

# ClearView Player

## Uncompressed 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 MultiPlayer is ideal when uncompressed video sources are needed for synchronized digital video playback or broadcast product testing.

The ClearView Player with MultiPlayer 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 MultiPlayer 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 MultiPlayer 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 MultiPlayer application.
- All CVMP designated models are upgradable from ClearView Player to the full ClearView Analyzer.

## 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



## Control, Ingest and Play

Included applications:

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

Uncompressed recording:

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

Play a sequence with:

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

Import multiple file types with the included ClearView File Importer:

- Uncompressed studio source files
- Compressed files of all types

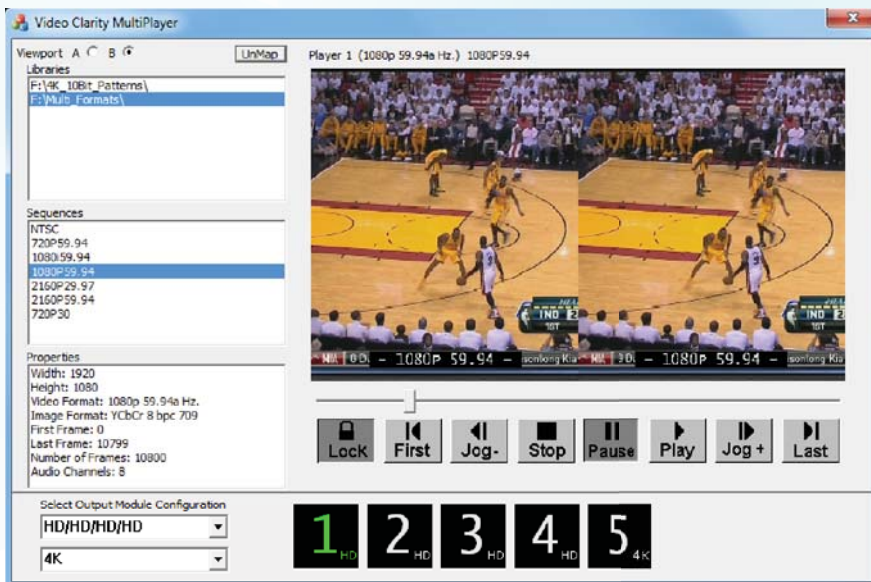
Record from IP stream up to HD 1080i:

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

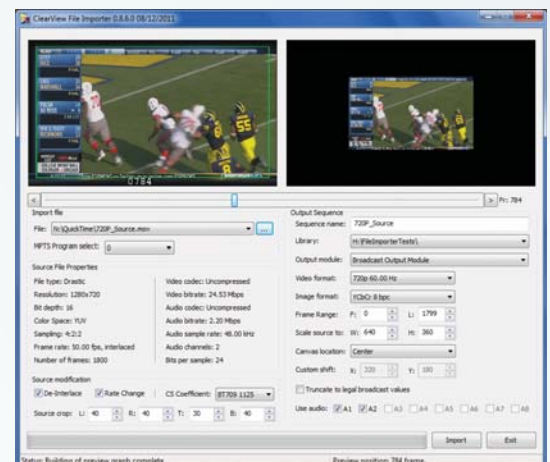
Multiple format and comparison payout:

- Play multiple formats at same frame rate
- Assign video in fixed side-by-side to all HDSDI interface outputs per system
- Lock all sequences to play command

## Venue Player GUI



## ClearView File Importer GUI



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

CV-WFM - waveform / vectorscope option:

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



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. 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 - Single Quad/HD IO and HDMI Output Interface



<b>Models:</b> CVVP-2044, CVVP-2044-5	<b>IP Network Inputs:</b> 2 - 1000baseT - RJ45
<b>Storage:</b> 2.5 TB or 5.0 TB	<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>Power:</b> 100 - 240VAC, 47-63Hz, Autodetect, 300 Watts Max	<b>Weight:</b> 11.5 lbs, 5.4 Kg
<b>Includes:</b> ClearView & Venue Player, CV File Importer, SMB/BNC quad, analog and HDMI mini cable (1), user guide, 2 RU ears (pair), carry case, keyboard, mouse	<b>Temperature:</b> Operating +5 - +25 celsius Storage -20 - +50 celsius
<b>Video I/O:</b> SMPTE 259,292,296,424,425, 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>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 HDSDI, LTC analog
	<b>Options:</b> CV-WFM - Waveform Monitor / Vectorscope VC-DDP - Dolby® Digital Plus input decoder

## ClearView Player with Venue Player 4K High Capacity Server - 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 Inputs:</b> 2 - 1000baseT - RJ45
<b>Includes:</b> ClearView Player, Venue Player, CV File 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 259,292,296,424,425, QuadHD or 2SI 8 HD/SD-SDI - 4 in or 8 out (SMB/BNC) - Up to 4096X2160p 60Hz 10bit on QuadHD 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 HDSDI, 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>Options:</b> CV-WFM - Waveform / Vectorscope VC-DDP - Dolby® Digital Plus input decoder	<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 +5 - +25 celsius Storage -20 - +50 celsius
			<b>Rel. Humidity:</b> 5 - 95%, noncondensing

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