, fully-automated rendering farm under the control of Carbon Server.

XDCAM System Compatibility

The latest release of Rhozet Carbon Coder supports both the import and export of Sony XDCAM System media files. These files are supported in both SD and HD flavors. This conversion process also includes the creation of MPEG-4 proxy files for previewing applications. The conversion from XDCAM System media allows for utilizing XDCAM System source in any number of editing applications and playout devices.

Products supporting the **XDCAM System**:
Rhozet Carbon Coder 2.5

Rhozet Corporation

Contact

Phone 1-408-246-3338
Website www.rhozet.com

The above information has been provided by Rhozet Corporation.



SeaChange® International provides digital video systems that are changing television. Its powerful server and software systems enable television operators to provide High Definition and Standard Definition broadcast playout services and deliver greater efficiencies for tapeless workflow environments. With its Emmy-winning MediaCluster® technology, thousands of SeaChange systems are helping IPTV, cable, broadcast and satellite television companies to reliably store and play-to-air multiple channels of HD content.

SeaChange is headquartered in Acton, Massachusetts and has product development, support and sales offices throughout the world.

SeaChange MediaClient™ Codecs

SeaChange MediaClient is an innovative broadcast software-based codec for real-time Standard and High Definition television systems. It supports MPEG-2, DV25/50, and IMX30-40-50 coding up to 50Mb/s with MXF wrapping. HD is also supporting XDCAM HD format. The MXF files are stored natively on SeaChange's on-air Broadcast MediaLibrary™ (BML) e or ex. MediaClient IMX and DV software codecs are fully compatible with Sony's XDCAM System and e-VTR, supporting bi-directional MXF file exchange. SeaChange will also support the new XDCAM HD format.

SeaChange MediaGateway Software

Standard FTP transfers of MXF content from XDCAM SD or HD to a SeaChange MediaLibrary can be initiated by third-party automation or media management control while the SeaChange MediaGateway software monitors, validates and registers any incoming Sony MXF files. "Network ingest" speeds up the time to playout by using SeaChange MediaClient software codecs. No transcoding or conversion required. The SeaChange MediaGateway also supports "network ingest" of IMX/D10 files to the previous generation of on-air SeaChange BMCs.



XDCAM System Compatibility

SeaChange® MediaClient™ and SeaChange MediaGateway™ ensure complete interoperability with Sony XDCAM systems. SeaChange Customers can now quickly and efficiently deploy tapeless workflows from ingest to playout by combining Sony XDCAM System and SeaChange Broadcast technologies. More importantly, preserving the image quality entirely. XDCAM System Proxy files can also be browsed by using the Sony PDZ-1 Proxy Browsing software on the SeaChange Media Gateway.

Products supporting the XDCAM System:

- SeaChange MediaLibrary (BML) 24000e/ex and 6000ex
- SeaChange MediaClient 4004, 4012a-R and 4020 SD Codec
- SeaChange MediaClient 5110, 4102 and 4201 with XDCAM HD option
- SeaChange BMC with IMX Codecs
- SeaChange MediaGateway with API allowing data transfer between XDCAM and SeaChange MediaClient & MediaLibrary e/ex

SeaChange

Contact

North America
Phone 1-978-889-3097
Website www.schange.com

The above information has been provided by SeaChange.



Silex Media was formed in 2006 and is solution provider and prime contractor for the Broadcast and Media market, enabling Broadcasters and professional media companies to transition from traditional tape based environments to parallel digital workflows, and to transition from a “Radio and Television” market to an “Internet and Telco Market.”

The company is made up of the people, resources and know-how of SGI’s Broadcast Business Unit in Europe, and that team has been responsible for more than 30 major broadcast installations throughout Europe, including Danish Broadcasting Corporation (DR), SWR, SR, CIRIS, Czech TV, France Televisions and EuroNews. Silex Media has offices throughout Europe and is 100% backed by SGI Japan, whose investors include NEC, SGI, Sony and Canon.

Silex Media concentrates on delivering IT-based solutions, systems integration and workflow services to broadcasters in Europe. Its highly-integrated, data-centric solutions address such areas as digital news production, server-based editing for news and sports, play out automation and consolidation, content management and archive integration.



Silex Media Hydrogen

Silex Media offers solutions and services that migrate traditional video-centric media production infrastructures to an open and efficient data-centric environment. Silex Media’s Hydrogen framework includes media-archive middleware, editing optimizations and hierarchical storage management components for digital archives that result in significant time-to-air improvements, better archive connectivity and infrastructure that allow for a high degree of parallelizing production. From small workflow enhancements to a complete media lifecycle management system, Silex Media’s Hydrogen helps you to accelerate your workflow. Quicker, better.

XDCAM System Compatibility

The XDCAM System by itself already has many format and carrier benefits. The XDCAM System together with Silex Media products and expertise enables true workflow benefits: being able to work in a much faster and more efficient way than before. Valuable time is saved where it counts: Silex Media’s Hydrogen product set delivers intelligent ingest. Integrated with Sony’s PDZ-1 tool, it is now possible to edit high resolution material from the XDCAM System shortly after the transfer started. No longer the need to wait until the transfer is finished, plus no need to worry about the creation of all the necessary files needed for editing, like wrapping, audio extraction, or edit lists. These steps now take place automatically, in parallel and in the background.

The Hydrogen framework not only offers Media Acceleration functionality, its Media Lifecycle Management middleware based component can be used to manage the complete lifecycle of the asset.

The XDCAM System together with the expertise and products of Silex Media, make it possible for broadcasters to significantly extend the benefits of implementing a digital production platform and transform a slow ‘video-centric’ workflow into an effective data-centric infrastructure.

Silex Media

Contact

Phone 49-(0)-89-45125490
Website www.silexmedia.com

The above information has been provided by Silex Media.



Sobey Digital Technology Co. Ltd was founded in 1997. Its major business is development, manufacture, sales and service in professional TV media facility and system. Sobey is the largest professional company in demotic broadcasting facility industry, providing system technical solution and implementing system integration. Sobey's registered capital is 80,000,000 RMB, and its net capital is more than 100 million RMB. In April 2003, Sobey cooperated with Sony, the famous international company, and became a Sino-Japan joint venture limited company.



EditMax7



EditMax2000

**Sobey
EditMax7/EditMax1/
EditMax2000**

Nonlinear Editing System, are specially designed for program production, from news editor to postproduction. Editmax7, Sobey's new generation desktop system, a high performance NLE editing engine uses Windows desktop style, provides multiple operation modes, and supports flexible system transmutation. It makes use of open structure and CPU+GPU as the kernel. The Editmax1 non-linear editing system adopts an advanced "CPU+GPU+IO" system architecture instead of the traditional professional board. **Editmax 1** can provide more powerful and efficient functions for editing workflow. **EditMax2000** is a mobile nonlinear editor, which is suitable for efficient field editing.

XDCAM System Compatibility

Sony's XDCAM System + Sobey EditMax system, it's an integrated program editing workflow based on XDCAM non-linear medium. It can reduce editing time and cost and realize miraculous improvement in editing efficiency.

After on site shooting, an editor can edit Proxy AV data by using Sobey Mobile Station in the field. When the Proxy Editing is complete, the Sobey system can ingest only the necessary parts of high-resolution material which were selected in the proxy timeline. The editor can take high-resolution timeline to studio and on air, or render the timeline to stream file such as WMV to transfer by network for emergency news.

Products supporting the XDCAM System:

Editmax 7/Editmax 1/Editmax 2000

**Sobey Digital
Technology Co.,Ltd**

Contact

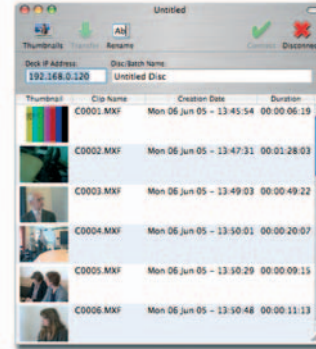
Phone 86-028-85121111
Website www.sobey.com

The above information has been provided by Sobey Digital Technology Co.,Ltd.



Softron is a private company that was founded in 1982 to address the computer needs of the broadcasting industry. Its activities range from systems integration to software development and marketing. Softron is focusing its products and services on the Mac® (Apple®) platform.

Its main office is located in Brussels, Belgium, at the heart of the European Union. It also has an office near Chicago, Illinois for the North American market. Its customers include various regional and local TV stations worldwide and famous Belgian broadcasters like RTL-TVi, RTBF and Liberty TV.



MXFConverter

“MXFConverter” is a software application for MacOS X that transfers, converts and prepares MXF files for use with Final Cut Pro 4 or 5. It supports both DVCAM and IMX-based discs and offers many options not found in competing products such as: quick thumbnails for deciding which clips to import, simultaneous multiple imports from multiple decks, fast transfer/conversion speed (around 2.5x realtime), clip renaming etc... “MXFConverter” exists in two different versions: a network version that directly connects to the XDCAM System deck through TCP/IP (Ethernet) and a file-based version that converts existing MXF files to QuickTime movies.

XDCAM System Compatibility

MXFConverter supports all XDCAM System decks which have an Ethernet connection. Transfer speed will vary according to the deck’s specifications. Currently tested decks are PDW-1500 and PDW-V1.

Other decks should be supported but have not been tested yet.

Softron Media Services

Contact

Phone 32-2-771-73 71
Website www.mxconverter.com
www.softronmedia.com

The above information has been provided by Softron Media Services.

SONY® Vegas®

Vegas 7 software provides all the tools needed to edit proxy and full resolution HD and SD XDCAM MXF files natively, no transcoding required. Vegas 7 supports all HD and SD XDCAM compression types (MPEG HD, IMX 30,40,50, DVCAM), all framerates, all aspect ratios, multichannel audio, and essence marks. All proxy and full resolution XDCAM System source file types can be mixed in a single timeline, edited, and transferred back to XDCAM via i.LINK, Network FTP, or SDI.



Only Vegas 7 software combines real-time DV, SD, and HD video editing with unrivaled audio tools to provide the ultimate all-in-one environment for creative professionals. With its unique, visual approach to digital video and audio production, Vegas software delivers tremendous power, incredible speed, and maximum productivity in an uncomplicated, efficient platform.

Key features include: HDV™ Support, unlimited tracks for audio and editing, and over 190 video effects and 175 2D and 3D transitions.

XDCAM System Compatibility

- File access mode (FAM)
- i.LINK transfer
- Ethernet transfer
- XDCAM Explorer pane
- Essence marks support (all types)
- Proxy editing
- Master to disc (all formats)
- SD Import (all modes supported, native .MXF editing)
- HD Import (all modes supported, native .MXF editing)
- Multichannel audio read (all supported channel configurations, full/proxy resolution)
- PDZ list import, with proxy/full resolution conform capabilities
- Conform proxy timeline to full resolution (with file trimming if supported by deck)
- Conform all selected proxy media in Vegas database to full resolution
- SD Render (all modes supported by format)
- HD Render (all modes supported by format)
- Multichannel audio write (all supported channel configurations)

Sony Media Software

Contact

Sony Media Software
1617 Sherman Avenue
Madison, WI 53704

Phone 1-800-577-6642
Website www.sony.com/mediasoftware

The above information has been provided by Sony Media Software.



SWE-DISH Satellite Systems is a world-leading supplier of mobile satellite communications equipment and related services for broad-band applications. The company supplies major broadcasters, armed forces and disaster relief organizations with compact and quick-to-air satellite terminals for live transmission of video, data, internet and voice content from anywhere in the world.

The customer base includes broadcasters such as CNN and BBC, telecom companies such as British Telecom, Ericsson and Teliä, disaster relief organizations and military organizations such as NATO, Danish Defense, the Swedish Defense Materiel Administration (FMV) and the US Department of Defense.



SWE-DISH IPT Suitcase

The SWE-DISH IPT Suitcase is the world's most compact and quickest-to-air satellite terminal. The IPT Suitcase with its one-person operation and exceptional technical performance allows live 4 Mbps broadband transmission from virtually anywhere in the world.

The IPT Suitcase is used for everything from ordinary satellite news gathering (SNG) to IP-over-satellite.

XDCAM System Compatibility

The SWE-DISH IPT Suitcase enables fast field-based transmission of DVCAM, MPEG IMX and MPEG-4 proxy files shot using XDCAM System Professional Disc camcorders in file mode.

More than this, SWE-DISH + the XDCAM System enable sending of non-video based materials related to the footage, including Edit Decision Lists, metadata, or associated PC files such as still imagery and documents. This is carried out simply by linking camcorder to laptop (via the i.LINK connector in File Access Mode or Ethernet) and connection of laptop to SWE-DISH IPT Suitcase. Just select the files for transmission in Windows Explorer or an FTP browser, then drag it to the dish for transmission.

Transmission of information in this manner opens up exciting new possibilities in ENG. For example, field-based reporters can carry out their pre-edit and send an EDL with only the high resolution materials that are required. Proxy materials might be sent quickly to support this, enabling the recipient to request alternative high resolution materials for the final edit.

SWE-DISH Satellite Systems AB

Contact

Phone 46-(0)-8-728-50-00
Website www.swe-dish.se

The above information has been provided by SWE-DISH Satellite Systems AB.



Telestream simplifies multiformat workflows in today's IT-centric video environments. The company's products bridge format and platform gaps, enabling convenient, cost-effective, file-based media access and exchange between incompatible systems. Solutions range from simple component-level Flip4Mac digital media products to powerful enterprise-level FlipFactory transcoding workflow automation applications. Telestream streamlines workflows for the world's most demanding media and entertainment companies, corporations and government institutions.

Telestream products provide fully file-based workflows for exporting and ingesting content to and from Sony XDCAM System products.



Flip4Mac XDCAM Import Component



Sony XDCAM to Apple Final Cut Pro
Fast, efficient file transfer

- Plug-in for Final Cut Pro
- Imports MXF media from and exports IMX content to Sony XDCAM Systems
- Ingests into Final Cut Pro systems, ready for DV or IMX MPEG editing
- Fast network access and transfer

XDCAM System Compatibility

FlipFactory workflow automation applications provide a robust import/export digital bridge between XDCAM System devices and legacy equipment in broadcast and post production facilities. FlipFactory can take XDCAM MXF source files and *flip* them into virtually any format for automated, scalable ingest into leading editing systems, such as Avid and Apple Final Cut Pro, media servers from Grass Valley, Pinnacle, Omneon and more, as well as streaming formats for Web or desktop review and mobile formats for handheld devices. Similarly, FlipFactory can take source files from legacy devices and transcode them into MXF for playout on any XDCAM System.

If simple file transfer between XDCAM Systems and Final Cut Pro editing systems is all you need, then the **Flip4Mac** XDCAM Import Component provides a cost-effective file compatibility solution. Flip4Mac imports content from and exports to Sony XDCAM Camcorder and PDW-1500 Compact Deck and Final Cut Pro real-time editing software.

Products supporting the **XDCAM System**:

FlipFactory v4.1 and higher

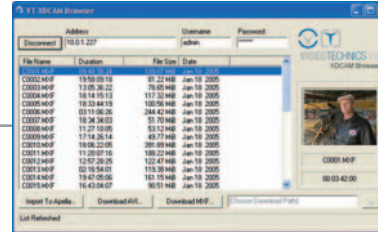
Flip4Mac XDCAM Import Component v1.0.1 and higher

Telestream

Contact

Phone 1-530-470-1300
Website www.telestream.net

The above information has been provided by Telestream.



For over a decade, professional broadcasters have relied on the cutting edge, IT-based technology from Video Technics Inc. for producing, manipulating, and managing multi-purpose media in a cost-effective workflow, using off-the-shelf components with non-proprietary file formats. Video Technics has consistently delivered the most feature-packed and affordable solutions to the broadcast industry. Video Technics' Apella™, Aprisa® and NewsFlow™ solutions streamline the entire production process from automated ingest, to edit, playout, and archive and feature automatic proxy creation, and unparalleled asset management.



NewsFlow™

NewsFlow is a proven IT-centric end-to-end tapeless digital newsroom solution. Tailored for your facility, NewsFlow offers robust multi-channel ingest/playout servers, central NAS/SAN storage with comprehensive asset management, low resolution proxy editors/browsers, and nearline/offline automatic archive solutions. Enhanced media security provides user profiles and storage quotas.

The VT Adobe Plug-In, embedded within any Adobe Premiere Pro workstation, allows editors to browse and edit shared content, then export the revised media directly from the Adobe timeline which is ready for immediate playout on any Apella server. Getting content to air has never been this easy, fast, and affordable!

XDCAM System Compatibility

Video Technics provides native interoperability with Sony's XDCAM System using plug-in technology embedded in both Adobe Premiere Pro and the VT Proxy Editor™. Users connect directly to any XDCAM System device on the network to browse and sort by ID, date, duration, and thumbnail picture. Both MPEG IMX and DVCAM media types can be imported. Files are automatically wrapped in either an AVI or MXF file container without transcoding which preserves the original file quality while transferring files much faster than real-time. Drag and Drop media directly into the Adobe Project Bin or import to a NewsFlow SAN or NAS for shared access and playout on any Apella video server channel.

Products supporting the XDCAM System:

- Apella LCS v3.2
- Apella SDS v3.2
- Apella HDS v3.2
- VT Proxy Editor v4.2
- VT XDCAM Browser Plug-In for Adobe Premiere Pro v2.0

Video Technics Inc.

Contact

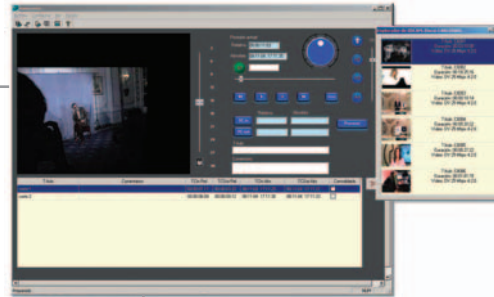
Phone 1-404-327-8300
Website www.videotechnics.com

The above information has been provided by Video Technics Inc.



vsn-JustEdit was established in 1990 in Barcelona, Spain. Its highly professional and experienced Broadcast and IT team has dedicated over 10 years to the development of the vsn system - Video Stream Networks.

vsn is built on standard network infrastructure and open compatible software platforms, and allows migration to fully digitized and automated environment. vsn solutions include News Production, Media Asset Management, SD and HD video servers, Playout, Master Control, Graphics generation, Automatic Ingest, Legal Compliance, Web TV News, and new business like SMS TV. It's already On-Air in over 400 TV Channels.



XDCAM System Compatibility

The XDCAM System-compatible vsn modules allow transparent integration of the XDCAM System disc's content (hi-res files, EDLs, icons and soon proxies) into the vsn solutions either for upload (filing) or download (print-to-disc). The firewire connection enables pure file transfer instead of video encoding-decoding processes, so native quality is guaranteed.

Products supporting the XDCAM System:

- vsnscenes (all versions)
- vsnarchive (from 1.8.4 onwards)
- vsnairnews MXF (all versions)
- vsnmatic multiformat playout

vsnscenes - a pre-editing solution, integrated with XDCAM System technologies in version SD - HD. Compatible with MXF files, for news room productions, master control room and archive system.

Features:

1. Read and write to disc information for FAM or network mode import and export all metadata process. (In the Network Mode supports 2 clients making this process simultaneously PDW-1500).
2. Read EDL from XDCAM System and preview native proxy (over 30X)
3. XDCAM Disc Management:
 - A. Change the name of disc and all sub clips, without deleting native information
 - B. Edit new project with preview over Data-proxy and import selections over 2.7X
 - C. Import all metadata clip from disc
 - a. Name
 - b. Format
 - c. Bit rate audio and video
 - d. Duration
4. Distribution:
 - A. To storage Center, over gigabit Ethernet and fibre channel
 - B. To other Non Linear editing system, wrapping MXF to AVI DV or other standard file
5. Integration with Vegas 7.0
(vsnscenes allows saving the new project made over proxy as Vegas EDL)

Contact

Phone 34-937349970
Website www.vsn-tv.com
www.vsn.es

The above information has been provided by VSN.

SONY®

XDCAM™
Professional Disc System

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