

Venue Player IP

Uncompressed 25G IP Network
Multi-Stream Player / Recorder



Video **Clarity**



Tools for Video Analysis

A professional, highly reliable recorder-player with multi-format output capabilities. The Venue Player IP with ClearView Player-Recorder ingests all sources as uncompressed content for continuous high quality synchronized digital video playback in a venue or test lab environment.

The Venue Player IP systems provide uncompressed dual stream recording, media file importing, and playback of up to two 4K outputs or up to eight Full HD outputs via ST 2110 with ST 2022-7 redundancy. Fixed side-by-side comparisons may be applied up to the output capacity of each system.

Applications:

- Lab facility uncompressed recorder/player with ANC
- ST 2110 with ST 2022-7 IP network test source
- Display calibration and signal path integrity checking
- Multi-format encoder/decoder subjective testing
- Venue or broadcast content playback

The Venue Player IP may include high complexity test sequences and also allows for easy recording of additional video sequences. A new sequence can be input and automatically decoded from an MPEG IP stream via the system's Ethernet inputs, imported from compressed or uncompressed media file formats shown on the right, or it can be recorded from ST 2110 networks. 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 compact 2RU model has the ability to record two streams up to 4096x2160p60 and then play two streams up to 4096x2160p60 or play eight HD sequences up to 1080p60 each.

The video format capability of each system includes the specified audio or ancillary data (ANC) record and playback functionality which can be optionally turned on or off to allow media sequence structural freedom.

The optional Venue Recorder application provides up to eight full HD stream recording and adds simultaneous record and playback functionality.

ClearView Importer

File Formats Supported (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, DVCPro50, MPEG, IMX, OP1a)
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
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

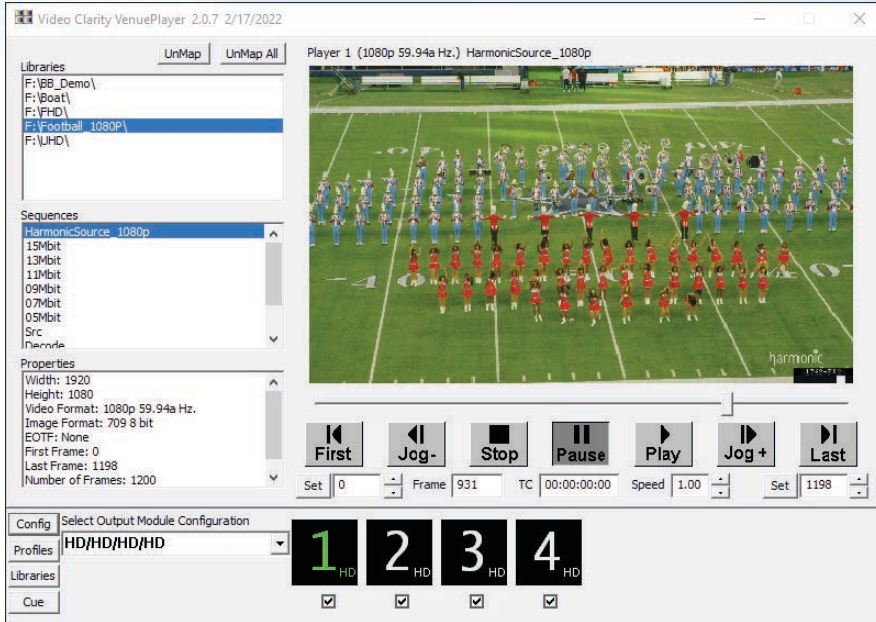
Audio Import Formats

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)

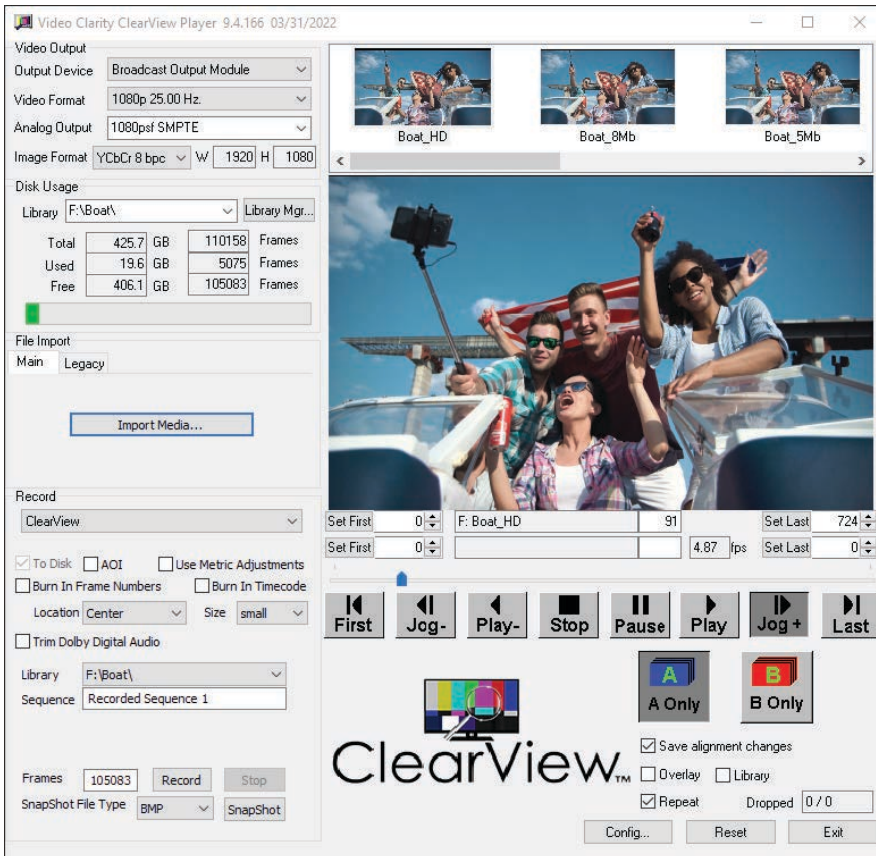
Exported File Formats

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

Venue Player GUI



ClearView Player GUI with Record Function



Record from uncompressed IP network or record automatically decoded video from MPEG on IP via the ClearView Player application included with each system as specified on page four.

Control, Ingest, and Play

Applications included:

- Venue Player
- Venue Player Manager
- ClearView Player-Recorder
- VDCP or Command Line Interface
- with easy to use play list function

Uncompressed IP stream recording with:

- Video (8 or 10-bits per pixel)
- Audio (up to 16 channels per video)
- ANC (according to ST-2110-40)
- Timecode

Decode from MPEG IP stream up to UHD:

- Automatic decode to uncompressed video and audio for playback by either player app

Play sequences with:

- Video (8 or 10-bits per pixel)
- Audio (up to 16 channels per video)
- ANC (according to ST-2110-40)
- All media genlocked to IP network PTP

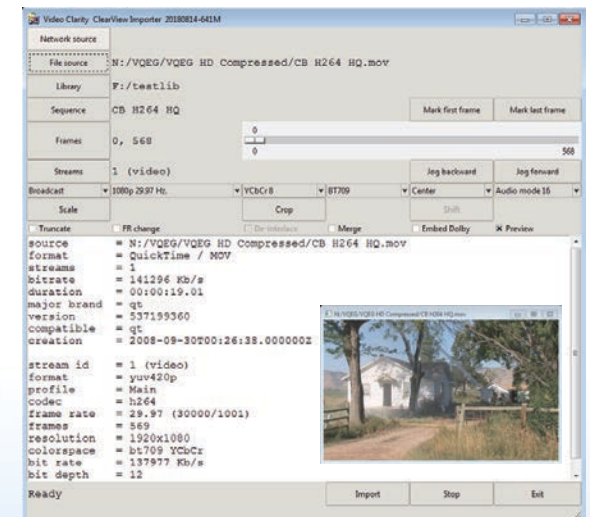
Multiple format payout:

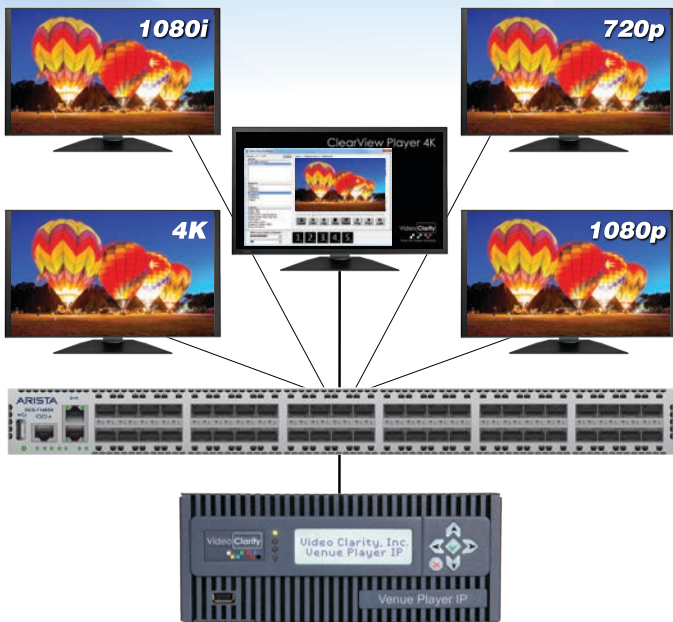
- Mix formats with integer related frame rates
- Lock all sequences to play command

Ingest multiple file types with the included ClearView Importer:

- Uncompressed studio source files
- Compressed media files of all types

ClearView Importer GUI





The Venue Player application has the ability to playback multiple uncompressed resolutions of video with audio at integer related frame rates. This allows source video versus differently processed sequence comparisons to be viewed within each resolution to a choice of monitors.

- Instantly access and playout different formats for delivery applications or as a lab source video server.
- Apply 4K and multiple HD resolutions to assess the effect of different bit rates on video quality after processing.
- Reliably play as many sequences as required up to the system's capacity with 24x7 operation.

Venue Player IP Portable and 2RU Rackmountable



Models: CVVP-2044-IP or CVVP-2084-IP*

Storage: 4.0 TB or 8.0* TB

Includes: Venue Player GUI, CV Player-Recorder, CV-Importer, 2RU rack ears, keyboard, mouse, and system guide PDFs

Option: Venue Recorder CVVR-1L

Video I/O: SMPTE ST 2110-20 and 2022-7

- Record up to two 1080p60 or two 2160p60*

- Play one or two 2160p60* streams

- Play four or eight* HD streams up to 1080p60

Audio I/O: 24 bit, 48 KHz PCM, or DD+

- 16 channels ST 2110-30 audio per video stream

ANC: SMPTE ST 2110-40 record and play

Timecode: According to ST 2110-40

Media Transport Interface: 25 or 10 GbE

- IEEE 802.3by/cc(25G) or IEEE 802.3ae(10G)

- 2 x SFP28 Cages - SFPs not included

- List of compatible transceivers is available

Gigabit Ethernet IP: 2.5G and 1G - on 2 RJ45

- For control or capture-decode of MPEG IP TS

Genlock: ST 2059-2 IP network PTP

NMOS: IS-04 and IS-05 support, JT-NM tested

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

Autodetect, 300 Watts Max

Dimensions: 8.6" W x 3.5" H x 13.5" 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