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For additional information about the applications profiled in this booklet, you can refer to the individual partner's website or go to the Tektronix Video and Networking Profile® Application Developers website:

*www.tek.com/VND/Showcase/ApplDev/*

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**Automation**
Abit Limited . . . . . 1
Advanced AudioVisual Systems (AAVS) . . . . . 2
Advanced Remote Technologies, Inc. (ARTI) . . . . . 3
Alamar USA, Inc. . . . . 4
Aveco . . . . . 6
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## APPLICATION DEVELOPERS BY REGION

**Americas**


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**Europe**


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Aveco . . . . . 6
Brauch Elektronik GmbH & Co. KG . . . . . 7
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*www.tek.com/VND/Showcase/ApplDev/*

## PRODUCT DESCRIPTION

Abit is a leading supplier of television transmission automation and media management systems. The full functionality of Profile is employed when it is selected to provide caching facilities as part of an Abit automation installation.

Abit's systems meet the primary requirements for automation in today's television: they are powerful and feature rich, yet rugged and reliable. The hardware and software architecture allows systems to be scaled from simple single-channel installations to complex, multi-channel operations. Above all, they provide a very high degree of resilience, recognizing the critical importance of transmission automation. There are two major product lines: **presentit**, a flexible automation package for single or multi-channel operations, and **showit**, an ideal entry-level starting point for a growing television station.

Each is capable of providing integrated control of the complete range of equipment found in a typical transmission area, including routers and switchers; character generators, stills stores and logo inserters; disk systems, servers and archives; VTRs and cartridge libraries.

Virtually every automated transmission network today employs mixed media: a combination of video and audio tapes (and, increasingly, data archive tapes) together with disk-based servers such as the Tektronix Profile. A core part of the Abit automation philosophy is to optimize the use of tapes and servers, minimizing the number of transfers while ensuring that key material is always ready for instant access. Such media management frequently involves background transfers between tape libraries and servers, calling for the multi-channel capabilities of Profile.

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## PRODUCT DESCRIPTION

Profile has been integrated into standard broadcast automation systems from AAVS based on a multi-station architecture and PC platform, running under Windows NT (the **Acube** range).

The **Acube** software range allows for the management of any automated process in TV centers. Using the facilities of the Acube-Engine kernel, designed and conceived to interact globally with operators, equipment and data, the range includes:

**Acube-On Air** for automated single/multichannel broadcasting

**Acube-Remote** for surveillance and local or remote back-up facilities for TV centers

**Acube-Record** for automated recording of external feeds

**Acube-Copy** for automated copying of audio/video sequences.

Each application software controls the equipment as regards automation or tools for manual operation, handles the Beta video machines and all the system's functions, provides "live" or "auto" operation, with short or repeated sequences handled by server.

Combining a DIVA MKV videocart system with a Profile video server gives this system unprecedented flexibility. While keeping operating costs strictly to a minimum, it allows continuous broadcasting of all kinds of program elements, whether recorded internal productions or incoming signals.

The Profile video server provides all the flexibility necessary for easy and efficient handling of short sequences, whether live or previously broadcast. Its recording and management facilities allow short sequences to be compiled for ease of subsequent broadcasting.

Scanning of the playlist identifies those sequences whose duration requires them to be transferred. Transfer is carried out in the background. Acube-On Air then broadcasts the sequences from the audiovideo server.

## PRODUCT DESCRIPTION

**Media Master Venue Automation**: combines the ARTI Network architecture with a comprehensive suite of Windows applications to provide a complete facilities and performance control package. Virtual control console management is combined with a powerful sequence engine to provide unparalleled master control.

**Media Master News/Sports Automation**: News/Sports Highlight Package combines the cost-effective ARTI Network Bridge technology with a suite of comprehensive Windows applications to provide an extremely efficient way of logging numerous events simultaneously and then creating frame accurate playlists to "air" over an Ethernet environment.

**Media Master IMD/Tally Automation**: Intelligent Monitor Display (IMDTM) is a state of the art, ARTI Network compatible, message and tally display system designed for use in studios and production facilities. The slim, efficient sixteen character under monitor displays can be easily installed over existing monitors, offering flip-up access to controls and saving space.

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## PRODUCT DESCRIPTION

Alamar provides integrated end-to-end station automation solutions. Alamar automation fully interfaces and reconciles with a facilities traffic system, manages all media within the facility using the Media Manager software package, manages the playback and recording of all materials within a facility, and interfaces with all broadcast-related devices on a real time, frame-accurate basis.

**MC-2095 Automation System**: The MC-2095 is a multi-channel and multi-tasking system. It is a PC-based automation platform and permits up to ten independent system "log-ins" and accommodate up to sixteen multi-user terminals. This product can handle up to 32 independent on-air channels and control up to 256 broadcast devices. It can also manage 500 playlists each with 9,999 events. This solution is flexible as it supports peer-to-peer networking. Its modular approach allows the product to be scaleable to the requirements of a facility.

**MC-900**: The MC-900 provides centralized automation control of all record and playback devices and program sources, with off-the-shelf interfaces for most broadcast related equipment. This is a PC-based solution that supports up to 2 multi-user terminals, up to 4 on-air channels, and control up to 64 broadcast devices. The system can manage 250 playlists with 9,999 events per list.

**SPS-100**: The SPS-100 is a satellite resource management system. It provides broadcasters with an automated control system that interfaces to a wide variety of satellite positioning and receiving equipment. It is available as a software option for the MC-2095.

**TSC and NDP-100**: These are Alamar solutions for time shifting. They are tools to automatically record and delay the playback of program materials. TSC is available as an option for the MC-2095 and the MC-900; while the NDP-100 is a stand-alone net delay system.

### Key Product capabilities and differentiators

- scaleable to broad range of facility sizes
- interface with a broad range of broadcast equipment, such as Tektronix Grass Valley
- widely used in the industry

## PRODUCT DESCRIPTION

**The Avalon Archive Manager (AAM)** product family is a true archive management system providing the features and functions necessary to manage a complex, dynamic video archive environment. The AAM products allow video applications to monitor, move, and distribute video assets between Profiles and physical archive libraries.

AAM does more than just provide connectivity between disk-based video storage and digital data tape libraries. It provides a complete management environment for archived video. With the advent of products like AAM, even the definition of "archives" is changing rapidly. Video material, which was previously stored as tapes that had to be physically retrieved, can now be accessed electronically. This means more than simplifying operations; it means that video material is more accessible and, therefore, more valuable.

There are currently two AAM configurations supported for Profile environments, depending on how the Profiles are being used. The two configuration choices are not mutually exclusive. In fact, AAM can support both configurations simultaneously to allow multiple departments and functions within a broadcast operation to share archive resources using different configurations.

### Direct Connect Architecture

For the direct connect architecture, the AAM is controlled by an automation system, which presents the user interface to the archive. The automation system initiates all archive activity by sending commands to the AAM. For this configuration, the Avalon components include the AAM Client, the AAM Data Mover Interface, and the AAM Core.

### Central Server Architecture

In cases where a large number of Profiles need access to the archive, the use of a central archive server for the distribution of material may be in order. One example is the use of Profiles in a newsroom operation. Details of the components provided by Avalon and Tektronix in this type of system are shown in the Central Server Architecture diagram below.

The central server architecture can consist of two separate networks. Edit stations can be networked to a group of Profiles which serve as points of video ingestion, distribution, and playout. The second network connects the Profiles to a central server. The central server, provided by Silicon Graphics, is used to store video data. The Profiles are connected via Fibre Channel to the central server. The system as a whole is easily expandable to include more networking capacity, Profiles, edit stations, central disks, and data tape libraries as needed.

## Avalon Consulting Group

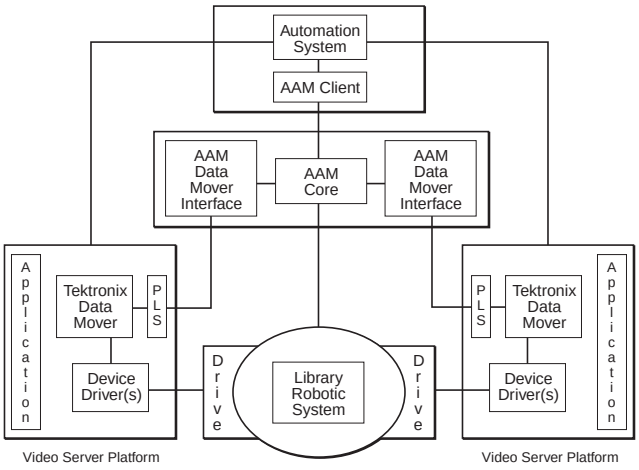

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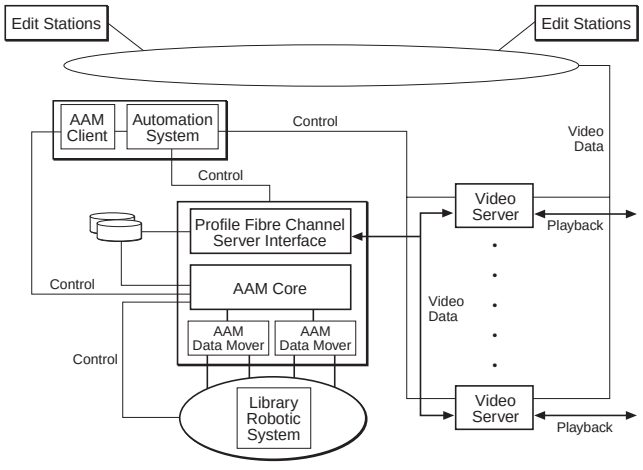
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## DIRECT CONNECT ARCHITECTURE




## CENTRAL SERVER ARCHITECTURE



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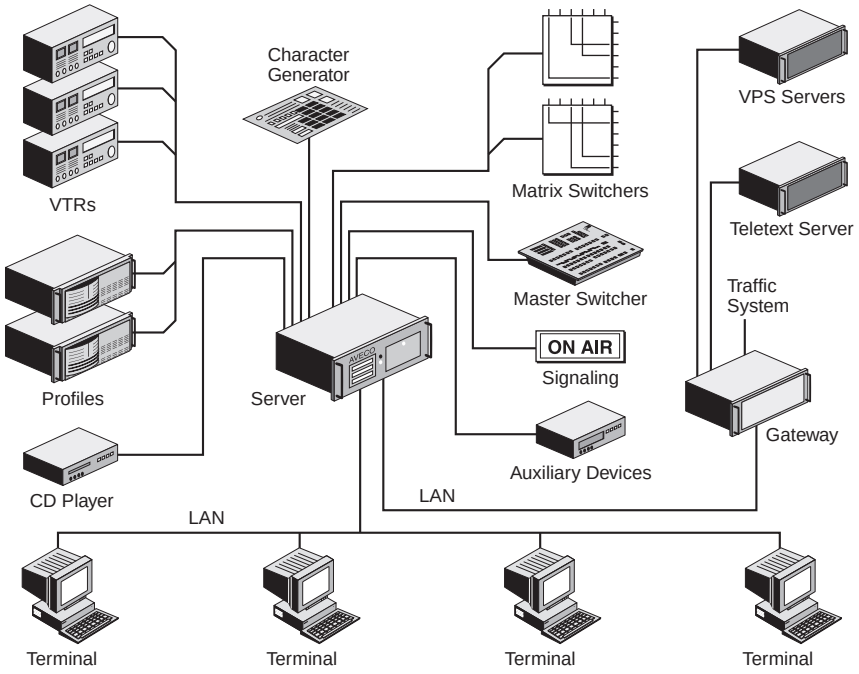
## PRODUCT DESCRIPTION

Besides control systems for dubbing studios, cable head-ends, and regional TV stations, AVECO offers a line of control systems for continuity studios, ranging from PROCON Tektronix Profile control system to ASTRA master control automation. The systems are designed to be modular and scaleable to allow for rightsizing to the customer's needs as well as for later expansion. They are built on open platforms and can be connected to the station information system for data exchange or even for direct control from remote workplaces.

**PROCON** is a Profile control and clip management system, which can be easily installed into existing studios. Its main purpose is to prepare and broadcast blocks of clips. It can be as simple as one computer with one Profile and one VTR attached, or as large as a network of workplaces controlling several Profiles, VTRs, matrices, master switchers and other TV technology.

**ASTRA** is the master control automation system. It controls all the devices essential for broadcasting along with the playlist. Works fully automatically, but also allows the operator to trigger events manually anytime or to do last minute changes in the playlist. It is able to control broadcasting on multiple channels simultaneously.

## ASTRA



## PRODUCT DESCRIPTION

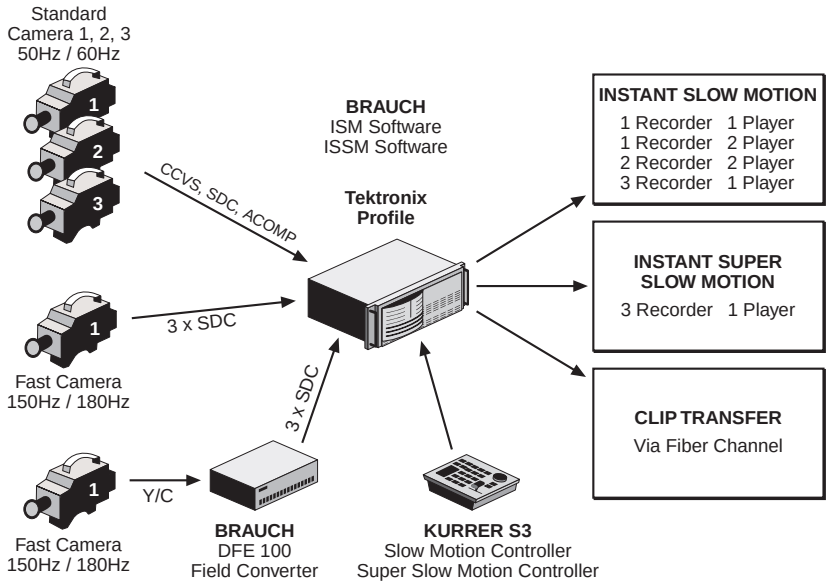
**Super Slow Motion and Slow Motion Profile Application:**

**Instant SlowMotion** continuously records up to 3 sources, operator is able to select which replay is sent to the playback channel. This is the only slow-motion system that performs automatic clip transfer via Profile Fibre Channel – allowing multiple units to transfer clips to a Profile based edit system (such as Editware) for editing highlight packages.

**Instant Super SlowMotion** works with Super Slow Mo cameras (from Sony, Panasonic, and Philips) to record 90 frame/sec super slo mo on a Profile, thus replacing a Sony Super SloMo VTR.

- ISM/ISSM Application Software and Hardware add Super Slow Motion and Slow Motion to the existing Profile functionality
- Instant Slow Motion or Instant Super Slow Motion with ongoing record process
- Six hours storage time with Broadcast quality (ISM), two hours (ISSM)
- Operation Control and mode select by KURRER S3 Slow Motion Controller
- For camera systems with no built in field converter, BRAUCH recommends the DFE100 Super Slow Motion Digital field Converter
- Clip transfer via fiber channel in addition to ISM/ISSM record and playback processes

## SUPER SLOW MOTION/ SLOW MOTION PROFILE APPLICATION





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## PRODUCT DESCRIPTION

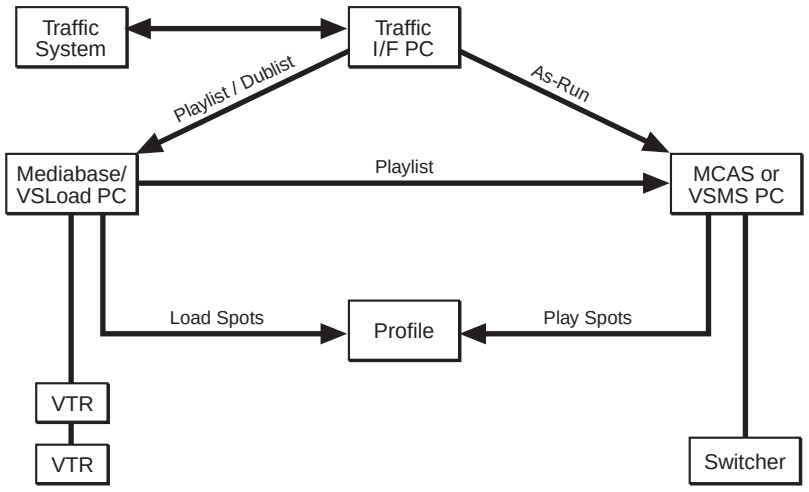
**MCAS-III**: adds total computer control of your playback operations. Through direct connection to an extensive range of master control devices, MCAS-III applies automatic switching for a smooth, clean on-air look. Plus, a network connection to any traffic system allows a hassle-free transfer of playlists, dub lists, and as-runs. MCAS-III is the solution for total automation combined with the closed loop features.

**Closed Loop**: this option offers an easy playlist transfer from your existing CJDS traffic system to a variety of cart machines or video servers. As the commercials playback, the cart machine or server creates the as-run log for another simple transfer to the traffic area. The loop finally closes with automatic reconciliation of that as-run log. This eliminates the need for manual input of the cart machine or server playlist. Plus, manual reconciliation becomes a thing of the past. The Closed Loop solution saves time and minimizes the amount of human intervention.

**Video Server Playlist Manager (VSPM)**: provides a FUI interface for automating playback of clips from a video server. VSPM gives you the following benefits:

- Converts any CJDS into a VSPM-readable MCAS-III format schedule and any Columbine traffic schedule into a VSPM-readable Sony Betacart/LMS format playlist
- Creates a Pull List of scheduled spots not already available on the video server
- Automatically dubs spots from tape to video server
- Controls on-air video server playback; allows editing of on-air schedule from any approved PC workstation on the VSPM network
- Creates and reconciles as-run log.

## COLUMBINE JDS BROADCAST AUTOMATION



## PRODUCT DESCRIPTION

Crispin Corp produces a complete line of modular software automation packages designed specifically for the Tektronix Profile. These inexpensive modules can be combined to create systems ranging from a cost effective single channel playout system, to a large multi-channel system with automated fibre channel transfers. All modules can run directly on the Profile or over a LAN.

**RapidPlay for Profile - Single Channel**: Designed as a single channel playout sequencer for commercial insertion or news clip playout. Popular Drag and Drop techniques have been employed to allow for easy creation of a playback sequence or playlists can be imported from traffic systems. Since this software runs directly on the Profile, it can also be used as a backup to large automation systems. Rapidplay gives Profile a competitive advantage over other servers in cost conscious situations.

**RapidPlay X for Profile - Multi Channel**: a multiple channel version of the RapidPlay.

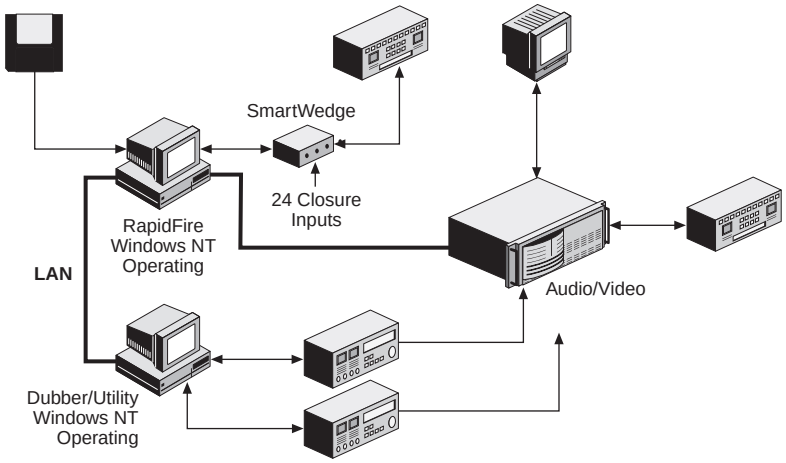
**TurboBrowser for Profile**: designed to run locally on a Profile or over a LAN. TB displays a list of all clips contained on a Profile in a given folder of the Profile. With TB you can "protect" clips from deletion. A single click of the mouse on a clip in the TB will cause a still frame of the clip. A double click on the clip causes the clip to play from the beginning.

**ClipPanel for Profile**: software module for playing, searching, and trimming clips that are on a Profile. Runs directly on a Profile or can be run on a Windows NT workstation connected to the Profile LAN. Control and edit any clip on any Profile on the LAN. Create multiple clips from a single clip. Transfer a slip from one Profile to another via Fibre Channel. Use TurboBrowser to drag and drop clips onto the ClipPanel's control panel. Connect a SmartWedge and GPI command any function on clip cutter.

**Dubber for Profile**: for controlling a Sony BVW series tape machine and a Profile for purposes of recording commercials, promos, interstitials, etc. onto a Profile. Has all the features of ClipPanel.

**Bar Code Reader for Dubber**: allows you to scan bar code labels from Sony BetaCarts. This provides for automated dubbing without typing in clip names and durations.

## TOTAL COMMERCIAL PLAYBACK SOLUTION




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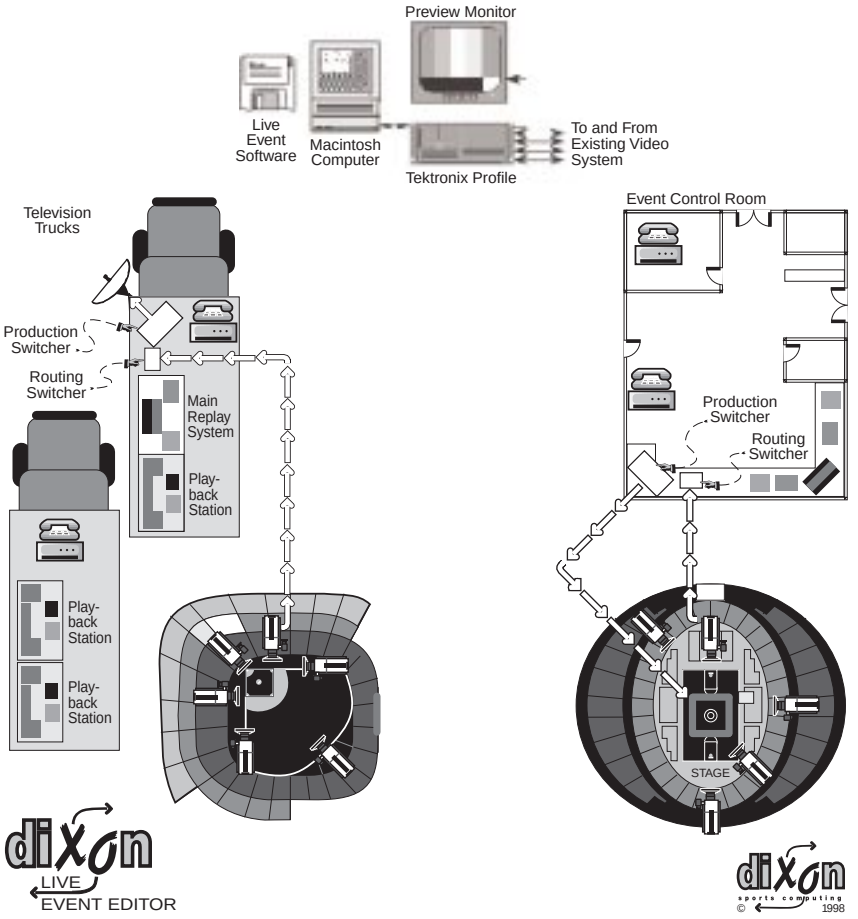
## PRODUCT DESCRIPTION

**Dixon Sports Editor for Football**: The Sports Editor for Football is a four channel system that lets you digitize four games simultaneously and create four cut-up tapes simultaneously with multiple copies of each cut up. It's better than having four standard non-linear systems in one box. The Sports Editor can be expanded to include Dixon Coach's Stations that can support all coaches simultaneously. The coach can control his station by a clicker or a keyboard and can access any video stored in the system. The coach can share the video he is reviewing by routing his video to another coach's monitor. A system designed specifically for football that is not a modified production editor. The open system architecture ensures that the system remains state of the art. Because of this open architecture, the Sports Editor is the cornerstone of the complete Dixon Training Facility.

**Dixon Sports Editor for Baseball**: This four channel system lets you log a game in progress, recording up to 3 channels while the fourth channel can be used for playback at a dugout viewing station. Make four batting and pitching tapes simultaneously for your players in just minutes after the game. Instantly access any camera angle of a pitch or an at-bat during the game. Start to replay a pitch before it crosses the plate. Before or after the game, four coaches and managers can access different video from four different places at the same time.

**Dixon Live Event Editor**: Instant playback of hundreds of clips, thousands of stills, and multi-angle slow motion. This four channel system plays back and records clips, stills, and slow motion on four channels simultaneously. 1800 stills can be stored in one minute. Clips and stills can be organized using individual log sheets.

## LIVE EVENT EDITOR



## PRODUCT DESCRIPTION

DNF manufactures several hardware control panels for operating the Tektronix Profile. In addition to basic control panels, there are software options that give the units more functions such as E-mem interface, playlist options, and key&fill software,

### Profile Control Solutions

**200 Clip Instant Access System**: Instantly load a video clip at the press of a button. Gives the operator single button access to 200 pre-recorded video clips while allowing them to quickly & easily assign and re-assign video clips to 200 Shotkeys. Ideal for any application that requires instant access to pre-recorded video clips: News Shows, Game Shows, Sports Shows, and backup in case of Automation System failure. Consists of the ST300-SSM, ST320 SHOTBOX, and SHOTLIST software

**400 Clip Fast Access System**: Allows operator fast access to 400 pre-recorded video clips. Quickly & Easily assign video clips to 400 locations in the SHOTLIST. Organize clips for fast access, when needed. Enter a 1, 2, or 3 digit cue number to access any location in the SHOTLIST. Then LOAD, and PLAY. Ideal for On-Air Master Control, News Shows, Game Shows, Awards Shows, and Sports Shows. Consists of the ST300-SSM and SHOTLIST software.

**200 Clip Fill & Key Instant Access System**: Instantly load a FILL clip & KEY clip at the press of ONE button. Press PLAY to play out simultaneously, in sync on two video channels.

- Simultaneously control 2 video channels on PRO*file*.
- Quickly & Easily assign and re-assign 200 FILL & KEY clip pair to 200 SHOTKEYS. Consists of the ST300-SSM, ST320 SHOTBOX, and FILL & KEY software. COMING SOON: Profile Native Protocol implementation provides continuous FILL & KEY looping, in sync.

**Playlist Playout System**: Quickly and Easily create a stack of clips for playout. Play clips one at a time or in a group. Insert BREAKS between groups. Trigger from an external GPI or press the PLAY key on the control panel. 4 Line display shows current running time and next 3 clips to play.

Edit the stack while playing out. Ideal as backup for Automation System, in case of failure. Consists of the ST300-SSM with 4 line display and Playlist Playout Software. Uses Odetics or Louth protocols. NATIVE Protocol version coming soon.

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## PRODUCT DESCRIPTION

**Slow Motion Controller with T-bar**: Control up to 4 Profile channels. Quickly and Easily mark and recall 100 cue points per VTR. All cue points are retained when powered down. Designed for demanding sports production. "T" bar or detented wheel for Fast & Easy slomo-ing. Small, space saving desktop unit that is simple & easy to use. Consists of the ST300-SSM. Orderable with or without T-BAR

**Peripheral Bus Interface Option for the ST300**: NOW, the GVG 4000 Production Switcher can load and play clips on the Profile!! Use the EMEM LEARN & RECALL functions to automatically load a clip and play it as part of an effect recall, or timeline. Control all 4 channels of Profile individually or ganged together for FILL & KEY. Used on the EXTREME GAMES, LATE NIGHT with DAVID LETTERMAN.

**AutoEdit Interface Box**: NOW, Profile does Graphics with QUANTEL & DISCREET LOGIC. Lets QUANTEL & DISCREET LOGIC graphic workstations automatically record clips on to the Profile using the AutoEdit function. Requires only one Video Channel on Profile.

**Control Profile from a GPI**: Use a simple GPI, relay closure, or switch closure to control Profile. Control PLAY, STOP, PAUSE, RECORD, FFWD, & REWIND. Ideal for On-Air Master Control and Timer activated record or playback. Can use facility's existing Parallel Control system to control Profile, GPI Profile from DVEs, Character Generators, Production Switchers.

## PRODUCT DESCRIPTION

**Drake Multi-Channel Automation System (D-MAS)**: provides reliable fault resilient control of broadcast transmission equipment. The system architecture has been designed to ensure that D-MAS can operate simultaneously and in real time multiple-channel outputs, the broadcast equipment can be shared or dedicated to each individual channel.

**Drake Automation Cache System (D-ACS)**: the Drake Automation Cache System (D-ACS) allows fast reliable caching of interstitial or program material from VTRs, VDRs, or multi-cassette sources. This proven package controls the Tektronix Profile™ via its own native Profile™ protocol. The system will dynamically cache the required material from the nominated source.

**Drake Network Automation System (D-NAS)**: a proven control and management system that does not require operator intervention other than checking channel schedules in the event of a schedule error. This system provides automatic timed switching for program circuits at both local and remote locations allowing timed shared program channels in MPEG2 multiplex streams.

**Drake Monitoring Alarm Logging (D-MAL)**: the MPEG 2 DVB transmission signal has within its format the capacity to carry auxiliary data in addition to the video, audio and teletext services. The Drake Over-Air command system which is a module of the Drake D-MAL product line seeks to use the data high way for management of remote receiver sites. The Drake Over-Air command system has been designed to integrate with the DMV encoder/mux system, as well as at the remote receiver sites with the DMV 3000 series Integrated Receiver Decoder IRD.

**Drake Automation Interrogation System (D-AIS)**: a station automation database, linking the DAL Multi-channel Automation System (D-MAS) to broadcast equipment databases and library computer systems. D-AIS manages the transfer of material between servers, as well as being used for controlling and entering missing data into schedules.

**Tektronix Products Supported**: Profile, PLS200, M21 & M2100, SMS7000

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## Editing Technologies Corporation

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## PRODUCT DESCRIPTION

**Ensemble Gold**: Editing Technologies Corporation combines the best characteristics of disk based non-linear editing with Multi-Linear™ power and time saving features. Speed, flexibility, and an intuitive graphic representation of the time line display makes the Ensemble Gold unique. ETC's architecture allows control of up to 5 Profiles, external VTRs, virtually any external special effects or transition device, and numerous other devices. With Multi-Linear™, the speed and flexibility of non-linear editing along with the power of traditional video editing control are combined. Ensemble GOLD is the next generation of editing for the Tektronix Profile.

**Ensemble ClipCutter**: Editing Technologies Corporation and Tektronix offer a cost-effective solution for multi-channel disk recording and editing. The ETC ClipCutter, controlling the Tektronix Profile is capable of multi-station non-linear editing. Up to four ClipCutter workstations can control one Profile. Each station can digitize, edit, and play to air independent of other disk activities. There is no more cost or time effective way to edit news.

**Ensemble ClipCutter Plus**: An expanded version of the ClipCutter is now available. Still with all the features of the original ClipCutter, the ClipCutter Plus adds two more serial ports. The Plus can now control a selected channel of the Profile, an external VTR and now an additional channel of Profile can be controlled. Additionally, an external switching device or router can be added with the appropriate drivers. This mean that at one ClipCutter workstation the operator can begin recording on one channel and then as the clip is recording begin editing on another channel.

**Cut/Time**: Only ETC's Cut/Time workstation can harness the full "real time" power of the Tektronix Profile. With the ability to record two channels (Line (A) and ISO (B)), edit a channel (Edit(C)), and air a channel (Air (D)) all in real time and simultaneously. The Cut/Time is a break through in editing technology. With our exclusive AutoGrow™ feature, the edit and air list is automatically adjusted to reflect the currently recorded material. Acquisition of media is accomplished entirely in the background with no operator intervention. Speed, flexibility, and an intuitive graphic representation of the timeline and EDL makes the Cut/Time a unique on-air editing application. Tektronix Profile Professional Video Disk Recorder and Cut/Time editing expand the capabilities of the broadcast facility.

**Products Supported**: Profile and GVG Switchers

**Services Provided**: Installation, Training, and Technical Support

## PRODUCT DESCRIPTION

**VPE Editing Controllers (VPE-331, VPD-341, VPE-351)**: VPE editors are used in post production facilities at networks, post houses, TV stations and corporate/industrial, government and educational facilities. They are optimized for use with Grass Valley production switchers, other high-end digital switchers and all major manufacturers RS422-controlled source devices. Editware's new Profile NL and NLE software options give the VPE both linear and non-linear capabilities.

Tektronix Profile™ NL and NLE options offer Non-linear editing capabilities, logging, digitizing and more for VPE systems used in conjunction with the Tektronix Profile PDR-100 and PDR-200.

**Super Edit Profile NL Option**: With the NL package, the VPE editor controls one or more Profile channels with normal device control and editing functions (Jog, Play, Mark in, Mark out, etc.) along with random access seek/cue to quickly create a conventional-appearing Edit Decision List (EDL). The VPE transfers the EDL data to the Profile in the form of a play list or "movie" consisting of video, 1 to 4 audio tracks and time code. The VPE has control of the play list like a source - in effect, it is playing back the EDL in real time. The associated EDL can also be recorded in real time, greatly reducing auto-assembly time.

## Editware

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## PRODUCT DESCRIPTION

***feratel* International GmbH**. offers systems for studios in which you want to work without much staff, thus allowing to save on costs.

Our main offering is complete station control software based on NT4.0, which allows you to automatically control devices such as vision mixers and PDR200s in a station.

Furthermore our ***automatic controller*** – the software and hardware solution allows a 'one man studio' to operate totally independently allowing the presenter to switch himself on program in the so-called 'self-controller studio'.

Among our activities we plan, construct and rent telecommunication-networks (line-of-sight radio) and fiberoptic-lines.

Our panoramacameras are the technical requirement for live-transmission of panorama-pictures.

For further information please contact us personally.

## PRODUCT DESCRIPTION

**AirBoss-NT**: fully scalable On-Air Presentation System operating on Windows NT platform. Interfaces to traffic systems, master control switchers, video servers, videotape machines, robotic cart machines, logo keyers, character generators and audio cart or disk systems to fully automate a television facility presentation. Offers an easy to use, user configurable Graphical User Interface and word processor-like editing capabilities. The Frame Accurate AirBoss-NT system uses DCOM (Distributed Component Object Modeling) and other state of the art software development tools to produce a product that is rugged and flexible even under the most adverse conditions. Expandable to hundreds of channels. Fully compatible with the Tektronix Profile for major multi-channel facilities.

**SpotCacher**: the industry's most efficient video server and cache management system. SpotCacher operates on Windows NT platform and is true Hierarchical Storage Management.. SpotCacher interfaces to Video Servers, Videotape Machines, Robotic Cart Machines and Digital Tape Libraries. It can reduce initial investment costs in storage devices, especially in multi-channel installations. SpotCacher eliminates unnecessary loads and purges. It merges information from all existing schedules (current and future) for all channels before deciding what material to load into the server. It uses intelligent purging to remove only the amount of material necessary to make room for spots that must be loaded for air. It considers factors such as length of spots, type of spots (commercial, promo, PSA), expiration date, last play date, etc., to prioritize purging in the most efficient way possible. SpotCacher is fully operational in major multi-channel installations worldwide with the Tektronix Profile

**ShowTimer**: Comprehensive pre-air automation designed for program acquisition and timing. ShowTimer moves the dishes and tunes the receivers, routes the signals into the record device and tests for head clogs (if appropriate). It times the shows, not only for commercial breaks but also for internal barter spots and puts the information directly into the database to be shared with other software programs including traffic. When used in combination with AirBoss, our On-Air Presentation System, program material can go from satellite to transmitter totally unattended. ShowTimer uses it's own program acquisition traffic system to schedule recordings months, even years in advance. Fully operational in major television facilities worldwide. Interfaces easily with the Tektronix Profile.

**NewsRepeater**: 24-hour news channel automation system. Designed for use by a cable TV system or a local television station news department to provide a 24-hour local news channel via a local cable TV system, a microwave distribution system or an SDTV multicast transmission on an HDTV channel. NewsRepeater records a live newscast and automatically logs the segment timing into a database. The newscast is played back (or repeated) with the same or with newly inserted commercial breaks. It can signal many different levels of cable operators (regional, city and neighborhood) to perform their local commercial insertions. It runs totally unattended 24 hours per day, seven days per week. Fully compatible with the Tektronix Profile.

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## Generation Technologies Corporation

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### PRODUCT DESCRIPTION

Generation Technologies is currently developing a software package called **News On Demand**. It is aimed at network newsfeed services and affiliates to take advantage of the multi-channel functionality of the Tektronix Profile.

**News On Demand** would continuously record a network newsfeed on a Profile. As feeds are recorded, it would automatically extract individual clips of each news story based on text and timecode information sent by the network. At the station, a writer would be able to click on the text information sent, and cue up the associated video sent. This video could then be available for editing or playback.

This software is currently being developed for CBS Newspath, but will also be made available to other newsfeed services.

## PRODUCT DESCRIPTION

**HT224p Dynamic Disk Controller**: Organizes the recording and playback of clips (video audio and timecode) on the Profile disk recorder to maximize disk capacity usage. Rather than continuously recording one long clip (for each record channel) to the size of the available disk space and then "looping" back to the start and recording over previously recorded material, a very different approach is taken.

The recording channels are automatically organized to record several short media files (the files that make up a clip). These media files are re-used again and again until a point is MARKed. When a particular point of recorded action is "MARKED" (with its IN and OUT points - this becomes the clip) for replay, only the media files that make up that clip are saved. Several new media files are then added and again re-used until the next clip is MARKed.

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## PRODUCT DESCRIPTION

The Tektronix Profile Video Disk Recorder is able to emulate up to 4 independent logical video sources. This capability can be used to access the Profile from 4 different PC-based workstations and to record or play back video titles. For this purpose, both the Profile and the remote workstations need to be equipped with the small networking software **MiniNet** that provides the basic functionality of remote access to the Profile's resources.

The physical network will use the RS-422 connectors of the Profile. The communication data rate will not be high enough to justify the use of the ethernet capability of the Profile. The most critical part of the software, in terms of network usage, is to reflect the contents of the Profile's video disks almost immediately on all workstations. Within the present concept, the network usage issued by this task is still far below RS-422's maximum capacity.

**MiniNet** clients run under Windows 3.11, Windows 95 and Windows NT.

## PRODUCT DESCRIPTION

LandScape from IBIS is a fully scaleable transmission automation system based on a true multi-processing real-time architecture using the Motorola 68060 series of microprocessors. This system supports playout from, and caching to, one or more Profiles. Caching control is handled intelligently through playlist interrogation - items not required in the coming playlist are removed to make room for new material. This identification sequence and transfer is carried out as a background task.

The **ProfileSuite** range of modular applications offers PC based solutions to acquiring, playing-out and monitoring material across one or more Profiles:

**IBISLoad** - for automated loading tape-based material

**IBISPlay** - for playout of material in a news or presentation environment

**IBISBase** - for tracking material across a network of Profiles

**IBISMirror** - automated mirroring of material between Profiles

**Archive management** is carried out by IBIS's integrated Profile and PLS200 control system.

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## PRODUCT DESCRIPTION

**Media Scheduler**: a resource allocation and media distribution system for digital broadcast operations. It manages and controls the location and distribution of digital media from its source library through the broadcast facility to the designated playback video file server, while optimizing the use of broadcast facilities.

Components & Features: The **Media Scheduler** provides a sophisticated set of software components with an open architecture, resulting in a smooth integration with your existing system. The system includes:

- Traffic Interface
- Events Dispatcher
- Media Library
- Resource Allocation
- Automated Scheduling
- Active Device Management
- Configuration Management
- Automation Interface
- Alarm Monitoring

## PRODUCT DESCRIPTION

**ict-ControlMachine CM2**: This multifunctional room and media controller is made of robust industrial components. Thanks to its programming software ict-ControlVision, entire show sequences are easily worked out.

**ict-Touchmachine, ict-Multimedia Touchmachine**: The 10.4 inch and the 14 inch versions are interactive touch terminals with color-LCD flat screen displays which are well-suited to be used as information or control terminals. The professional authoring software, ict-TouchVision allows interactive applications to be created specially for the touchscreen.

**ict-Infomachine**: This interactive monitor touch terminal for information systems offers enormous flexibility by using several hardware equipment variations.

## ict

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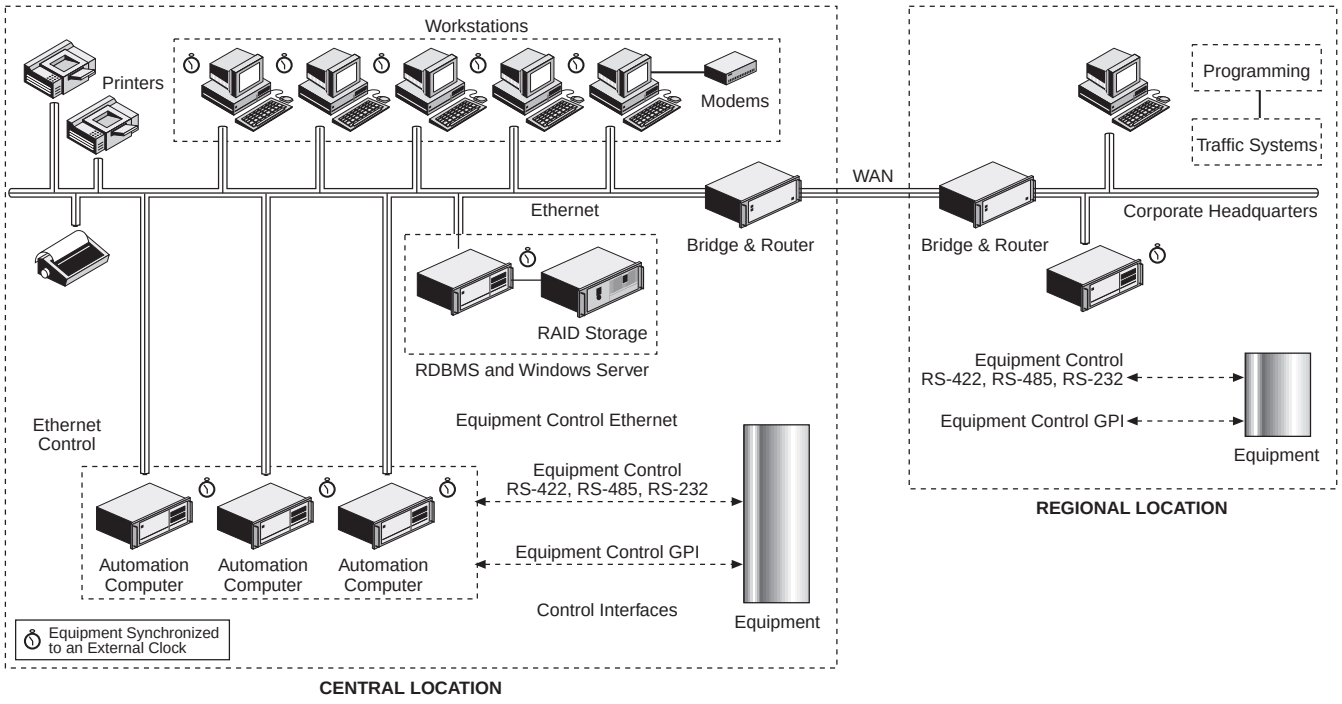
## PRODUCT DESCRIPTION

**Condor*CI**: Condor* Commercial Insertion is ideal for broadcasters looking at automating or upgrading their commercial insertion operation. It is an entry point system that is economical, flexible, powerful and provides a seamless upgrade path. The graphical interface is both intuitive and easy to use. The operator has full broadcast control over the playlist including editing for last minute changes.

**Condor*Lite**: Condor*Lite is ideal for the small or medium size broadcaster with a more demanding control environment and feature set. Functions that integrate industry standard Traffic interface and operator assisted dubbing to the video server are standard features of Condor*Lite: Condor*Lite also provides a seamless upgrade path to Condor*MC.

**Condor*MC**: Condor*Master Control tops the line of Condor family with functionality for the medium to large size broadcasters. Condor*MC incorporates a full suite of features for the complex single or multi-channel environment.

## CONDOR SYSTEM ARCHITECTURE



## PRODUCT DESCRIPTION

**COMMERCIAL INSERTION SOFTWARE PCPS V1.5** The Software Development Department of Lade Profesional S.A. offers Profile users a defacto standard in commercial insertion, multichannel broadcasting, time delay and direct replacement for VTRs. With an installed base of about 2,500 units worldwide (15 units of them are installed in our region), PCPS v1.5 is a remote control software that allows the user to control 1 to 4 channels of a single Profile through RS-422, from a serial port in an external PC.

These are the main features that PCPS (Profile Control Panel Software) V 1.5 offers to our customers:

- Remote Control for up to 4 channels of a Profile (PDR 100 or 200, with Profile Software v 1.4 or more.)
- Loading a single clip as a playlist, and play it out.
- Build a clip list (playlist) with previously recorded clips, and play it out in any time, manually.
- Insert or remove clips in the playlist currently on air, in any order and in any time, without disturbing the playout at all.
- Import from a text file, the list of the clips that are arranged to be played on-air sequentially in the same block, as a playlist (*.ply files), allowing to simply load the playlist onto the on-air window and play it directly to air with a one-touch operation.
- Erase playlist files, without affecting any individual clip in the Profile.
- Display on-screen, in a monitoring window, the progress of the playout currently on-air, including entire sequence time, on-air time progress, and the remaining time to the end of the sequence.
- Generate an "as-run log" that states what played to air, separated by channel, with the exact time that each clip was played to air and an indication about any interruption that the clip may have had.

## Lade Profesional S.A.

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## PRODUCT DESCRIPTION

Real non-linear editing is now possible with **LIFT**. The Tektronix Profile disk recorder is controlled under Profile protocol eliminating the drawbacks of the BVW- emulation. All operations with clips (name, times protection etc.) are controlled through LIFT. Clips created under Profile with LIFT are transparent to other applications on Profile and vice versa. The capabilities of the Panel Control are also reflected in LIFT. The Profile-status monitor is not necessary for normal operation.

The methods for non-linear editing are similar to other computer-based systems, but with the choice of mixing with VTRs and having access to all video and audio signals. Cuts only are possible using a single Profile channel. After pressing CUT, the OUT-position is marked, and the current clip is automatically attached after, with the match-frame as the IN-point. After defining a new IN-point for this clip, the CUT is finished. This Feature is highly beneficial for Highlight-Editing of sport-events.

Video and audio channels can be individually assigned for recording or playback. While recording on one channel, another channel can play back and edit the material just recorded without interrupting the record process. When over-recording even the material being erased can be looked ahead. A clip can be freely attached to the timeline of a channel. The same clip can be attached with different or same mark-times over and over again and also mixed with other clips. Once attached, the mark-times can be freely changed, either by marking the time, or by setting or trimming times by numbers. The result is immediately ready for play.

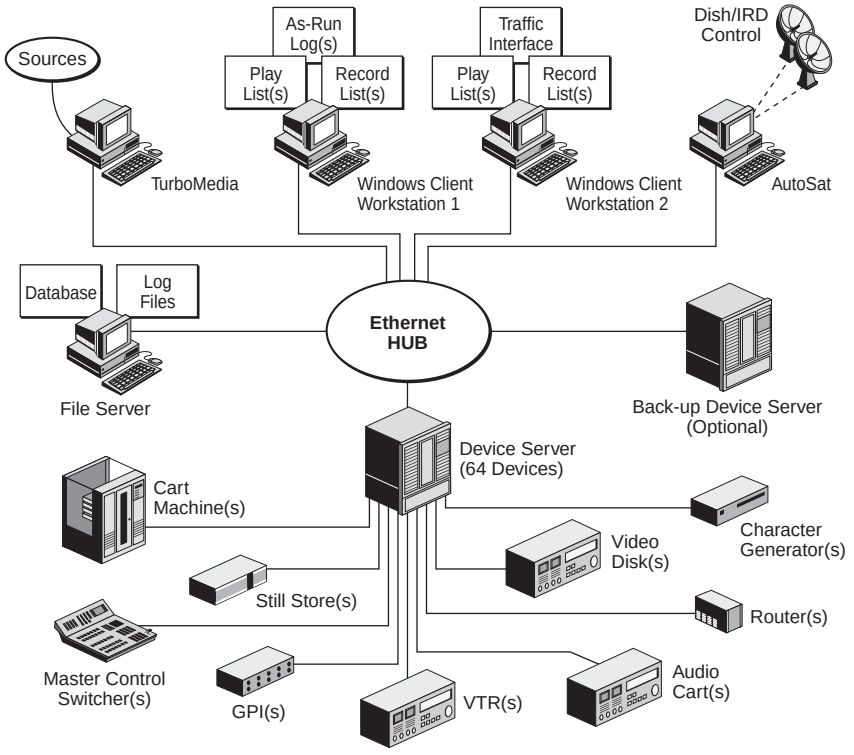
## PRODUCT DESCRIPTION

**ADC-100**: a computerized automation system that provides integrated control of all television broadcast equipment involved in the output or one or more television program outputs. This system can be used in the areas of newsroom automation, full station automation, off-line operations and commercial compilation. A full range of devices are capable of being controlled by this system, including cart machines, VTRs, still stores, character generators, master control switchers, and video disk recorders. It is a powerful, expandable and highly versatile fully developed product that has been proven throughout the world in demanding broadcast environments. The ADC-100 system consists of separate computers connected on a Local Area Network.

**ADC-50**: a system that fully automates the dubbing, management and playout of program material from video disks and VTRs, and supports a full range of GPI controlled devices. This product is ideal for users who want to initially automate spot insertion and possibly extend the system to full master control in the future. ADC-50 manages the transfer of incoming spots with a TurboMedia station. Spots are then transferred to a video disk server, at the same time creating a database of all spots. The system is capable of using a dub list created by traffic or other external system to generate record lists. This system controls the disk servers for play-out of commercial spots and VTRs for program material. This system is fully upgradeable to the ADC-100 system.

**TurboMedia**: This application is a PC based media preparation system that automates the labor-intensive task of dubbing, screening, and identifying program material. TurboMedia creates into which all incoming material is logged, including notes for labels and segments. The system is able to recall material from the database by ID, title, user data, made date, play date, and release date. This database provides for the efficient use of tapes and video disks, as well as creating a library of all information in the system.

## TYPICAL ADC-100 SYSTEM




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## PRODUCT DESCRIPTION

**Landscape Automation System** is a full featured, TV playout automation system that will control a full master control operation, integrating the server into the playout environment along with all other broadcast devices.

**Landscape Commercial Caching System** can be utilized for larger scale applications to automatically control VTRs, cart machines or tape archive systems to ensure that all scheduled material is loaded into the Profiles before being required.

**ProSuite** is a comprehensive collection of software modules designed to take advantage of the features inherent in the Profile.

**ProPlay** creates a cost effective playout system that is geared towards small to medium sized broadcasters or it can be a first building block towards full implementation of specialized news applications

**ProCache** is a powerful caching system that will import the missing clips list and prompt an operator to load them into a VTR. It will automatically cache these clips into the server and update the database and the playlist.

**ProLog** provides a way of assessing large volumes of incoming feeds. The video can be viewed, assessed, annotated and then highlights recorded and made available for air.

**ProMirror** offers automatic transfer of material from one server to another and backup based on defined categories in applications where multiple servers are tied together.

**ProBase** will allow the user to combine the database systems of all servers into a single interface allowing access from multiple media management stations on a network.

**Prism** is a suite of fully integrated products designed to provide complete command of all broadcast management functions from Planning to Playout. Prism offers one centralized set of data available to all designated users.

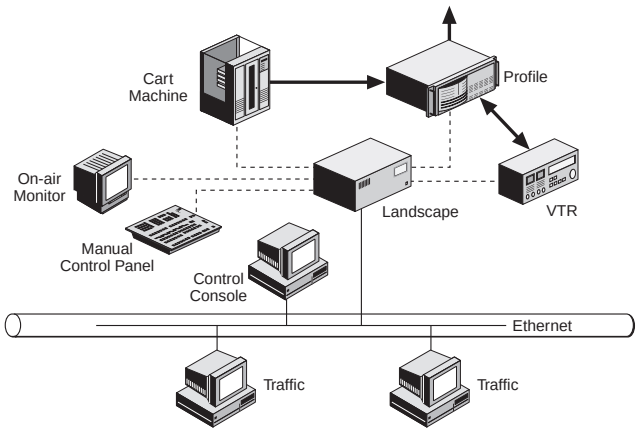
**Sales Traffic System** allows the creation and management of commercial playlists that can interface directly with Landscape for seamless front end control of your Profile server based automation system. Full integration with other traffic systems is also available

**Program Management** is an extensive package enabling the broadcasters programming department complete access and control of information from initial dealing with program providers through schedule planning and playout to post transmission reconciliation and processing.

**Operations** module maintains information on all resources necessary to execute the proposed schedules including equipment, locations and personnel.

**Media Library Management** module tracks and maintains information relating to any number or type of storage mediums (i.e. tapes, video servers, still stores, etc.)

## LANDSCAPE/PROFILE CACHING SYSTEM



## PRODUCT DESCRIPTION

**Digital Automation System (DAS)**: an extremely powerful and versatile software package. The system can be used for anything from local insertion of interstitial program material to complete television station automation. The software, when linked with a video server, the station router, and the various hardware products MicroFirst is offering is a complete solution for transmission control and automation.

**DAS Software Modules:**

**Resource Editor**: allows a user to define his system - what hardware devices comprise the system, whether they are sources or destinations, and what their associated parameters are. This information is kept in a database and is used by other components of the system during operation. With the Resource Editor, the user gives a device a name (i.e.: VTR1, Server1, Switcher, etc.). From that point on all references to that device use that name and the associated parameters are invisible to the user.

**Automation Processor Program (APP)**: the APP is the module that does all the communication and control. The APP communicates with all the other software modules to collect the data on what needs to be done. It feeds the data it is gathering from the devices to those software modules for processing and display. All communications, both LAN and to the devices, are handled via the APP. The APP knows what devices comprise the system via the Resource Editor.

**Schedule Editor**: allows the user to create a "schedule of events." It also allows the user to edit an existing schedule of events. The schedule of events that gets edited can be one that has been created by the user or one that has been read in from the station's transmission, scheduling, and billing system.

**Operator Interface Program (OIP)**: allows the user to view the real time status of the system and where a schedule is in its execution. It allows the operator to "hold" and "next" events. This allows overriding of the scheduled event by the operator.

**Machine Control Program (MCP)**: allows manual control of any device in the system. There is a MCP screen custom for every type of device in the system (i.e.: VTRs, Servers, Switcher, GPI, etc.)

**LAN Application (LANAP)**: the component of the system that allows remote work stations to be connected to the control computer to remotely run the OIP, MCP, Schedule Editor, or Resource Editor. LANAP also allows for redundant control computers.

## MicroFirst Digital Automation System

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## PRODUCT DESCRIPTION

**The NewsMaker Electronic Newsroom™**: Text-based newsroom system for building and managing programs, particularly news and magazine-type shows. A full-functionality, easy-to-learn system with archives, including tape archives, wire service receipt and management and electronic mail. Used to generate scripts, to imbed machine control call-outs, building rundowns (playlists) and manage the entire newsroom operation.

**StarDrive™**: multi-device machine control for complete automation; tightly integrated with the newsroom system's playlist; manages video and audio assets throughout the operation, from original acquisition up to playout to air with frame accuracy; a 32-bit PC-based system that frequently is used with Tektronix' Profile to manage and manipulate video assets; its relational database registers assets upon acquisition, be it from a satellite feed, or a VTR, or some other source; keeps track of the assets as they are recorded on a Profile channel; manages routers and switchers, and keeps track of the status and location of assets as they are moved and/or manipulated in the show preparation process. When a show is ready to go to air StarDrive locates the relevant assets and plays them to air with frame accuracy.

**NENLap™**: the Electronic Newsroom on a laptop; the portable version of the NewsMaker Electronic Newsroom (NEN). Take the tools of the newsroom professional with you on the road - write, edit and time scripts, take notes as you work in the field, even build entire rundowns that may be transmitted to the host NewsMaker system over a dial-up phone line.

**NENCart™**: machine control for cart machines; the machine control interface for cart machines; used with AVID Airplay, Sony BetaCart, Sony LMS, Odetics, and a number of other devices.

**NENPlay™**: machine control for character generators and still stores; the machine control interface for character generators, still stores, robotic cameras, even video disk players; the most popular devices controlled by NENPlay include Leitch Still Store, Chyron Infinit! and Max, and Pioneer Laser Recorder.

## PRODUCT DESCRIPTION

**Elefant**: Complete Slow Motion and Clip EDIT controller for Tektronix Profile Disk Recorder designed for fast access and easy handling. When response time is a premium, Elefant will make Tektronix Profile video server respond at Turbo speed. With Profile system bringing all advantages of a smart and robust platform implementing Disk recording technology (non linear edit, simultaneous Record & Replay, etc.), Elefant is the ultimate control panel to express your virtuosity. Developed in close partnership with users and Tektronix, Elefant fully exploits Profile's operational functionalities and provides:

- VTR traditional controls (JOG/SHUTTLE, VTR Replay mode, CUE, etc.)
- Virtual Sequence making from all Profile Movies (including these open for RECORD)
- Clip Editing from existing Sequences
- Replay Speed control by High precision Tbar

Most actions are accessed from a single keystroke thanks to ergonomic Elefant's operating mode, a performance that was achieved through permanent dialogue with slow motion users and editors.

**Kanguru**: Complete Clip Edit, Clip Replay and Time Delay machine for Tektronix Profile Video Server designed for fast access and easy handling. When response time is a premium, Kanguru will make Tektronix Profile video server respond at Turbo speed. With Profile system bringing all advantages of a smart and robust platform implementing Disk recording technology (non linear edit, simultaneous Record & Replay, etc., Kanguru is the ultimate control panel to express your virtuosity. Developed in close partnership with users and Profile's designer, Tektronix, Kanguru fully exploits Profile operational functionalities and provides:

- One (1) Edit Channel and two (2) Main Outputs or one (1) with Video and Key
- Virtual Sequence making from all Profile Movies (including these open for RECORD)
- Clip Editing from existing Sequences
- One (1) record channel with Spot Edit application (on this channel it is possible to Edit during the Record with the option to insert other Movies or Clip)

Most actions are accessed from a single keystroke thanks to ergonomic Kanguru's operating mode, a performance that was achieved through permanent dialogue with editors.

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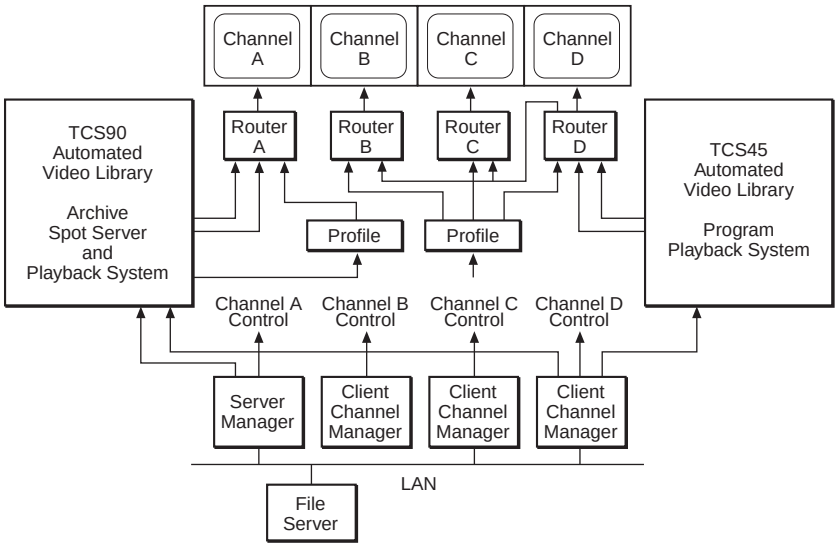
## PRODUCT DESCRIPTION

**The Roswell™ Facility Management System**: fully automates the workflow of material acquisition, preparation and presentation at broadcast television facilities. Built on the Microsoft Windows NT 4.0 operating system, this new system employs the latest software technologies including an Oracle relational database for total management of the facility's material, media and playback resources. The Roswell system controls video tape libraries, VTRs, video servers, master control switchers, routing switchers, character generators, still stores and audio devices. Designed for multichannel environments, the Roswell™ Facility Management System is expandable to hundreds of on-air channels.

**The Bowser Visual Asset Manager**: makes browsing of the entire video library available to PC workstations throughout the facility. The Bowser Visual Asset Manager is the first broadcast-industry video browsing system that allows users to access, see and hear the entire media database from the convenience of their desktop workstations. The Video Browser delivers frame accurate video and stereo audio, making content verification and precise timing, trimming and cueing available at the desktop. The Bowser system stores proxies of all on-line and archive media, enabling the storage of thousands of hours of video material.

**The SpotBank™ PRO Automated Management System**: includes a range of solutions that fully integrate network feeds, local program playback, and local spot insertion. The basic SpotBank PRO system provides single-channel spot insertion and easily scales up to full multi-channel broadcast automation. The SpotBank PRO system maximizes the efficiency of the Tektronix Profile video server through proactive management of material inventory. Since all channels access a central video server storage system, users can simultaneously access material for playback on one or more channels. The SpotBank PRO system also controls up to 24 external devices such as VTRs, routing switchers, master control switchers and logo generators. All of which provides full station automation. The SpotBank PRO system uses a fully distributed client-server system interconnected with a standard TCP/IP local area network (LAN). This allows VTR and video server resources to be shared across multiple channels. The client/server architecture uses a common database for all applications, from on-air presentation and media management to traffic integration. The system's LAN configuration allows SB-PRO to automate the entire process of transferring schedules from the traffic department to the SB-PRO system and returning as-run logs to traffic.

## ODETICS SPECTRUM™ SYSTEM




**The TCS45 & TCS90**: Odetics' automated video library systems provide the video tape storage capacity required for the most complex broadcast installations. The TCS90 provides a capacity for up to 150 cassettes to keep an entire day's programming and spots on-line and can be partitioned to support multiple program origination channels that share common inventory and robotics. The new TCS45-PRO supports the DVCPRO tape format and can handle up to 216 cassette tapes. Odetics' libraries support both small and large video cassette sizes. Plus, these automated video libraries may be field upgraded for new tape formats, ensuring long-term functionality and value.

## PRODUCT DESCRIPTION

### OmniBus: what it is and how it works

**OMNIBUS** consists of a wide range of applications for the television industry, all of which can be accessed and operated from single workstations via clear menus. These workstations, which use conventional SVGA monitors, allow simultaneous control of several different pieces of equipment. Alternatively, touch-sensitive, flat screen TFT displays may be used where space is at a premium. For some applications, hardware panels may be considered more appropriate.

A summary of the various OmniBus applications is given below.

**Tornado –** All machine control applications including:

- Clip/Tape Management Application
- Archive Manager Application
- Dubbing Service
- Cart Machines
- VTR Control

**Conductor –** All routing applications, some of which combine resource control with router control, featuring:

- Router Control Device Application
- Tie-line Management Service Application
- Local Router Control Screen/Remote Panel Controller
- Router Status Application
- Monitor Wall/Under Monitor Display Application
- Router Path User Application
- Satellite Control Application
- Additional Applications

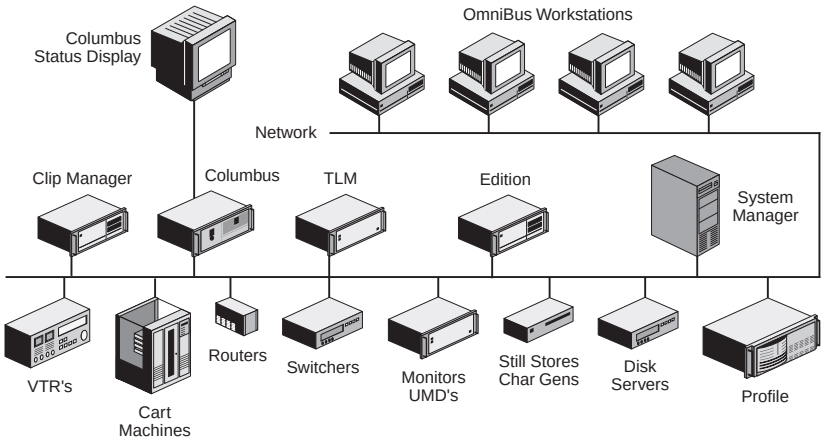
**Columbus –** A fully integrated, multi-channel station automation system responsible for everything from scheduling to control of cart machines and disk servers and through to final transmission procedures.

**Automation Solutions –** Columbus-based packages - Avon, Shannon and Amazon - that can be built to broadcasters' specific technical requirements.

**Portfolio TX –** A powerful still store that can be used either as a stand-alone product or as an assimilated facility in an OmniBus System

**EDITion –** A non-linear editor application, which allows quick and easy editing of clips, as well as control of external devices on the network.

## OMNIBUS SYSTEM EXAMPLE




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## PRODUCT DESCRIPTION

**DVCPRO Smart-Cart Library System**: The new Panasonic Smart-Cart cassette library shares the same advanced technology and sophisticated control system of the acclaimed MARC system. Sophisticated yet reliable robotics combined with high quality VTRs ensure efficient, cost-effective automated transmission of programs, commercial and News material. The DVCPRO cassettes are stored in modular bin units that hold large or medium cassettes. In the standard configuration with 2 internal VTRs, the Smart-Cart has a total storage capacity for 180 cassettes with a possible maximum playing time of 360 hours. If more VTRs are required each additional VTR replaces a cassette bin unit.

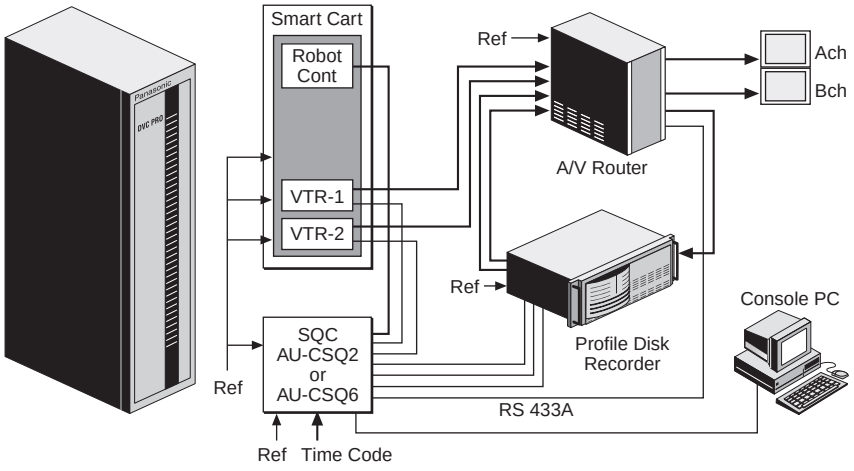
The DVCPRO Smart-Cart uses standard, unmodified DVCPRO studio VTRs (AJ-D750) and can be configured for 1 to 6 internal VTRs. It is also capable of controlling additional external VTRs up to a maximum of 14 internal/external VTRs. The internal VTRs are installed and serviced from the rear of the Smart-Cart thereby allowing VTRs to be maintained without interrupting operation of the library system. Both Windows NT and UNIX based applications software packages are available for Smart-Cart to meet a wide range of requirements.

Panasonic library systems are designed to bring a high level of integration and automation to the daily operation of a broadcast station. The robotics library, VTRs and other system peripherals are controlled and available to the user through a common interface. When configured with a Tektronix disk recorder the operational performance of the Smart-Cart is significantly enhanced. In a hybrid environment the disk recorder compliments the robotics library and when combined with suitable control software, can overcome some of the limitations arising from robotics access speed and VTR cue up times.

The Smart-Cart disk cache software controls the VTRs, robotics and Profile in downloading short duration events to disk. Events are selected for caching against a set of user selected criteria – for example duration of event, frequency of use. Cached events are then played out from the Profile under control of the Smart-Cart on-air application mixed with longer duration events or one-offs played from the VTRs within the Smart-Cart.

With this system it is possible to support two independent transmission channels, each comprising programs, commercial breaks and promotional material, from a single Smart-Cart/Profile library system.

## DVCPRO SMART-CART LIBRARY SYSTEM



## PRODUCT DESCRIPTION

Pharos Communications develops software control systems for the broadcast telecommunications industry and has developed a Profile interface driver, which can be incorporated into a variety of systems.

**Time Shifting – Pharos Video Disk Timer for Tektronix Profile**: A 1 RU standalone automation controller which can control up to 4 Profile ports. The event list can be set up from the front panel. Each event can be programmed to send out a command at a specific time on a particular day; the schedule repeats on a weekly (7-day) cycle. The Timer can be locked to analogue timecode to ensure frame accurate control. The Pharos Timer is ideal for automating repetitive tasks and is the most cost effective automation controller in the broadcast telecommunications market.

Applications include:

- Weekly unattended record & playback
- Transmission channel time-shifting
- Studio record and item play in.

**Lines Recording – Pharos Ingest – Store & Forward**: Connecting a Windows NT PC Workstation to the Pharos Timer allows schedules to be downloaded. The Pharos Ingest is designed for scheduling and automatically recording incoming material onto the Tektronix Profile. The recorded material can be scheduled for playback. Signal routing and Satellite receivers can also be controlled to complete the automated ingest process.

### Related Products

**Pharos Timers**:

- VTR Timer - compliance recording
- Router Timer – automated switching

**Pharos Pilot – Reactive control system on Windows NT Network**: Real time broadcast equipment control system designed for touch-screen control. Operates on Microsoft Windows NT, simple to configure and manage, providing intuitive graphical displays which are easy to use.

**Pharos Almanac – Scheduled process control systems**: Automates broadcast and telecommunication processes using an SQL database and networked Windows NT workstations. Each request is handled as a booking, resource management validates the booking and real time controllers provide frame accurate control. Logging and management reports are produced to check performance.

- Incoming material acquisition
- Scheduled lines routing
- Channel time shifting for NVOD applications

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## PRODUCT DESCRIPTION

Philips' automation is the most effective way of running the on-air operations of almost any broadcast, cable, or satellite facility. It offers several exclusive benefits including dynamic resource allocation, extraordinary product depth, full scalability, deferred commands, distributed processing, and remote diagnostics.

**MC-2098 Automation System**: especially suited to meet the demands of large multi-channel broadcast, satellite, and cable facilities.

**MC-2095-A**: has been developed to meet the needs of the mid to large market broadcaster.

**MC-900-A**: a low-cost, full-featured software and hardware package designed for applications that require on-air control of one to six channels with easy-to-use operator menus.

**MC-200**: a compact and affordable master control automation system "in a box."

**Optional Automation Modules & Accessories:**

- **MSL-4000 – LAN-Based Smart Machine Server**
- **TMGR-I – Traffic Manager**: a group of software interface modules used to integrate Philips Automation with third-party telecast scheduling systems.
- **SCC – Independently Scheduled On-Air Channels**: a software option adding multi-channel capability to Philips Automation computers.
- **SUM-SCN – Multi-Channel Summary Screen**
- **SRC – Sub Routing System**
- **TSC – Time Shift Channel (Net Delay-Software)**
- **SPC – Satellite Programming Channel/Satellite Manager**: automatically records satellite feeds while controlling the satellite dishes positioning equipment and satellite receivers.
- **MMGR-III – Facility Media Manager**: provides a centralized database of all broadcast media within a facility.

**Tektronix Products Supported**: Profile, M21, and M2100 GVG Routing Systems.

## PRODUCT DESCRIPTION

**DVExtreme**: our brand new 10 bit, multi-channel extreme effects 3D DVE, providing up to 3 channels of video, each with separate key signal. Unique ParticleFX and PainterlyFX provide stunning new looks including Blowing Sand, Lava Melt, Radial Burst, Disintegration, Bubbles, Stained Glass, and Beveled Glass.

**Lightning**: our new video image storage system for news and sports. Lightning uses non-compressed 4:2:2:4 digital video to deliver broadcast quality images. Lightning lets you recall and play video images in less than 1/2 second, plus you can instantly place and size the image, add borders, a drop shadow, and rotate it with 3D perspective.

**TypeDeko**: a fully featured anti-aliased character generator and titling system with all the graphic tools and real-time effects necessary to create stunning images. TypeDeko's wide range of I/O choices, resolution independence and high-quality output meet the most demanding technical specifications in the broadcast and high-end post facilities.

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## PRODUCT DESCRIPTION

**FeedBuilder®**: a new breed of automation software. It is essentially designed around an object-oriented technology; can be tailored to meet the specific operation flow of a station and to respond to its future requirements, even in the advent of a change in its operations model. It integrates with existing systems and equipment to provide a fully automated multi-channel environment. One of its strengths is its flexibility in system configuration, allowing the system to control in a real-time mode any number of type of peripherals, including Video-servers, Cart machines, VTRs, and Master Control Switchers. It supports multi-site operations.

On-Air Presentation: the quintessence of air presentation systems. It has no limits as to the number of channels one can broadcast and will operate in multi-user multi-site environments.

Distribution & Quality Control: designed around an object-oriented technology; it has the capability to automate a wide variety of master control applications.

Production: automates the production process such as recording of incoming feeds, time delay, material preparation, and quality assessment.

Facility Integration: combines on-air presentation automation, production automation, distribution and signal routing automation, and quality control – all within one unified system. All resources can be pooled within the facility and centrally scheduled.

Network Integration: can integrate operations of many facilities and make it work collectively as one single unit. Its advanced real-time operational mode enables remote frame-accurate scheduling over various types of connections.

- Multi-Channel: fully supports multi-channel operations. Both disjoint and overlapping operations are possible at the same time on various channels. The channel may be local or distant.
- Multi-Site: FeedBuilder can work as easily across the station or across the world. FeedBuilder real-time capabilities are divided in two; macro-time, which provides conflicts resolution and advanced behavior; micro-time, which handles frame-accurate real-time capabilities.
- Multi-User: An unlimited number of users can operate its various functions simultaneously, locally or remotely.
- Scalable: not a monolithic software, but a set of distinct components that will act as one. These components can be run on one system, or can be distributed across many computers. Its scalability is such that there is no limit on the number of peripherals or channels it can handle at once.
- Open System & Internet Compliant: an open system, using all readily available technology. No special systems or proprietary hardware is required.
- Object-Oriented Technology: made of intelligent programmable objects, which duplicate and enhance the behavior of each piece of equipment or component used in the operation of the station.
- Graphical User Interface: uses all the modern quality of today's GUI. All the complexity of the system is hidden from the operator and presents a simple interface, easy to learn and to use.

## PRODUCT DESCRIPTION

**ClipController**: create a rundown list for the program and control up to eight devices for the playback. Devices may be classical VTR's or modern HDR's. The program switching could be done with a simple router or more effective with a video/audio mixer. ClipController automatically manages logo generators, still stores or safety copies on a VTR. Up to 3600 events per day could be implemented in a daily rundown list. The ClipController concept is modular and could be configured for example as a spot insertion system or as a 24 h running program automation with a second channel for local window.

**Random Access Remote (RAR)**: handles clips on the Profile with only a push of a button. RAR manages all four channels separately or linked together for fill and key operation. The clips (a single frame or a complicated sequence of clips) could be selected by drag-and-drop to a button from an integrated database. They could be fired by a mouse click on the menu button or an optional hardware button panel. An extra software tool, BatchCutter, allows copying to video and audio footage from tape to disk or vice versa automatically by a batch file.

**Sport Access Server (SAS)**: offers the combination of a network linked database and one or more Profile's. Developed under precondition of sports live broadcasting, SAS records the live feeds on the Profile and a journalist can create virtual clips by operating a networked PC. On another channel the director could replay items of the virtual clips as a slow-mo or a highlight editing. Archive footage is available from the database, selected by a powerful search engine and loaded as a clip in the Profile. This system will be useful for any event using archive footage and producing parallel new footage, as in sports, political elections, game shows, song contest, etc.

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## PRODUCT DESCRIPTION

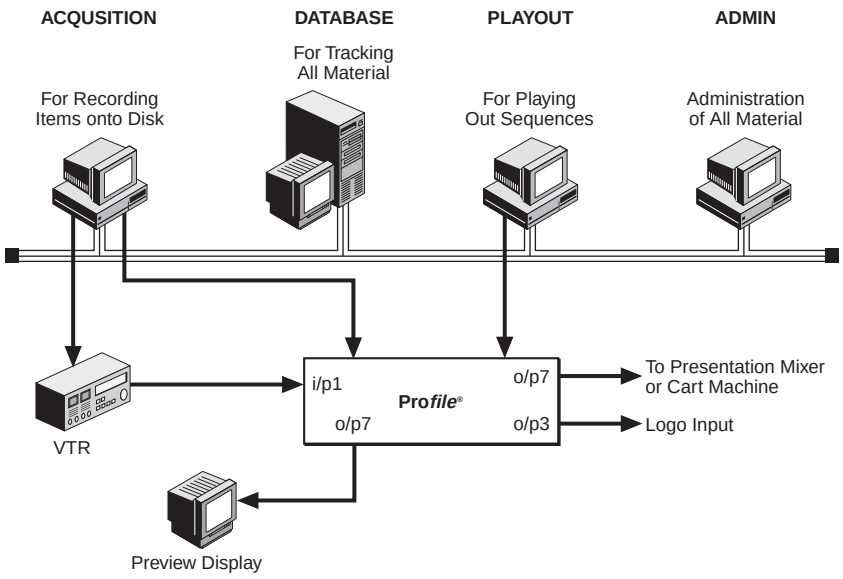
**Compass Automation**: Single channel presented real-time frame accurate automation system comprising real-time hardware control platform with interfaces to most broadcast plant. Uses Windows NT front end and provides networked links to traffic / MIS systems. Interface to MUX and associated digital transmission equipment is supported.

**Sextant Automation**: Multi channel presented real-time frame accurate automation system comprising real-time hardware control platforms with interfaces to most broadcast plant. Uses Windows NT front end and provides networked links to traffic / MIS systems. Interface to MUX and associated digital transmission equipment is supported.

**MAPP**: Media Management, Hierarchical Storage Management system provides a complete media management system based upon industry standard Windows NT SQL database and industry standard networking. The system is used to provide interface to video servers and associated products such as Fibre Channel, Archive, WAN, Video Gateway, Live recording, Cache, etc. MAPP provides a complete global WAN system with provisions for metadata and long haul signaling. The system links seamlessly in to the MAPP hierarchical storage management system to provide a desktop browse system – MAPP Media Browse, a frame accurate Windows based streaming media browse system providing up to 25 simultaneous logged on terminals.

All the above systems are provided as completely modular systems with the ability to tailor certain aspects to suit the customer requirement.

## MAPP – THE BASE SYSTEM



## PRODUCT DESCRIPTION

**GRAPHIC TWINCLIP™** is the first digital animation recorder that uses a video server, Profile, as a platform. For the first time you will be able to record frame by frame 32 bit graphic files.

**GRAPHIC TWINCLIP™**, associated with Profile, eliminates all of the inconveniences of actual disk recorders, such as limited time recordings, difficult interface during post-production... Above all, the software offers all of the extra advantages: record and playback of the video and key signal in the same clip, interface according to SONY BVW-75 protocol.

**Clip Editor** allows video sequences to be automatically digitized from a VTR when using the Profile's RS-422 ports in controller mode. For better organization the user can store the digitized video clips in folders logging the original reel number, in and out timecode values, a captured icon and a description.

**Graphic Sequencer** breaks up digitized video sequences into an enumerated series of graphic files. These extracted files can be used in video paint or DTP programs, and enable 3D programs to create rotoscoped sequences.

**Graphic Animator** creates MJPEG video sequences from enumerated series of graphic files, coming from paint or 3D programs (frame by frame shooting). Direct conversion keeps the perfect quality of the image. If the graphic file contains alpha information (32 bit files), GRAPHIC TWINCLIP™ can store this key signal in a twin channel.

The two channels are automatically and completely synchronized so that only one clip needs to be started at play back time. Frame by frame editing of existing clips is also possible.

**Movie Editor** edits using video clips that have been either digitized or created by the Graphic Animator feature. Mark In, Mark Out and speed changes are possible for each clip. The movie can be used like any other video clip (even in another movie), without physically creating a new clip consuming disk space.

The clips in a loaded movie can be instantly played without any delay, which is especially beneficial in live broadcasting. Clips are displayed by their icons and can be launched by a mouse click or function keys.

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## PRODUCT DESCRIPTION

**SIGNUM Bildtechnik** is offering powerful digital video systems for use in television and broadcast applications. The SIGI+ system family was designed only with digital serial video interfaces, according to CCIR601 and supports 16:9 standard too.

**SIGI+** includes:

**SIGI+ Still store and sequential systems** are able to handle clips, video sequences and stills, using uncompressed or compressed CCIR601 format for storage. 1, 2, 3 or 4 channel systems, including linear keys, integrated digital mix-wipe modules and a interface to production control systems support easy integration.

**SIGI+ sequential PROFILE systems** using Profile video server for datacompressed storage of image clips. SIGI + supports multi-channel control of the Profile video server. This includes fiberchannel data transmission and use of M-PEG2 compression. Its recording and management facilities allow sequences to be compiled for ease of subsequent broadcasting.

**New windows based user interface SIGIStation** for digital video environment now includes full control of the Profile videoserver and a comfortable link to external systems (Quantel, SGI, MAC) for data import and export. In the graphical user interface, clips and images are represented by image icons, which can be defined interactively. Drag and drop functionality provides all the flexibility necessary for easy and efficient handling without the need for specific user training. Playlists include image icons too, to support a preview functionality . The possible printouts are structured like a story board to provide comfortable worksheets for discussion and control.

**SIGI+ MEDIAarchive** is a powerful media archive including an ORACLE7 or SQLSERVER database. Import functions and storing possibilities for Profile clips and nearly all available image formats and a integrated link to online archives offer maximum flexibility.

**SIGI+ INTERSERV** provides a new database access via standard INTERNET BROWSER like NETSCAPE or MS Internet Explorer, using INTERNET or INTRANET technologies in the broadcast environment.

**SIGI+ editor's systems** based on Windows or MAC, use a desktop network interface to all images and clips in broadcast environments.

SIGI+ supports single Profile configurations or large, network based applications using several Profiles and other systems in a heterogeneous environment.

Although the SIGI+ standard has proven functionality in several large broadcast applications, SIGNUM Bildtechnik is ready for customer specific enhancement.

## PRODUCT DESCRIPTION

**ETERE** is an expandable system for complete TV automation.

**ETERE** automation is a new product based on the 'full caching' technology. Full caching means that all video must be downloaded to a Profile video server before broadcasting. This allows many advantages like:

- Fault tolerant systems
- Easy to use
- Easy to integrate different tape source
- Redundancy
- No VTR on air, so less VTR maintenance
- Easy, last second schedule modifications

**ETERE** is composed of software modules:

- ETERE Automation
- ETERE TV Scheduling
- ETERE Traffic
- ETERE Feeder
- ETERE Media Manager
- ETERE Shadow

**ETERE automation** drives your automation, PDR, PLS, fibre channel network, master control, logo generators.

**ETERE TV scheduling** – a scheduling program with automation-oriented extensions and a link to the shadow server.

**ETERE traffic** – a complete and flexible traffic system.

**ETERE feeder** – to manage the download from tape to disk, the automatic recording of live events, and the automatic recording without commercials for replicas.

**ETERE media manager** – drives your network. Its goal is to move the right video at the right place on time for broadcasting. It manages FC network, PDR, PDX, PRS, and PLS devices.

**ETERE shadow** – use the latest 32-bit Windows technology to archive MPEG1 compressed video linked to the high quality video inside Profile. **ETERE** shadow allows you to preview tomorrow's broadcast using your Windows PC only. Using off the shelf hardware, building a shadow server of more than 4000 hours is not expensive.

New product: **ETERE lite**.

**ETERE lite** – it's composed of **ETERE** automation, traffic, feeder & scheduling. It runs INSIDE the Profile. A simple first step to a full caching automation.

**ETERE** lite is fully upgradeable to **ETERE** Automation.

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## PRODUCT DESCRIPTION

**TVScheduler**: a software package that installs on any off-the-shelf Power Macintosh® equipped with a video output card (Video Explorer® or Targa® for instance). Once configured, the broadcasting station will run unattended for up to 1 year! The creative people will simply upload graphics, movies and sound files onto the broadcasting station and they may also change or rewrite the weekly schedule as needed.

TVScheduler will handle up to 4 video tape recorders and/or a Tektronix Profile disk recorder. Of course, an external switcher is required if using computer-generated graphics (through the computer video card). The switcher is also controlled by the software.

As the system runs, log files are generated to allow tracing of eventual problems or unexpected events. For instance, in case of a power failure, the system will restart automatically and resume playback operation where it was last suspended. It is even possible to replace the application itself (for an upgrade) during the playback of a tape or Profile sequence.

There is no limit to the number of weekly schedules that may be built in advance. TVScheduler will automatically "jump" from one week to the other and go back to the first one after the last one has ended.

Key Product Capabilities and Differentiators

1. User-friendly human interface.
2. Excellent reliability even in difficult situations.
3. Ability to automatically generate slide-shows and QuickTime® movies.
4. Cost-effective configuration with affordable software for local and small TV stations
5. Power Macintosh® -based for easy graphical creation.

**TVScheduler and Profile**: The Profile is currently handled as up to 4 separate virtual VTR controlled by 9-pin cables. In the future, TVScheduler will support the Profile extended protocol in order to read the directory of the drive itself.

## PRODUCT DESCRIPTION

**TimeLiner™ NT**: a powerful and expandable low-cost Windows NT-based automation solution designed for operations that need timed machine and Profile control, router control and integrated information management. Using the power of the Sundance Integrated Device Operations Network (SIDON), TimeLiner can grow to control a virtually unlimited number of devices and output channels. For facilities requiring advanced commercial insertion as well as machine control, TimeLiner can be integrated with FastBreak.

**FastBreak™ NT**: The FastBreak NT Digital Spot Playback System has been designed from the ground up for the digital television stations of today and the future. FastBreak integrates powerful database management capabilities with tight control of the Tektronix Profile and other devices for the most cost-effective commercial insertion system on the market. FastBreak can be combined with TimeLiner to provide a complete automation solution.

**SalesView™**: SalesView has been designed to work in conjunction with FastBreak to provide the station's Sales, Engineering, and Quality Control departments with the ability to view commercials on the Profile. SalesView takes control of one or more channels of the Profile and allows anyone with a Windows 95 or NT PC to view the FastBreak database and control the Profile to play back clips directly to a monitor on their desktop. Sundance will shortly be releasing a version of SalesView that works with any automation vendor. In addition, SalesView can also be used in non-broadcast applications such as advertising agencies and post production houses to provide a way of viewing content.

**NewsBreak™**: provides a powerful intuitive interface to control the Profile for live element playback. NewsBreak provides an easy interface to control two channels of playback from the Profile. Typically, these two channels are then fed to a production switcher so the director can effect between the two videostreams. Designed for news, NewsBreak can also be used for any presentation application where versatile live control of the Profile is required.

**SIDONTM Architecture**: Sundance's newly released SIDON (Sundance Integrated Device Operations Network) is a revolutionary machine control architecture. SIDON allows Sundance products such as TimeLiner and SalesView to control serial devices through a TCP/IP network. This means that several client applications, in many locations throughout the facility, can all share control of a group of devices. Sundance has developed a number of small applications to take advantage of this architecture including a machine control panel, and a router control panel. These applications give desktop control to anyone in a facility and extend the power of automation out of Master Control.

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## PRODUCT DESCRIPTION

**AUTOTX**: This is a broadcast automation system that allows control of various devices, e.g. Profiles, VTRs, Character generators, Still stores, Routers and Vision Mixers to provide automated program output. Also available is a playlist compiler which has the ability to import comma delimited lists output by traffic systems. The system is based on PC hardware and is highly customizable to meet the specific needs of a wide variety of broadcast applications.

A recent installation is that at CAST in London where 3 Profiles are controlled for automatic playout of Movies for a cable Pay Per View service. 2 of the Profiles are configured as main and backup. The third Profile is used for interstitials. Our caching system allows future clips to be recorded with minimal user intervention.

**Tape Library Management System**: This is a system which allows the generation of bar code labels for cassette tapes when used in Cart systems. It allows details of tapes to be entered into a database and for user bit information to be written to tapes. This package is PC based and is customizable to allow, for example, import/export of tape details from/to other systems.

**Timecode Reader Cards**: This is an 8 bit ISA card, designed and built by ourselves to serve the needs of our own products, but also available to OEMs and end users. Three versions of this card are available, with the ability to read Longitudinal Time Code (LTC), to detect Video Reference and to provide a PC compatible RS422 port. A software developers kit is available plus a DOS TSR and Windows 3.11, 95 & NT programs which keep the PC clock locked to Station timecode.

## PRODUCT DESCRIPTION

**APDU®-200/R Disk/Tape Automation System**: Ideal for uplink or downlink situated network time delays, pay-per-view origination with automatic repetition, program store-and-forward with program "ping-ponging", incremental delay stretch to open local spot avail times for your affiliates, swing-shift/late-night unattended downlink recording; continuous loop recording at broadcast quality for security applications.

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## PRODUCT DESCRIPTION

**Live Broadcast Assistant**: The Live Broadcast Assistant is meant to be used in live broadcast situations, usually the News. The main development goal was to provide the operator with a highly responsive system using drag and drop technology, keyboard shortcuts and a clear visual overview over the key system components. It requires a 4-channel Profile, Version 1.4.17 or higher. The system displays a set of pages, namely RECORD, BROADCAST, CLIPS and PROTOCOL, which can be selected to perform certain tasks.

**Profile Clip Manager**: a video file system browser. It may be run in parallel to other Profile applications such as the LBA or VdrPanel. It can be used to view, rename, delete or write-protect available clips, display their status, creation date, add a comment (only visible to the Clip Manager) etc.

Clip Manager can be run in the background to automatically erase clips after a certain time with or without asking the operator's permission.

**Profile Recording Assistant**: controls up to eight Sony-compatible tape machines to record a list of clips into the video file system. This application requires at least one Profile channel while it is recording. The application will wait until a channel is free and release the channel after the record list is complete.

The Recording Assistant could be upgraded to import a specific edit list format or to be remote-controlled through a network or via RS422 cables.

**Profile Spy**: is particularly useful for application developers. It may be run parallel to other Profile applications such as the LBA or VdrPanel. Spy displays the status of all available channels, the current absolute and relative positions on the time line, the remaining (estimated) recording time and resource usage.

Spy may also be used as an emergency fallback system to play out or stop clips if the main application crashes.

## PRODUCT DESCRIPTION

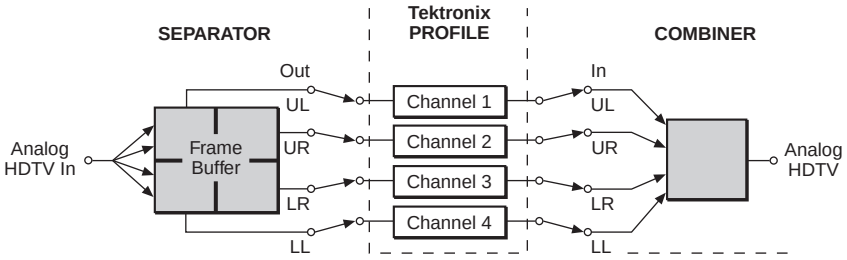
**The QUARTETT System**: In many HDTV applications signal processing as well as transmission and storage of images proves to be a problem. Reasons are either the high cost, e.g. for digital HDTV recorders, or hard-to-meet bandwidth requirements, as it is the case for real-time data compression. Under the product name QUARTETT, ViDiSys now offers a high-end system consisting of two devices, called

**SEPARATOR and COMBINER**. The SEPARATOR serves to divide HDTV live images according to the European 1250/50 HDTV recommendation into four rectangular subimages with 720x576 pixels each in real time. The analog HDTV input signal can be selected with a multiplexer as either RGB or YUV, where RGB signals are transformed to YUV representation in the 4:2:2 ratio. The signals are then digitized with double oversampling using a sampling frequency of 108 MHz. The separation into the four subimages is done in a purely digital way, where advanced filter techniques are used to guarantee best image quality, especially to av.

**The ORION System**: a high-end PC-overlay board for computers with PCI bus. With ORION two windows with live video images can be displayed at the same time in studio quality with full spatial, color (24 Bit RGB) and motion resolution. The video images are overlayed onto computer graphics using the analog-through method with a graphics resolution of 640x480 up to (optional) 1600x1280 pixels. The overlay windows are scalable in size and can be positioned arbitrarily. It is also possible to show the two video channels alternatingly at exactly the same position. In this case, with the help of polarization or shutter glasses, a stereo presentation with spectacular 3D impression can be realized. The built-in frame grabber function allows the two video images to be captured simultaneously, stored on disk, processed, and visualized again.

ORION is especially suited for broadcast applications like monitoring, video cutting and telemedicine. ORION is running in the Tektronix Profile under Windows NT. This gives you the great advantage, that the visualization hardware and the digital D1 recorder for two-channel as well as stereo visualization are integrated in one system. All Profile and ORION functions can be controlled from a single display that also contains the two monitoring windows.

## HDTV RECORDING SYSTEM




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## PRODUCT DESCRIPTION

Virage, Inc. develops leading edge products for media indexing, analysis, search and distribution. Virage leverages these breakthrough products and technologies to provide effective media management solutions across several industries, including broadcast, advertising and consumer products and services. The company was founded in 1993 by leading computer vision and database scientists from the University of Michigan and the MIT Media Lab and has an experienced management team comprised of seasoned executives from high profile organizations in the database, information technology, media and imaging industries.

**The Visual Information Retrieval (VIR) Image Engine** is a set of libraries for analyzing and comparing the visual content of images. VIR adds a visual element to the process of searching for images, and it allows users to perform meaningful searches against thousands of images long before the time-consuming and subjective process of manual keywording has begun.

**The Image Read/Write (IRW) Toolkit** is a C API that reads, writes and creates thumbnails for image files of various formats. It can also translate industry-standard image formats to and from a generic RGB-buffer format, perform format and colorspace conversions and support most image-compression options.