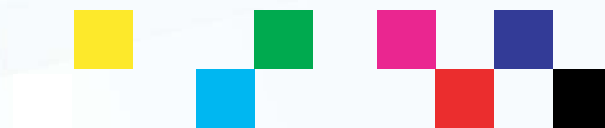


ClearView Player 8K

Uncompressed 8K/4K/HD/SD
Recorder/Player



Video **Clarity**



Tools for Video Analysis

ClearView Player 8K, a professional, highly reliable broadcast recorder-player.

This ClearView Player - Recorder is ideal when an uncompressed video source is needed for all types of manual or programmed playback.

The ClearView Player 8K provides uncompressed recording and playback for venues and also review, analysis and performance testing from standard definition up to 8K resolutions and frame rates.

Applications:

- Highest quality programmed venue playback
- Encoder/decoder testing
- Display calibration
- Signal path integrity checking
- Lab facility uncompressed A/V player/server
- Long-haul network test source
- On-location 4K or 8K uncompressed recorder
- On-air broadcast player

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 from an 8K camera or automatically imported from any of the file import formats shown on the right or it can be recorded from digital inputs.

Each sequence may be trimmed with in and out points set. Using the Venue Player application or command line interface, any video sequence can be grouped with other sequences and played synchronously or in a defined order.

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

The ClearView Player 8K:

- An uncompressed video player with 16 3G HD-SDI interfaces programmable for recording or playback
- A multi-sequence player for playing up to two 4K or sixteen HD or SD videos at the same time

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), DNxHD
 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 (DCP, DV, DVCPro50, 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
 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/RGGB

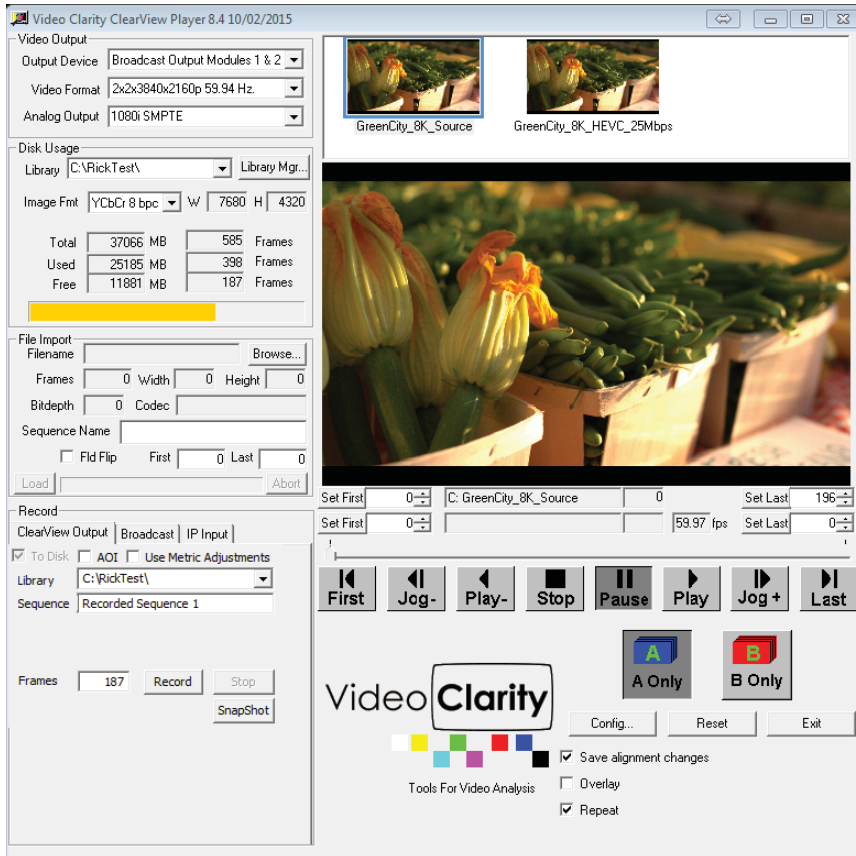
Audio Import Formats

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

ClearView Player 8K GUI: System model CVVP-3088-8K



Control

ClearView Player GUI
Venue Player GUI
ClearView File Importer GUI

Batch File Commands:
- Command Line Interface
- Play Lists

Operation

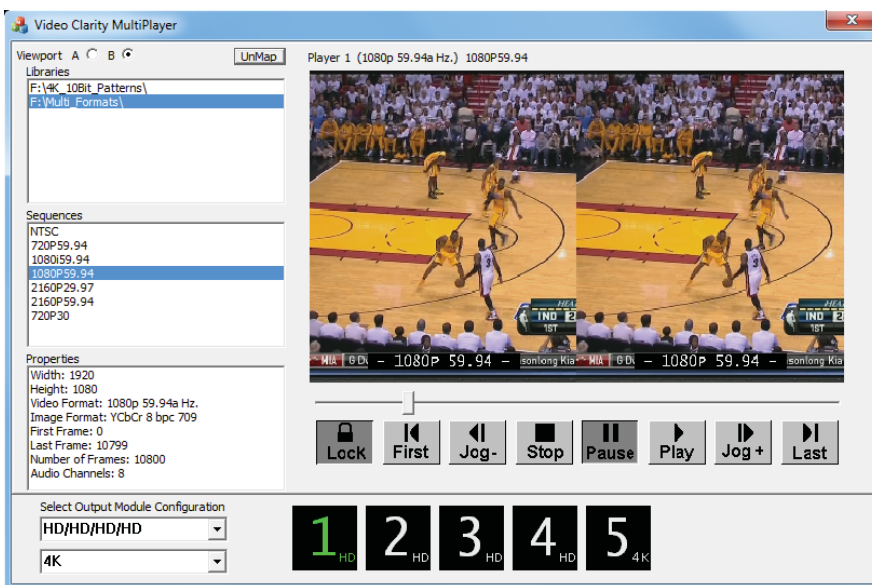
Create a sequence by recording:
- 8K, 4K, HD or SD Video (8 or 10 bit)
- Audio (up to 16 channels SDI embedded)
- VANC (all lines accessible)
- Timecode via HDSDI

Play a sequence with:
- 8K video (single instance 8 or 10 bit)
- Up to 16 HDSDI 3G video sequences
- Audio (up to 16 channels per video)
- VANC (all lines accessible)
- Timecode via HDSDI

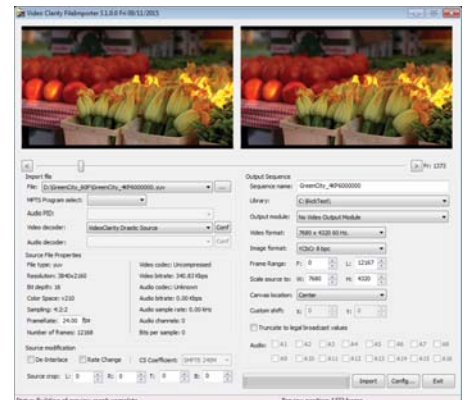
SD/HD/4K multiple format play:
- Four separate playback outputs up to 4K each are possible with Venue Player
- Each SDI interface can play a different format at integer related frame rates

Import multiple file types with the included ClearView File Importer:
- Uncompressed import of YUV or RGB
- Decode compressed files from any format
- Decode & record IP streams (HD and SD)

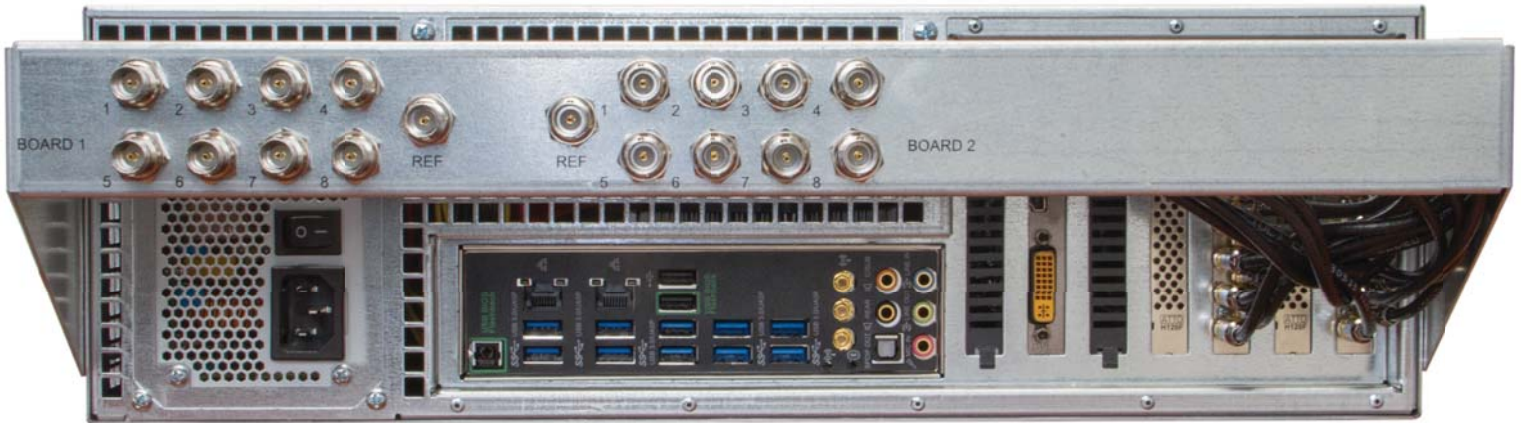
Venue Player GUI



ClearView File Importer GUI



ClearView Player 8K - 8K Recorder / Player with Venue Player



<p>Models: CVVP-3088-8K-16 CVVP-3088-8K-32</p> <p>Includes: ClearView Player, Venue Player, CV File Importer, user guide, keyboard, mouse, sync generator w/cables, 3 RU rack kit</p>	<p>Storage: 16 TB or 32 TB</p> <p>Format I/O: ITU-601, SMPTE259,292,296,424,425 a/b,QuadHD</p> <p>Video I/O: - 16 HD/SD-SDI in or 16 out (BNC) - Up to 7680x4320p @ 60Hz, 4:2:2, 8 or 10 bit</p> <p>Timecode: SMPTE-12M on HDSDI</p> <p>Reference Input: 2 BNC - Tri-level HD sync</p>	<p>Power: 100 - 240VAC, 47-63Hz, Autodetect, 700 Watts Max</p> <p>Audio I/O: 24 bit, 48 KHz PCM, or DD+ in and out - 16 channel embedded audio in or out on one BNC</p> <p>Option: VC-DDP - Dolby® Digital Plus Input Decoder</p>	<p>IP Network Inputs: 2 - 1000baseT - RJ45</p> <p>Dimensions: 17" W x 5.25" H x 31.5" D 43 cm x 13.5 cm x 80 cm</p> <p>Weight: 50 lbs, 22.7 Kg</p> <p>Temperature: Operating 0 - +40 Celsius Storage -20 - +50 Celsius</p> <p>Rel. Humidity: 5 - 95%, noncondensing</p>
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<p>Video Formats Supported:</p> <p>8K 7680x4320p 23.98, 24, 25, 29.97, 30, 50, 59.94, 60 Hz</p> <p>4K 4096x2160p 23.98, 24, 25, 29.97, 30, 50, 59.94, 60 Hz 3840x2160p 23.98, 24, 25, 29.97, 30, 50, 59.94, 60 Hz</p>	<p>HD 720p 50, 50.94, 60 Hz 1080i 50, 59.94, 60 Hz 1080p 23.98, 24, 25, 29.97, 30, 50, 59.94, 60 Hz</p> <p>SD 525i 59.94 Hz 625i 50 Hz</p>	<p>Play/Record Duration Examples Per Product Model:</p> <table border="0"> <tr> <td>Video Standard</td> <td>16 TB</td> <td>32 TB</td> </tr> <tr> <td>7680x4320@60p, 10-bit, 4:2:2</td> <td>54 min.</td> <td>108 min.</td> </tr> <tr> <td>7680x4320@60p, 8-bit, 4:2:2</td> <td>72 min.</td> <td>144 min.</td> </tr> <tr> <td>3840x2160@60p, 10-bit, 4:2:2</td> <td>215 min.</td> <td>431 min.</td> </tr> <tr> <td>3840x2160@60p, 8-bit, 4:2:2</td> <td>288 min.</td> <td>575 min.</td> </tr> </table>	Video Standard	16 TB	32 TB	7680x4320@60p, 10-bit, 4:2:2	54 min.	108 min.	7680x4320@60p, 8-bit, 4:2:2	72 min.	144 min.	3840x2160@60p, 10-bit, 4:2:2	215 min.	431 min.	3840x2160@60p, 8-bit, 4:2:2	288 min.	575 min.
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