

ClipRecorder HD



- The ClipRecorder HD is an open system
- HD Workstation for uncompressed capture, storage and playback of several hours HD and SD material in 8 and 10 bit quality.

Applications

- Digital Lab
- Multi-format Cache for Telecine Transfer
- Multi-standard DDR for HD and optional SD
- 24p Playout Server for eCinema and presentation
- Clip-based storage for SAN Integration
- Best price/performance, easy scalability
- MPEG Encoding Workstation

Open System Workstation

The dual processor Workstation Rack includes the latest generation of multi-standard HDTV I/O boards with 8 or 10 bit YCbCr or RGBA Frame Buffer.

Files captured through the ClipRecorder HD are stored into native NTFS file system. The files can be immediately accessed by any open system application.

The ClipRecorder HD supports the following file formats:

• Quick time	.mov	• TIFF	.tif
• Windows Media 9	.wmv	• Targa	.tga
• AVID-DS HD	.gen	• SGI	.sgi
• Jaleo HD	.js	• Bitmap	.bmp
• IRIDAS	.ihss	• Cineon	.cin

The ClipRecorder HD can even be used to serve captured video files to any network attached system, for applications such as color correction, non-linear editing or composing.

Hardware

Rackmount Server

- 19" Rackmount ATX system
- 64-bit/133MHz PCI Architecture
- Dual XEON4 Motherboard with 533 MHz FSB
- 2 Intel XEON4
- 1 - 16 GB RAM
- Quadro4 980XGL/128 MB RAM
- DVD-ROM 16 x/48x
- 3,5" Floppy drive
- 10/100/1000 Mbit Ethernet, RJ-45
- 40 GB IDE-HDD (7200 rpm)
- Dual Channel U320-SCSI-Controller for internal or external HDTV Disk Array
- 10 x hot swap disk bays for internal Disk Array
- Keyboard, Mouse and Country Kit
- Windows 2000 Operating System
- 19" 4HU Chase, black
- 3 x 300 W redundant Power Supply

HD I/O Channel

- uncompressed HD/4:2:2 Input & Output
- realtime colour space conversion to RGB
- 1080i, 1080p, 1080sf, 720p
- Serial HD-SDI input and output, 8 & 10 bit, BNC
- analog reference input, trilevel sync, BNC
- 6 channel, AES/EBU Audio input and output, XLR breakout cable
- 6 channel embedded audio (48kHz)

External Control Interface

- 1 x RS.422 output for deck/VTR control
- 1 x RS.422 input for external control

LTC Timecode

- input and output

Internal Storage

- Local Disk Array for 8 & 10 bit HD
- 4:2:2 YCbCr or 4:4:4 RGB Storage
- 220/440/880/1450 GB internal storage

External Storage

- 4:2:2 YCbCr and 4:4:4 RGB Storage
- dual-channel U320 port for redundant VideoRAID
- fibrechannel option for integration into HD SAN Storage Area Networks solution (instead of U320)

Drastic's QuickClip Pro



QuickClip Software

QuickClip PRO designed by Drastic Technologies is an advanced Server and VTR control software.

Server Mode

In server mode, QuickClip PRO records video and treats it as a "Clip". This means that QuickClip Pro records the video as files onto a hard drive which it can then open and close, copy and paste, move around as needed on a network or hard drive and generally handle with great flexibility.

VTR Mode

VTR mode uses a virtual time code space to allocate digital media files on your hard drive.

The user will simply call up various time code locations to preview, play, edit and record HD video and audio.

VTR Emulation and Control

QuickClip Pro's main advantage is its complete emulation of broadcast VTRs. The ClipRecorderHD offers two RS.422 control ports of master and slave and supports Sony, Odetics and Louth/VDCP protocols.

Audio

Up to 6 channels of embedded audio and 6 channels of AES/EBU audio are supported by ClipRecorder HD.

Video Raid

DiskArray or SAN Gateway. The ClipRecorderHD supports open Storage Solution, local DiskArray from 220 GB up to 1450 GB internal storage, alternative dual-channel 320 SCSI port or fibrechannel interface to external VideoRAID or SAN solutions.

HD/SD on one ClipRecorder

With the SD Option the ClipRecorder can capture both HighDefinition and Standard Definition uncompressed on one machine.

Multi-Channel HD I/O

- Dual Link HD-SDI for RGB and key channel.
- Dual Channel HD-SDI with QuickClip Server.

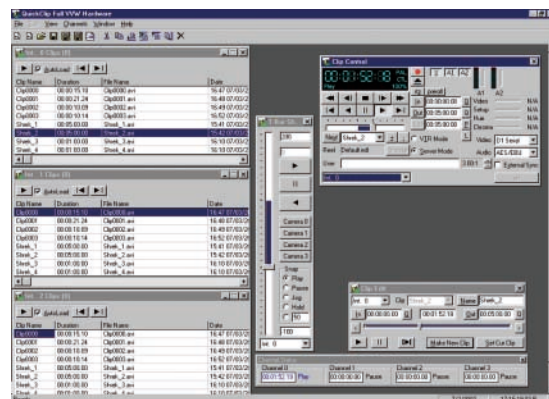
HiCon Image Format Converter

The motion compensated image format converter HiCon provides conversion between the different image sequence standards. Formats like 1080p24 which have been captured by ClipRecorderHD can be converted into any output raster as SDTV 576i or 480i or vice versa.

MPEG-2 SoftEngine

The SoftEngine is a software based plug-in to encode HDTV, SDTV and Audio according to ISO MPEG-1 and MPEG-2 standards. SoftEngine reads files directly from the HD DiskArray and delivers MPEG-2 elementary-, program- and transport-streams.

Software



QuickClip Pro

Graphical User Interface with Advanced EDL I/O
Single Frame Record (optional)
ClipControl and ClipEdit/trim
HD & SD (D1) Control
HTML / Java Graphical User Interface as option
Looping Modes and T-Bar Shuttle
External VTR Control Sony, Louth/VDCP and Odetics
VTR Emulation VTR Control Sony, Louth/VDCP and Odetics
EDL Support Avid log, CMX, Sony, GVG, Division, Drastic EDL, Drastic LOG
Play List, Edit List, Break/GPI, Loop
Web/browser-based control via network/ HTTPD/Java (optional)
MediaReactor file conversion (optional)

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