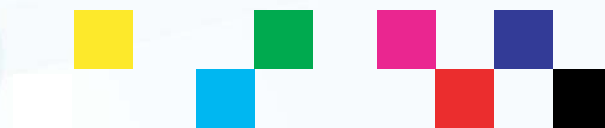


# ClearView Player

## 4K Recorder/Players with Venue Player



Video **Clarity**



Tools for Video Analysis

A professional, highly reliable recorder-player with multi-format output capabilities. The ClearView Player with Venue Player is ideal when uncompressed video sources are needed for synchronized digital video playback or broadcast product testing.

The ClearView Player with Venue Player also provides uncompressed recording, file importing and playback in a side-by-side comparison on video outputs for subjective quality analysis.

#### Applications:

- Encoder/decoder testing
- Lab facility uncompressed A/V player/server
- Long-haul network test source
- Multiple output subjective video quality analysis
- Highest quality multi-screen venue playback
- Display calibration and signal path integrity checking

The ClearView Player includes several uncompressed test sequences and also allows for easy recording of additional video 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 serial digital 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 audio or VANC record and playback can be optionally turned on or off to allow complete sequence structural freedom.

The ClearView Player with Venue Player comes in two models with two storage options each:

- A 4K portable and rack mountable 2 RU system with the ability to record or play up to 4096X2160 at 60Hz and play up to four files of up to 1080p/60Hz each using the included Venue Player application.
- A 4K 3 RU high capacity system with the ability to record one or play two video sequences up to 4096X2160 at 60Hz on two independent 12G-SDI outputs. Mix a 4K output with multiple HD formats on four 12G-SDI outputs at integer related frame rates with the included Venue Player.
- Models listed are upgradable to the full ClearView Analyzer.

## ClearView Importer

### Imported File Formats (partial list)

Accom YUV CCIR 601 8-bit  
 ARI Raw Bayer Pattern  
 Avid AVR, DS HD/SD, DV (\*.gen), DNxHD  
 Avid Meridian, Y'CbCr, OMFI (\*.omf, \*.omfi)  
 AV1, AVC, AVC-HD, AVR, AVS  
 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  
 GXF Format/SMPTE-360 (\*.gxf)  
 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 (\*.js), JFIF, JPED  
 JPEG, JPEG2000, LXF, Meridian, 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), MPEG-4 (\*.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 (DCP, DV, DVCPPro50, MPEG, IMX, OP1a)  
 Newtek Video Toaster (\*.rtv)  
 Phantom Support (\*.cine), PhotoShop FilmStrip (\*.flm)  
 Photo CD PCD, Photoshop PSD, Portable anymap PNM  
 Portable Bitmap Format PBM DPS  
 Portable graymap PGM  
 Portable pixmap PPM  
 QuickTime Movies (\*.mov)  
 QuickTime formats w/proper codec, ProRes, etc...  
 RealVideo (\*.ra, \*.rm, \*.ram), Red Camera Stream (\*.r3d)  
 Run-Length encoding (rle)  
 Sony XDCam, 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, VP8, VP9, Viewstore (\*.vsr)  
 vcap, vcap10, Windows Media (\*.asf, \*.wmf, \*.wmv)  
 Y'CbCr 8/10, Y'CbCr, RGB, YCrCb 8/RGBA

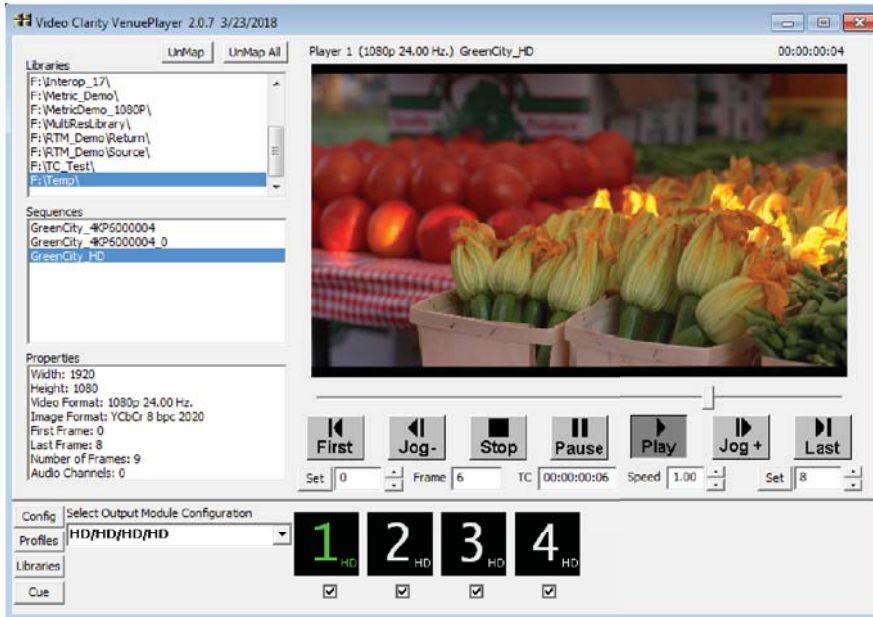
### Audio Import Formats

Dolby® Digital Plus Professional Decoder (included)  
 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)

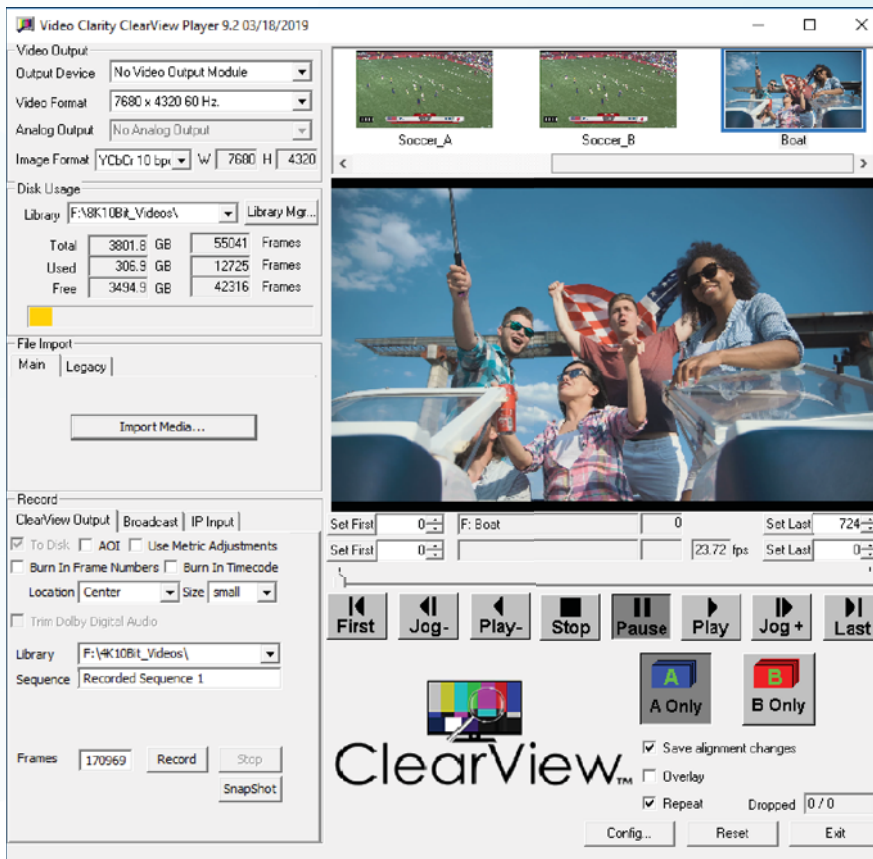
### Exported File Formats

BMP, Headerless/Raw (\*.yuv, \*.rgb, \*.raw)  
 Microsoft AVI (\*.avi), MXF (v210)  
 QuickTime with up to 16 audio channels

## Venue Player GUI



## ClearView Player GUI with HDSDI and IP Record Function



ClearView Players with Venue Player include 12G-SDI recording and IP capture/decoding using the included ClearView Player application on all CVVP designated systems and models.  
Options: CV-WFM - waveform and vectorscope  
CV-IP-IO-HD - 10G IP media interface

## Control, Ingest and Play

Included applications:

- Venue Player
- ClearView Player-Recorder
- ClearView File Importer
- Command Line Interface
- with easy to use play list function

Uncompressed recording:

- Video (8, 10 or 12 bit)
- Audio (up to 16 channels)
- VANC (all lines record)
- Timecode record via HDSDI and LTC

Record from IP stream up to HD 1080i:

- Automatic decode to uncompressed video and audio for playback by both player apps
- Apply scaling factor at time of capture

Play a sequence with:

- Video (8, 10 or 12 bit)
- Audio (up to 16 channels)
- VANC (all lines play)
- Timecode via HDSDI or LTC analog

Multiple format payout:

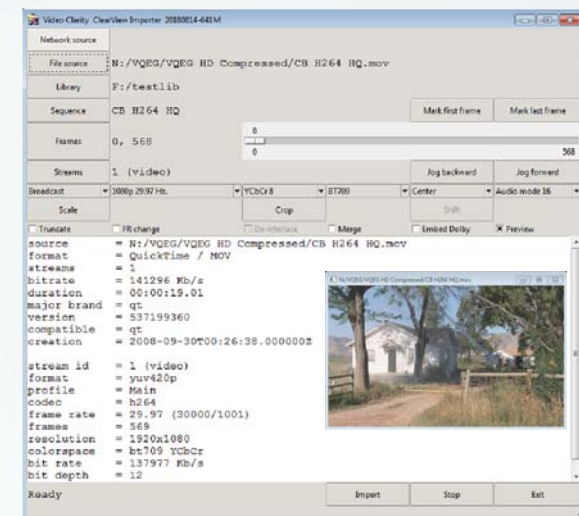
- Mix formats with integer related frame rates
- Lock all sequences to play command

Import multiple file types with the included

ClearView File Importer:

- Uncompressed studio source files
- Compressed files of all types

## ClearView Importer GUI







The Venue Player provides the ability to playback multiple uncompressed resolutions of video with audio at the same time. Additionally a side-by-side comparison of two versions of each format may be applied to each video output to the internal capacity of each system. This allows source video versus encoded sequence comparisons to be viewed within each resolution 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 any one stage of processing to another.
- Apply 4K versus multiple HD resolutions to assess the effect of similar or different bit rates to quality.

## Dual 4K 12G-SDI High Capacity Player, HDMI 2.0 Output and Optional 10G IP Media Interface



**Models:** CVVP-3085-4K-8  
CVVP-3085-4K-16

**Includes:**

Venue Player, ClearView Player, CV-Importer, HD-BNC to BNC cables (5), LTC-AES breakout (1), HDMI cable (1), user guide, mouse, keyboard, 3RU rack kit

**Storage:** 8.0 TB or 16.0 TB  
**Video I/O:** Record or play the following SMPTE 259,292,296,424,425a/b, QuadHD or 2SI 4 12G-SDI - 1 in or 4 out (HD-BNC)  
- Up to two 4096X2160p 60Hz 10bit 4:2:2 play  
- Up to four 1920X1080p 60Hz 10bit 4:2:2 play  
**HDMI 2.0:** 1 output on HDMI (cable included)  
**Timecode:** SMPTE-12M on SDI, or 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 HD-BNC  
- AES/EBU: 8 channels on 4 BNC in and out  
**Ref In:** 1 HD-BNC input - **GPI:** serial 9-pin  
**Option:** CV-WFM - Waveform / Vectorscope

**IP Network and USB Inputs:** 1 10G IP, 1 G IP, 5 USB 3.1, 1 USB Type C  
**Dimensions:** 17" W x 5.25" H x 20.15" D  
43.2 cm x 13.5 cm x 51.4 cm  
**Weight:** 31 lbs, 14.1 Kg  
**Temperature:** Operating 0 - +40 celsius  
Storage -20 - +50 celsius  
**Rel. Humidity:** 5 - 95%, noncondensing

**CV-IP-IO-HD:**

Optional 10G IP media interface module requires one or two SFPs purchased separately and applied for I/O function

**Video I/O:** 10 Gigabit Ethernet applying SMPTE ST 2110, or 2022-6 media transport  
- Up to 4 HD or SD video/audio programs output  
- Up to 1 HD or SD video/audio record input  
**HDMI 1.4 programmable:** - 1 output, standard size HDMI connector  
**Media Transport Interface:** 2 x SFP+ Cages - SFPs not included  
**Reference Input:** ST 2110-10 PTP slave or composite sync on BNC

**Digital Video Formats:** 525i 59.94Hz, 625i 50Hz, 720p 60, 59.94, 50Hz, 1080i 60, 59.94 & 50 Hz, 1080p 60, 59.94, 50, 30, 29.97, 25, 24 & 23.98Hz  
**Digital Audio I/O:** 16 channel, 24bit, 48KHz PCM, or DD+  
**VANC:** SMPTE ST 2110-40 record and playback  
**Timecode:** ST 2110-40 or LTC analog on shared BNC

## Portable 4K Player for Single 12G-SDI or Four 3G-SDI and HDMI 2.0 Output



**Models:** CVVP-2045, CVVP-2045-5  
**Storage:** 2.5 TB or 5.0 TB  
**Power:** 100 - 240VAC, 47-63Hz, Autodetect, 300 Watts Max  
**Includes:** Venue & ClearView Player, CV-Importer, HD-BNC to BNC cables (5), HDMI cable (1), user guide, 2RU ears, hard carry case, keyboard, mouse  
**Video I/O:** Record or play the following SMPTE 259,292,296,424,425a/b, 4K as QuadHD or two sample interleaved (2SI) 4 12G-SDI - in or out (HD-BNC)  
- In or out up to 4096X2160p 60Hz 10bit  
- Up to four 1920X1080p 60Hz 10 bit out  
**HDMI 2.0:** 1 output on HDMI (cable incl.)

**IP Network & USB Inputs:** 2 1000baseT on RJ45, 4 USB 3.0  
**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 0 - +40 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 HD-BNC  
- AES/EBU: 8 channels on 4 BNC in and out  
**Timecode:** SMPTE-12M on SDI, or LTC analog  
**Ref In:** 1 HD-BNC input  
**Option:** CV-WFM - Waveform / Vectorscope

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