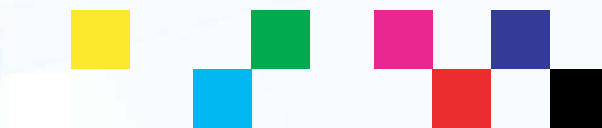


ClearView Player

Uncompressed SD/HD/4K Recorder/Players



Video **Clarity**



Tools for Video Analysis

A professional, highly reliable broadcast recorder-player. The ClearView Player is ideal when an uncompressed video source is needed for digital transmission and broadcast product testing.

The ClearView Player provides uncompressed recording and playback for review, analysis and conformance or performance testing.

Applications:

- Encoder/decoder testing
- Display calibration
- Signal path integrity checking
- Lab facility uncompressed A/V player/server
- Long-haul network test source

The ClearView Player includes many of the popular uncompressed test sequences and also allows for easy recording of additional test sequences. A new sequence can either be input and automatically decoded from IP stream, imported from any of the file import formats shown on the right or it can be recorded from digital or analog inputs. Each sequence may be trimmed with in and out points set. Using the play list feature, any test sequence can be grouped with other test sequences and played in a defined order.

The VANC and audio can be optionally turned on or off to allow complete sequence structural freedom.

The ClearView Player comes in four model options:

- A single sequence player with 3G HD-SDI, HDMI, Component, Composite and S-Video outputs and recording input
- A dual sequence player (synchronized for 3D) with two HD-SDI outputs and recording input
- A 4K Portable system with the ability to record or play up to 3840X2160 at 60Hz on Quad/HD, play 4K formats on HDMI or play two files of up to 1080p/60Hz
- A 4K 3 RU server system with the ability to record or play up to 3840X2160 at 60Hz on independent Quad/HD, play two 4K formats on HDMI or play two files of up to 3840X2160 at 60Hz each

WFM - waveform / vectorscope option:

- The ClearView Player line up now has an optional waveform and vectorscope solution.

ClearView File Importer

Imported File Formats (partial list)

Accom YUV CCIR 601 8-bit
ARI Raw Bayer Pattern
Avid AVR, DS HD/SD, DV (*.gen)
Avid Meridian, Y'CbCr, OMFI (*.omf, *.omfi)
AVR, JFIF, JPED, Meridian, RGB, Y'CbCr
Cineon (*.cin), CineWave
DPX RGB 8, RGB 10, Y'CbCr 4:2:2
DV (*.dv, *.dif), Digital Negative (*.dng)
DVS Direct File Format (*.dvs)
DVSD, DV25, DV50, MPEG-I, mJPEG, DigiSuite
H.261, H.263, H.264, H.265, HDV
Headerless/Raw (*.hdr, *.yuv, *.rgb, *.raw)
HiCon SLB32 RFB format (*.slb)
Image (*.gif, *.jpg, *.png), Jaleo Direct Format (*.js)
JPEG, JPEG2000, Media 100 MJPEG
Microsoft AVI (*.avi), BMP, DIB Files (*.dps)
MJPEG, MPEG 1 4:2:0 (*.mpg, *.mpeg)
MPEG 2 Elem. Stream, (4:2:0/4:2:2), MPEG2 (*.m2v)
MPEG 2 Program Stream, (4:2:0/4:2:2)
MPEG 2/4 in Transport Stream, (4:2:0/4:2:2)
MPEG 2/4 in MPTS (4:2:0, 4:2:2), MPEG4 (*.m4v)
MPEG 4/AVC Elementary Stream 4:2:0/4:2:2, (*.h264)
MPEG-H HEVC/H.265 4:2:0 Main Profile (*.h265)
MXF Format (DV, DVCPro50, MPEG, IMX)
Newtek Video Toaster (*.rtv)
Phantom Support (*.cine), PhotoShop FilmStrip (*.flm)
Photo CD PCD, Photoshop PSD, Portable anmap PNM
Portable Bitmap Format PBM DPS
Portable graymap PGM
Portable pixmap PPM
Profile GXF Format/SMPTE-360 (*.gxf)
QuickTime Movies (*.mov)
QuickTime formats w/proper codec, ProRes, etc...
RealVideo (*.ra, *.rm, *.ram), Red Camera Stream (*.r3d)
Run-Length encoding (*.rle)
SGI Movie Format (*.mv), SGI RGB
Silicon Image Bayer (*.siv), Sun Raster (*.ras)
Targa TGA, ICB, VDA, VST, Targa 3000, TIFF, TIF
v210 Y'CbCr 10 Bit, VC-1 Pro, Viewstore (*.vsr)
vcap, vcap10, Windows Media (*.asf, *.wmf, *.wmv)
Y'CbCr 8/10, Y'CbCr, RGB, YCrCb 8/RGBA

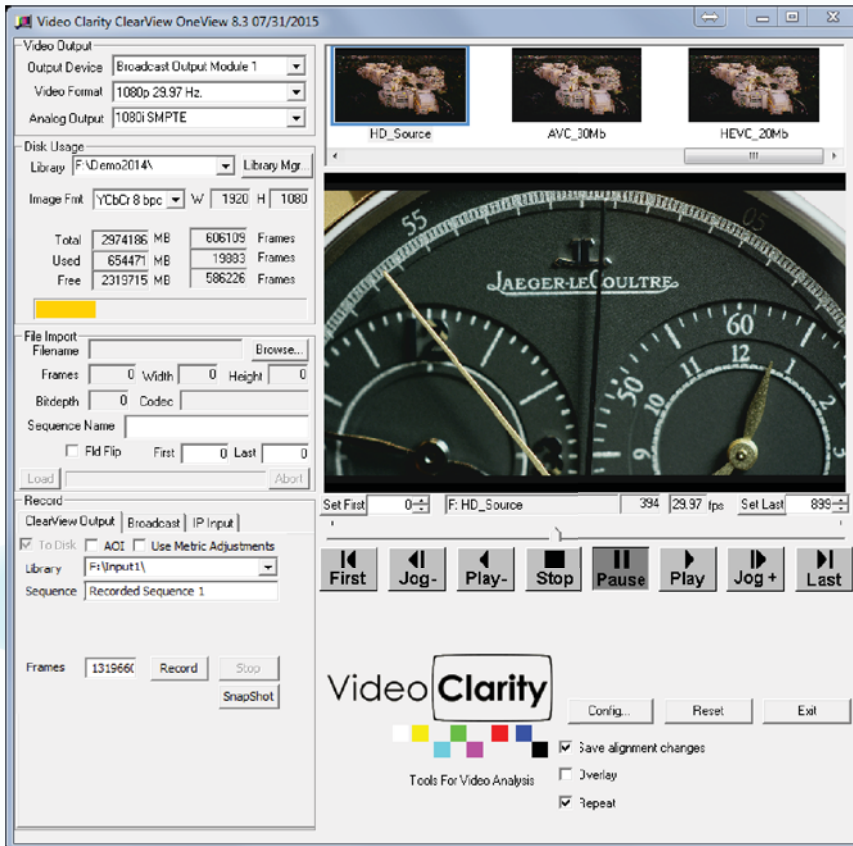
Audio Import Formats

Dolby® Digital Plus Professional Decoder (option)
MPEG-2 Layer 1 (*.mp1)
MPEG-2 Layer 3 (*.mp3)
Waveform Audio (*.wav)
Adaptive Multi-rate (*.amr)
Audio Interchange File Format (*.aiff)
Windows Media Audio (*.wma)
Advanced Audio Coding (*.aac)

Exported File Formats

QuickTime with up to 16 audio channels
Microsoft AVI (*.avi), BMP
Headerless/Raw (*.yuv, *.rgb, *.raw)

ClearView Player GUI for model 1011



ClearView Player GUI for all other models



Control

ClearView Player GUI

ClearView File Importer GUI

Batch File Commands:

- Command Line Interface
- Play Lists

Operation

Create a sequence by recording:

- Video (8 or 10 bit)
- Audio (up to 16 channels)
- VANC (all lines accessible)
- Timecode via HDSDI and LTC* input

Play a sequence with:

- Video (8 or 10 bit)
- Audio (up to 16 channels)
- VANC (all lines accessible)
- Timecode via HDSDI and LTC* output

Import multiple file types with the included ClearView File Importer:

- Uncompressed
- Compressed

Record from IP Stream:

- Automatic decode to CV Library
- Ability to apply scaling factor

3D play:

- Two HD-SDI output to an external frame packer/interlacer

ClearView File Importer GUI



*LTC on analog connection is model specific, see page 4

ClearView Player - Product Specifications

ClearView Player - Single HDSDI 3G/HDMI/Analog or Dual HDSDI Models



Models: CVP-1011, CVP-1012, CVP-1012-R
Storage: 900 GB
Power: 100 - 240VAC, 47-63Hz, Autodetect, 300 Watts Max
Includes: ClearView Player GUI, CV File Importer, analog breakout*, 1 RU rack ears (pair), user guide

Video I/O:
ITU-601, SMPTE 259,292,296,424,425, w/VANC
3G HD-SDI - 1 input, 1 output (8/10 bit) (BNC)
HDMI 1.3A, 1 input, 1 output (mini cable incl.)
Component, Composite, S-Video, (BNC on breakout)
CVP-1012: 2 HDSDI - inputs and outputs (BNC)
CVP-1012-R: Reference input in place of HDSDI in2
Timecode: SMPTE-12M on HDSDI, LTC analog*

Audio I/O:
24 bit, 48 kHz PCM, or DD+ in and out
- 16 ch. of embedded audio per video BNC
- 2 ch. carried on each HDMI*
- 4 ch. AES/EBU audio on 2 XLR*
- 2 ch. analog bal. audio on 4 XLR*
Options: VC-WFM - Waveform / Vscope
VC-DDP - Dolby® Digital Plus Decoder

IP Network Inputs: 2 - 1000baseT - RJ45
Dimensions: 17" W x 1.75" H x 10" D
43.2 cm x 4.5 cm x 25.4 cm
Weight: 11.7 lbs, 5.3 Kg
Temperature: Operating +5 - +25 Celsius
Storage -20 - +50 Celsius
Rel. Humidity: 5 - 95%, noncondensing
*CVP-1011 model only

ClearView Player 4K Portable - With Single Quad/HD Interface



Model: CVP-2044
Storage: 2.1 TB
Power: 100 - 240VAC, 47-63Hz, Autodetect, 300 Watts Max
Includes: ClearView Player GUI, CV File Importer, SMB/BNC quad, analog, and HDMI mini cables, user guide, 2 RU ears (pair), carry case, keyboard, mouse, USB GNIC adapter
Video I/O:
ITU-601, SMPTE 259,292,296,424,425, QuadHD
4 HD/SD-SDI - in or out (SMB/BNC)
- In or out 3840X2160p to 60Hz 10bit
Analog: 1 Y'PrPb Comp, or S-Video out
HDMI 2.0b: 1 output on HDMI mini

IP Network Inputs:
2 - 1000baseT - RJ45 (1 via USB adapter)
Dimensions: 8.6" W x 3.5" H x 13.75" D
22.0 cm x 9.0 cm x 35.0 cm
Weight: 11.5 lbs, 5.4 Kg
Temperature: Operating +5 - +25 Celsius
Storage -20 - +50 Celsius
Rel. Humidity: 5 - 95%, noncondensing
Audio I/O:
24 bit, 48 KHz PCM, or DD+ in and out
- 16 ch. embedded audio per video SMB/BNC
- AES/EBU: 8 channels on 4 BNC in and out
Timecode: SMPTE-12M on HDSDI, LTC analog
Options:
CV-WFM - Waveform Monitor / Vectorscope
VC-DDP - Dolby® Digital Plus Input Decoder

ClearView Player 4K Server - With Quad/HD Input and Output Interfaces



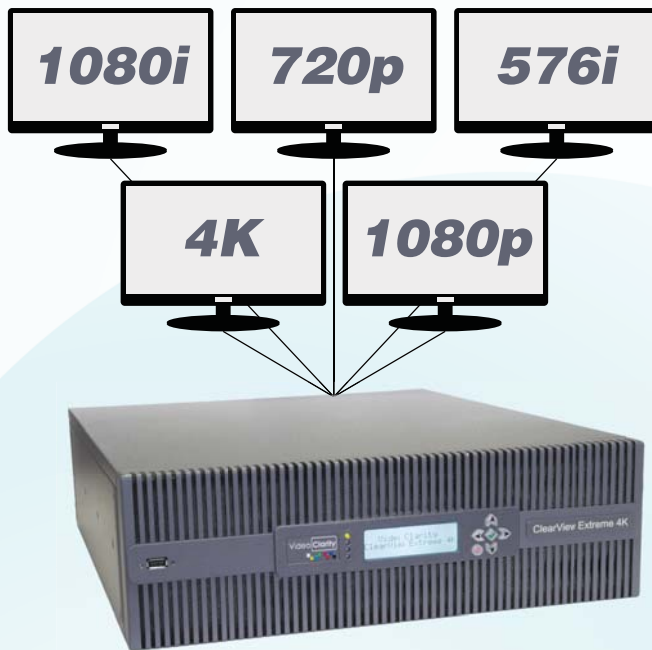
Models: CVP-3084-4K-5
CVP-3084-4K-10
Includes:
ClearView Player GUI, CV File Importer, SMB/BNC quad cbl (2), analog breakout (2), HDMI mini cable (2), user guide, keyboard, mouse, 3 RU rack kit

Storage: 5.0 TB or 10.0 TB
Video I/O:
ITU-601, SMPTE 259,292,296,424,425, QuadHD
8 HD/SD-SDI - 4 in and 4 out (SMB/BNC)
- In or out 3840X2160p to 60Hz 10bit on QuadHD
Analog: 2 Y'PrPb, Comp. or S-Video outputs
HDMI 2.0b: 2 outputs on HDMI mini (cables incl.)
Timecode: SMPTE-12M on HDSDI, LTC analog

Power: 100 - 240VAC, 47-63Hz, Autodetect, 600 Watts Max
Audio I/O:
24 bit, 48 KHz PCM, or DD+ in and out
- 16 ch. embedded audio per video SMB/BNC
- AES/EBU: 8 channels on 4 BNC in and out
Options: CV-WFM - Waveform / Vectorscope
VC-DDP - Dolby® Digital Plus Decoder

IP Network Inputs:
2 - 1000baseT - RJ45
Dimensions: 17" W x 5.25" H x 20.15" D
43.2 cm x 13.5 cm x 51.4 cm
Weight: 40 lbs, 18 Kg
Temperature: Operating +5 - +25 Celsius
Storage -20 - +50 Celsius
Rel. Humidity: 5 - 95%, noncondensing

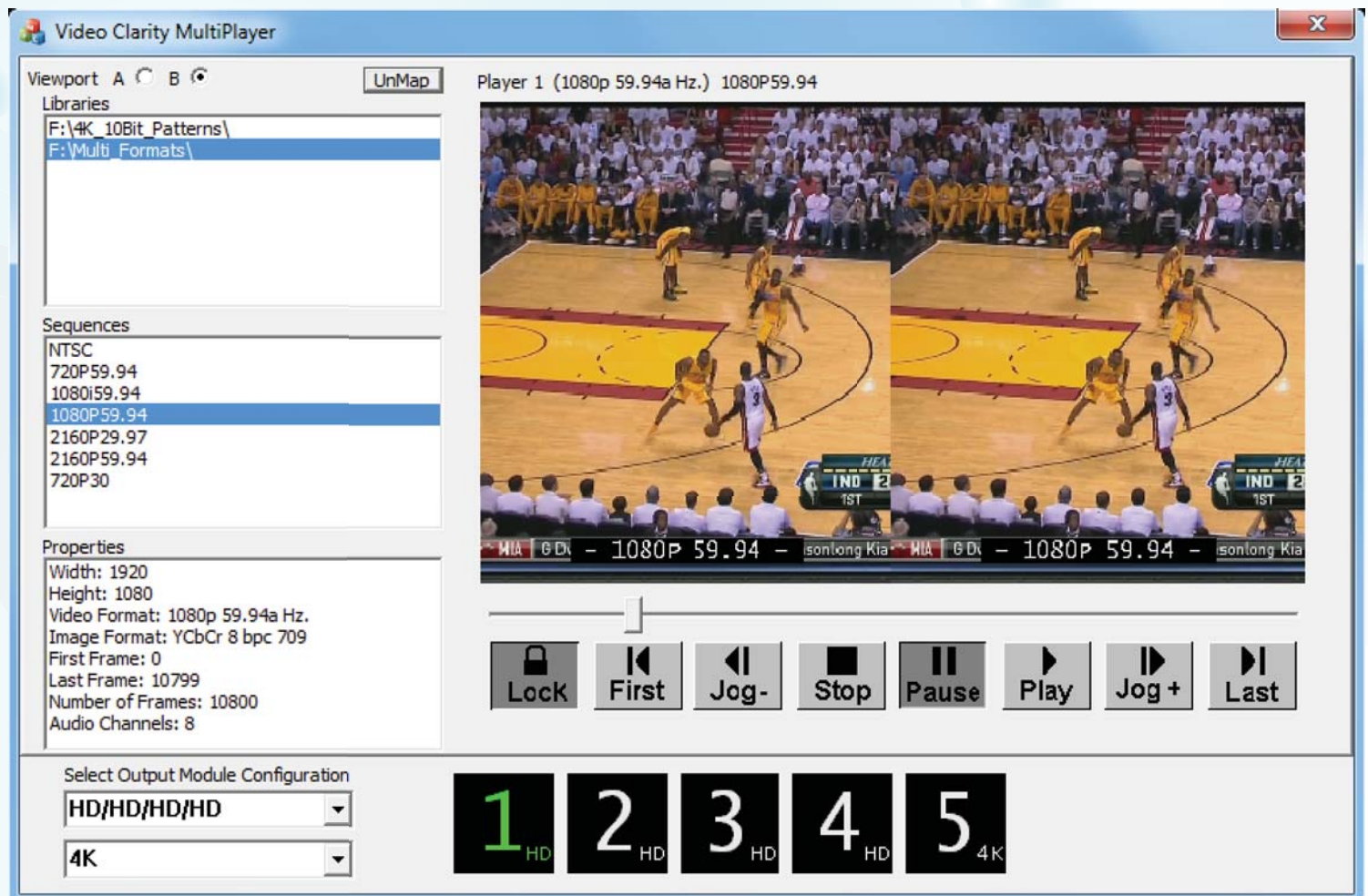
MultiPlayer for ClearView 4K Systems - Multi-Resolution Uncompressed Playback & Comparison



The MultiPlayer provides the ability to playback multiple uncompressed resolutions of video with audio at the same time. Additionally a side-by-side comparison of two file versions in each format may be applied to each video output. This allows source video versus encoded sequence comparisons to be viewed within each resolution while playing back each video to a choice of monitors.

- Instantly access and compare different distribution formats for quality between resolutions.
- Additionally apply a fixed side-by-side comparison of a source video versus an encoded version within each playback format.
- Apply 4K versus multiple HD resolutions to assess the effect of similar or different bit rates to quality.
- Control up to eight video sequences with audio and give commands to each from the same interface.

User Interface



MultiPlayer Features

The MultiPlayer allows up to four different HD or SD video playback sources to be output from any Quad HD interface on a ClearView 4K system. In systems with two Quad HD interfaces, a 4K plus four HD or SD videos with audio can be played in several combinations. Up to eight video sequences may be applied in dual Quad HD interface units for HD or SD formats.

- Control each sequence selected from ClearView library with play, rew, jog, pause, go to first/last frame.
- Playback sequences individually or lock all selected sequences to one command.
- A fixed side-by-side view can be applied to each output for additional comparison of source and encode/decode version of video on all screens and outputs.

The MultiPlayer is available as a software license option to existing or new ClearView 4K systems, model CVMP-4K-1L, and as part of packaged ClearView Player 4K product models specified below.

ClearView Player 4K Portable - With MultiPlayer and One Quad/HD Interface



Model: CVMP-2044

Storage: 2.1 TB

Power: 100 - 240VAC, 47-63Hz,

Autodetect, 300 Watts Max

Includes: ClearView Player, MultiPlayer, CV File Importer, SMB/BNC quad, analog and HDMI mini cable (1), user guide, 2 RU ears (pair), carry case, keyboard, mouse, USB GNIC adapters (2)

Video I/O:

ITU-601, SMPTE 259,292,296,424,425, QuadHD

4 HD/SD-SDI - in or out (SMB/BNC)

- In or out 3840X2160p to 60Hz 10bit

Analog: 1 Y'PrPb Comp, or S-Video out

HDMI 2.0b: 1 output on HDMI mini

IP Network Inputs:

2 - 1000baseT - RJ45 (1 via USB adapter)

Dimensions: 8.6" W x 3.5" H x 13.75" D

22.0 cm x 9.0 cm x 35.0 cm

Weight: 11.5 lbs, 5.4 Kg

Temperature: Operating +5 - +25 Celsius

Storage -20 - +50 Celsius

Rel. Humidity: 5 - 95%, noncondensing

Audio I/O:

24 bit, 48 KHz PCM, or DD+ in and out

- 16 ch. embedded audio per video SMB/BNC

- AES/EBU: 8 channels on 4 BNC in and out

Timecode: SMPTE-12M on HDSDI, LTC analog

Options:

CV-WFM - Waveform Monitor / Vectorscope

VC-DDP - Dolby® Digital Plus Input Decoder

ClearView Player 4K Server - With MultiPlayer and Two Quad/HD Interfaces



Models: CVMP-3084-4K-5
CVMP-3084-4K-10

Includes:

ClearView Player, MultiPlayer, CV File Importer, SMB/BNC Quad cables (2), analog breakout (2), HDMI mini cables (2), user guide, mouse, keyboard, 3 RU rack kit

Storage: 5.0 TB or 10.0 TB

Video I/O:

ITU-601, SMPTE 259,292,296,424,425, QuadHD

8 HD/SD-SDI - 4 in and 4 out (SMB/BNC)

- In or out 3840X2160p to 60Hz 10bit on QuadHD

Analog: 2 Y'PrPb, Composite or S-Video outputs

HDMI 2.0b: 2 outputs on HDMI mini

Timecode: SMPTE-12M on HDSDI, LTC analog

Power: 100 - 240VAC, 47-63Hz,

Autodetect, 600 Watts Max

Audio I/O:

24 bit, 48 KHz PCM, or DD+ in and out

- 16 ch. embedded audio per video SMB/BNC

- AES/EBU: 8 channels on 4 BNC in and out

Options: CV-WFM - Waveform / Vectorscope

VC-DDP - Dolby® Digital Plus Decoder

IP Network Inputs:

2 - 1000baseT - RJ45

Dimensions: 17" W x 5.25" H x 20.15" D

43.2 cm x 13.5 cm x 51.4 cm

Weight: 40 lbs, 18 Kg

Temperature: Operating +5 - +25 Celsius

Storage -20 - +50 Celsius

Rel. Humidity: 5 - 95%, noncondensing

Product design and specifications are subject to change without notice or obligation. Video Clarity, Inc.