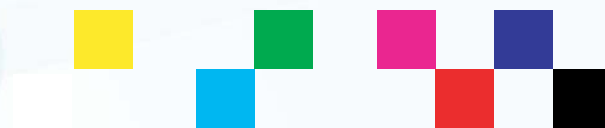


# ClearView Player

## 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 each video output 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 Quad/HD outputs. Mix and match 4K and HD formats or play up to eight HD sequences with the included Venue Player application.
- 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

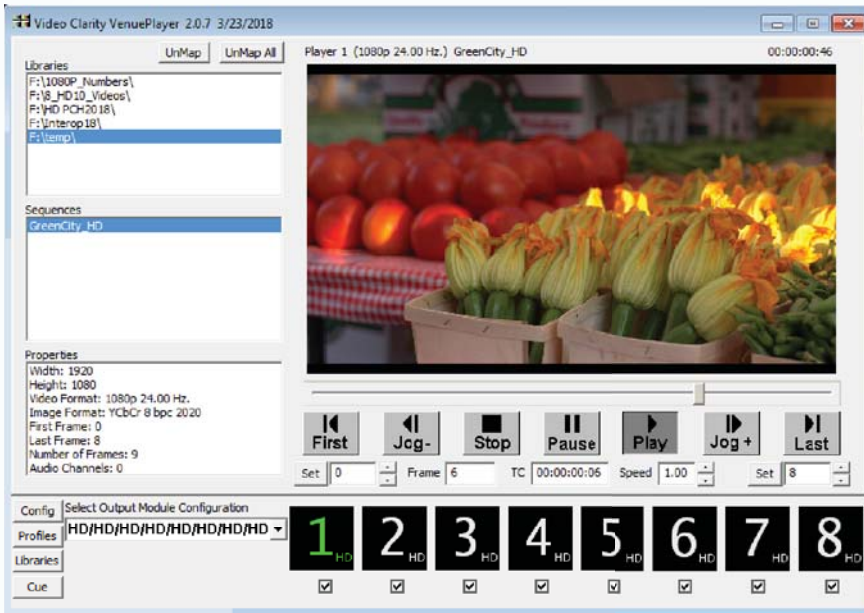
### Audio Import Formats

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 Player with HDSDI recording and IP capture/decoding, Venue Player, and ClearView Importer are included in all CVVP designated systems and models.

- CV-WFM - An optional waveform and vectorscope for calibrating input or output signals up to 4Kp60 is available.

## 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:

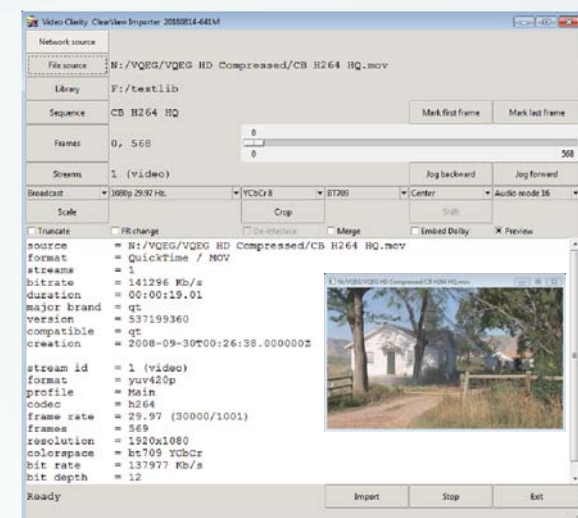
- Mix formats with integer related frame rates
- Lock all sequences to play command

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.
- Control up to eight video sequences with audio and give commands to each from the same interface.

## ClearView Player with Venue Player - 4K Portable with Single Quad/HD IO and HDMI Output Interface



<b>Models:</b> CVVP-2044, CVVP-2044-5	<b>IP Network &amp; USB Inputs:</b>
<b>Storage:</b> 2.5 TB or 5.0 TB	2 1000baseT on RJ45, 4 USB 3.0
<b>Power:</b> 100 - 240VAC, 47-63Hz, Autodetect, 300 Watts Max	<b>Dimensions:</b> 8.6" W x 3.5" H x 13.75" D 22.0 cm x 9.0 cm x 35.0 cm
<b>Includes:</b> Venue & ClearView Player, CV-Importer, SMB/BNC quad, analog and HDMI mini cable (1), user guide, 2 RU ears (pair), carry case, keyboard, mouse	<b>Weight:</b> 11.5 lbs, 5.4 Kg
<b>Video I/O:</b> SMPTE 259,292,296,424,425a/b, 4K as QuadHD or two sample interleaved (2SI) 4 HD/SD-SDI - in or out (SMB/BNC) - In or out up to 4096X2160p 60Hz 10bit Analog: 1 Y'PrPb, Comp, or S-Video out HDMI 2.0b: 1 output on HDMI mini	<b>Temperature:</b> Operating 0 - +40 celsius Storage -20 - +50 celsius
	<b>Rel. Humidity:</b> 5 - 95%, noncondensing
	<b>Audio I/O:</b> 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
	<b>Timecode:</b> SMPTE-12M on HDS/1, LTC analog
	<b>Ref In:</b> BNC input on analog breakout cable
	<b>Option:</b> CV-WFM - Waveform / Vectorscope

## ClearView Player with Venue Player - 4K High Capacity Server w/Dual Quad/HD IO and HDMI Outputs



<b>Models:</b> CVVP-3084-4K-12 CVVP-3084-4K-24	<b>Storage:</b> 12.0 TB or 24.0 TB	<b>Power:</b> 100 - 240VAC, 47-63Hz, Autodetect, 600 Watts Max	<b>IP Network and USB Inputs:</b>
<b>Includes:</b> Venue Player, ClearView Player, CV-Importer, SMB/BNC Quad cables (2), analog breakout (2), HDMI mini cables (2), user guide, mouse, keyboard, 3 RU rack kit	<b>Video I/O:</b> SMPTE 259,292,296,424,425a/b, QuadHD or 2SI 8 HD/SD-SDI - 4 in or 8 out (SMB/BNC) - Up to two 4096X2160p 60Hz 10bit 4:2:2 play Analog: 2 Y'PrPb, Comp, or S-Video outputs HDMI 2.0b: 2 outputs on HDMI mini (cables incl.) <b>Timecode:</b> SMPTE-12M on HDS/1, LTC analog	<b>Audio I/O:</b> 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 <b>Ref In:</b> BNC input on analog breakout cables <b>Option:</b> CV-WFM - Waveform / Vectorscope	2 1000baseT on RJ45, 10 USB 3.0
			<b>Dimensions:</b> 17" W x 5.25" H x 20.15" D 43.2 cm x 13.5 cm x 51.4 cm
			<b>Weight:</b> 40 lbs, 18 Kg
			<b>Temperature:</b> Operating 0 - +40 celsius Storage -20 - +50 celsius
			<b>Rel. Humidity:</b> 5 - 95%, noncondensing

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