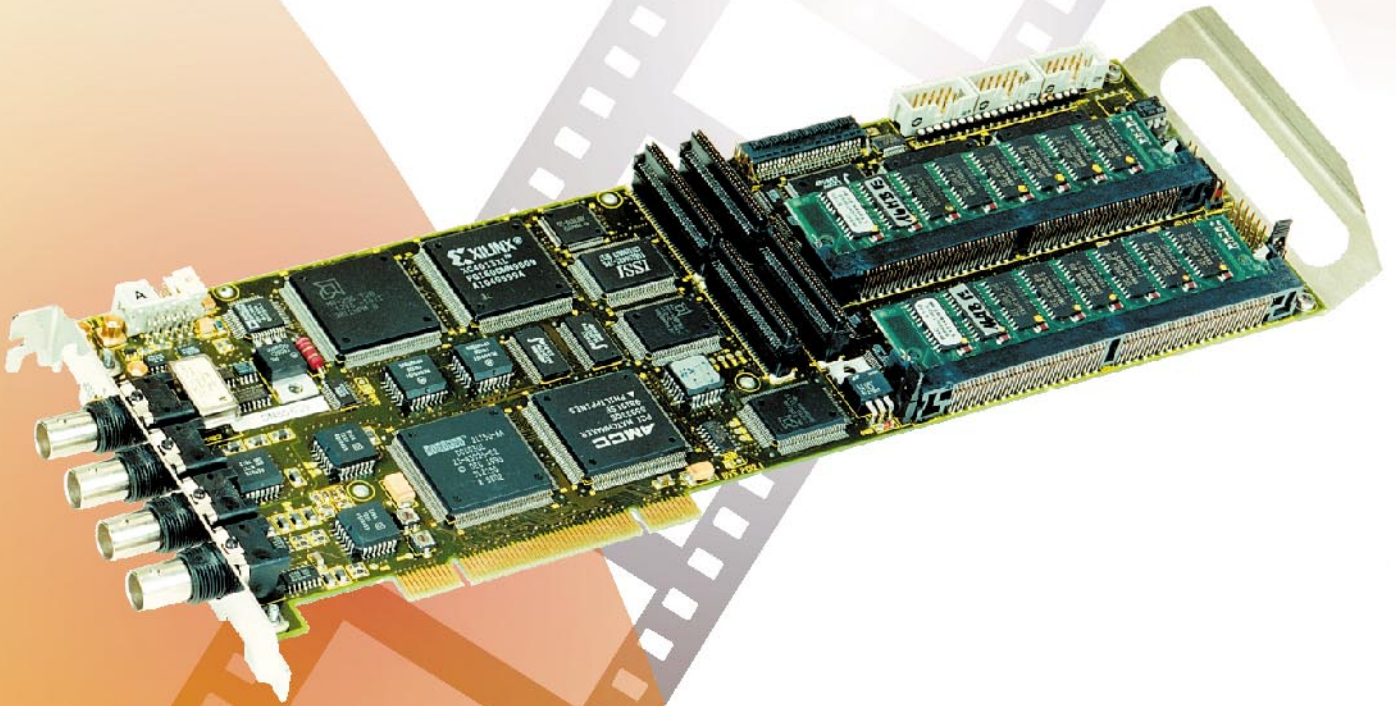




Single PCI Board Solution for Uncompressed Audio and Video Recording

ClipStationPRO



Turns Your Computer
into a Professional
Video Workstation

- ▶ Single-Slot PCI-Bus Board for Uncompressed Audio and Video Recording
- ▶ D1/D5 Multi-Standard Video I/O
- ▶ 8 bit and 10 bit Resolution
- ▶ YUV/4:2:2 and YUVA/4:2:2:4 Mode
- ▶ RGB/4:4:4 and RGBA/4:4:4:4 Mode
- ▶ Digital Color Space Converter
- ▶ Capable of Several Hours Recording/Playing Time
- ▶ Partitioned Storage
- ▶ RS-422 Output for VTR Master Control
- ▶ RS-422 Input for VTR Emulation
- ▶ Digital Serial D1/YUV I/O, Digital Serial D5/YUV I/O, Digital Serial RGB I/O (Dual Link)
- ▶ Analog Component (RBG/YUV), Composite, and Y/C Monitoring Outputs
- ▶ 4 Stereo Channels Embedded Audio
- ▶ AES/EBU Digital Audio I/O and LTC I/O
- ▶ Built-in Webserver with Password Protection for Setup and Control
- ▶ Clip Management and Non-Linear Play List
- ▶ Plug-Ins and Virtual Video File System (vdfs) as Interfaces to Various Software Packages such as:
 - Adobe Premiere & After Effects
 - in:sync Speed Razor
 - Kinetix 3D Studio MAX
 - Softimage 3D
 and others
- ▶ As Universal PCI Board Running with 3.3 Volt or 5 Volt, e.g. for SGI 320
- ▶ Easy-to-use Control Software

ClipStationPRO

The ClipStationPRO is a powerful single-slot PCI-bus board for turning a NT or UNIX based computer into a professional video workstation. At the same time the ClipStationPRO extends a computer to become a high-performance digital disk recorder for uncompressed D1 and D5 video data. Using its own disk array the ClipStationPRO provides a storage capacity of 12 minutes up to several hours. The ClipStationPRO is a compact all-in-one solution for all kinds of uncompressed video and audio post production such as:

- ◆ Graphics
- ◆ Rendering
- ◆ Animation
- ◆ Rotoscoping
- ◆ Non-Linear Editing

and many more

Standard Components

As it is based on a high-end, but standard personal computer or workstation, the ClipStationPRO offers high speed, high quality Desktop Video on a low-cost and easily expandable platform. Running under Windows NT, Solaris, Linux, or IRIX, ClipStationPRO fits into a wide range of workstations covering user requirements. It delivers a versatile video post production environment with seamlessly integrated digital disk recorder.

Variety of Video Standards

ClipStationPRO provides multi-standard D1 and D5 (true 16:9 aspect ratio) rasters at 50 and 60 Hz. Multi-partitioned video storage allows the user to work on projects in different video standards without hassle.

RGB Modes and Key Channel

An optional mezzanine card adds several I/O formats to the ClipStationPRO:

- RGB/4:4:4
 - YUV-Alpha/4:2:2:4
 - RGB-Alpha/4:4:4:4
 - Progressive-D1 standard (upon request)
- Storage may be either in YUV or RGB independent of the I/O format.

Specifications are subject to change without notice due to continuous product development and improvement.

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Stereo Audio Channels

4x2 channels of embedded audio (Audio-in-Video) are available as on digital VTRs; the audio data is stored together with the video data on the video disks. With the optional CSP-Audio/AES board the audio data can be stored on an additional audio disk providing more flexibility such as slipsyncing audio and video.

Control Software

ClipStationPRO comes with various software tools: a graphical user interface (VGUI), a built-in webserver, and a command line interface (sv).

The VGUI is the graphical user interface for ClipStationPRO. It supports control functions and data transfer between the ClipStationPRO, VTRs, and local hard disks from local and remote hosts.

The built-in webserver allows setup and configuration of the ClipStationPRO using a standard browser. This includes video modes, audio setup, sync modes, video partitions, and many more.

Alternatively, the command line interface may be used for setup, control, and automated batch processing.

Remote Access for UNIX

Remote shell (rsh) and remote copy (rcp) enable ClipStationPRO control and image transfer to and from remote UNIX workstations.

Clip Management and Play List

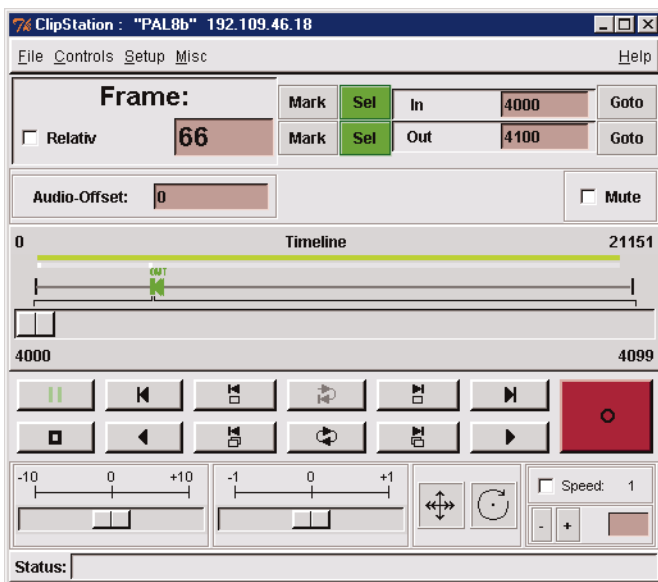
The ClipManager supports easy-to-use audio and video clip administration as well as non-linear play lists.

Application Support

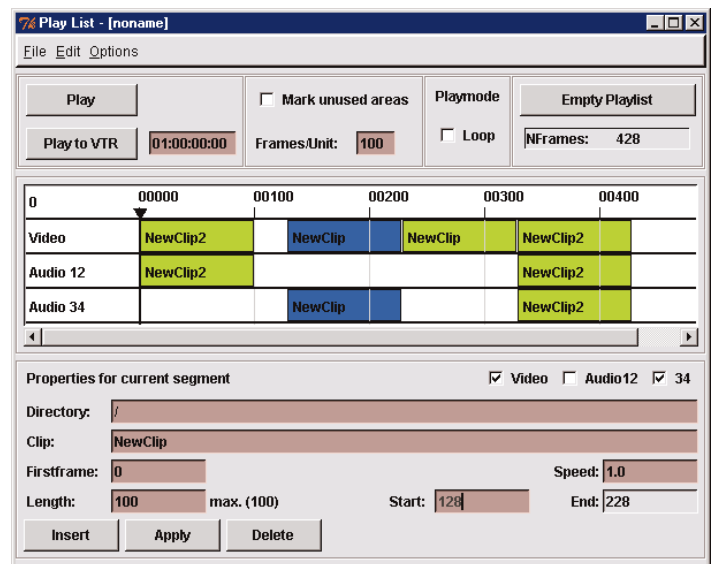
Several plug-ins and the virtual video file system (vvfs) integrate ClipStationPRO into various applications such as Adobe Premiere, Kinetix 3DStudioMax, and others.

The vvfs provides local and remote access to the video data via the host file system. The data is automatically converted between the supported application file formats and the internal storage format.

An optional SDK — a C-Library API — can be used to integrate the ClipStationPRO into your own applications.



VGUI: Main Window



ClipManager: Play List Window

Specifications

	Input	Output
Video Serial Digital 4:2:2 8/10bit Serial Digital 4:4:4 8/10bit Analog Composite Analog Y/C (S-VHS) Analog Component (RGB/YUV)	BNC (a), with loop through 2×BNC (a+b), dual link	BNC (c) 2×BNC (c+d), dual link BNC 4-pin MiniDIN 3×BNC
Key Serial Digital 4:0:0 8/10bit for 4:2:2:4 and 4:4:4:4 Mode	BNC (b), with loop through	BNC (d)
Reference Input Software Switchable Analog and Digital Ref. with Programmable Delay Digital Serial Sync. Analog Composite Sync.	525/59.94 Hz and 625/50 Hz 1 Frame BNC BNC	
Audio Embedded Audio, 4 Dig. Stereo Channels 2 Digital Stereo Channels AES/EBU	BNC (Video In) 2×XLR female	BNC (Video Out) 2×XLR male
Timecode Longitudinal	XLR female	XLR male
Data and Control Interfaces Dual UltraWide-SCSI Serial RS-422	2×68-pin, 2×40 MByte/s single-ended DB 9 female, 38.4 kbps DB 9 female 38.4 kbps	
Dimensions ClipBoard™ CSP-RGBA CSP-UWSCSI2 CSP-Audio/AES	Full-length PCI-Bus Board Mezzanine Card for ClipBoard™ Mezzanine Card for ClipBoard™ Half-length PCI-Bus Board	

Product Line

ClipStationPRO

Single-slot PCI-bus board for uncompressed video and embedded audio recording including:

Digital serial I/O (NTSC/PAL); analog and digital genlock inputs; RS-422 interfaces for VTR remote control and VTR emulation; analog monitoring outputs with timecode overlay; operating software; control software VGUI with file import and export functions; built-in webserver for configuration and setup; disk recorder protocol emulation software; driver for Solaris, Linux, IRIX, and Windows NT.

Major Options

CSP-Audio/AES

Digital AES/EBU PCI-bus board with 2x2 channels, 48 kHz/20bit, and LTC I/O for ClipStationPRO

CSP-RGBA

Mezzanine card for ClipBoard™ providing RGB/4:4:4, RGBA/4:4:4:4, YUV/4:2:2:4 modes and dual UltraWide SCSI interfaces

CSP-ClipMan

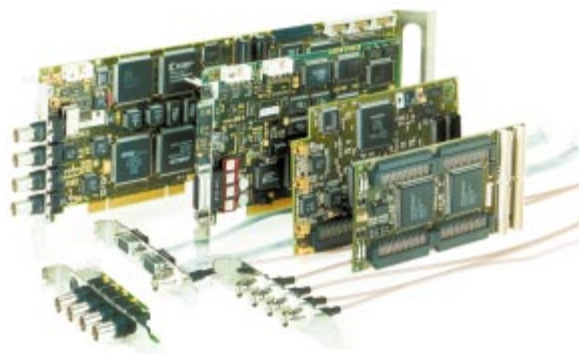
Clip/data management tool with powerful non-linear A/V play list payout assembly

CSP-UWSCSI2

Mezzanine card for ClipBoard™ to interface to internal audio and/or video disk array

A wide range of certified disk arrays for real-time access of the uncompressed A/V data is available upon request from DVS.

Solutions range from a minimum of approx. 12 minutes up to several hours of storage capacity.



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