

AV VIDEO WALL CONTROLLER
VIEWSPAN AV®



VIEWSPAN AV is a customisable video wall solution for AV capture and display



Scalable video wall controller with direct AV capture inputs and FHD or UHD display outputs

VIEWSPAN AV® is a dedicated display wall controller hardware platform with a customisable number and type of AV inputs and up to 32 display outputs.

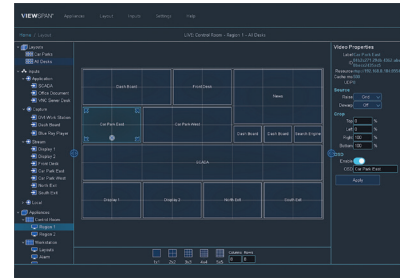
- | Enterprise-level video wall controller for large video walls
- | Single display canvas for up to 32 FHD or 24 UHD monitors
- | Incorporates VIEWSPAN NEXUS® video wall software
- | Compatible with VIEWCAST®, VNC, Applications & web sources
- | Cross-platform web-client interface supporting touchscreen
- | Single management interface for multiple VIEWSPAN units
- | Stretch, size & position content anywhere on the video wall





VIEWSPAN AV[®] systems can integrate video and graphic data for any display configuration

Optional VIEWCAST software allows operator screen streaming to VIEWSPAN AV



The VIEWSPAN NEXUS portal allows multi-monitor layouts to be defined online or offline, saved and selected under operator control via drag-and-drop, touch, or triggered by events.

Display Controllers

The VIEWSPAN[®] range of video wall controllers are specifically designed as enterprise-level systems for scalable content display and management. VIEWSPAN AV[®] variants are true AV solutions, perfectly suited for high quality image and graphic content display applications. AV video walls are used in control rooms, industrial process control, hospitality, conference centres and commercial display applications. Various external AV signal formats can be captured in full-fidelity RGB/YUV for display anywhere on the display canvas, without restriction. Graphics outputs can be FHD (1920 x 1080) or UHD resolution (3840 x 2160).

Optimised Software

All VIEWSPAN systems include the highly optimised and versatile VIEWSPAN NEXUS[®] software for video processing, source and display management. NEXUS handles direct AV capture inputs and video/graphics over IP via the network.

Direct AV Capture

VIEWSPAN AV can be custom configured to accept a wide variety of audio-visual sources (see table on opposite page). These sources are captured in an uncompressed, very high quality format and may be displayed anywhere on the video wall canvas, stretched across multiple or all screens according to pre-defined

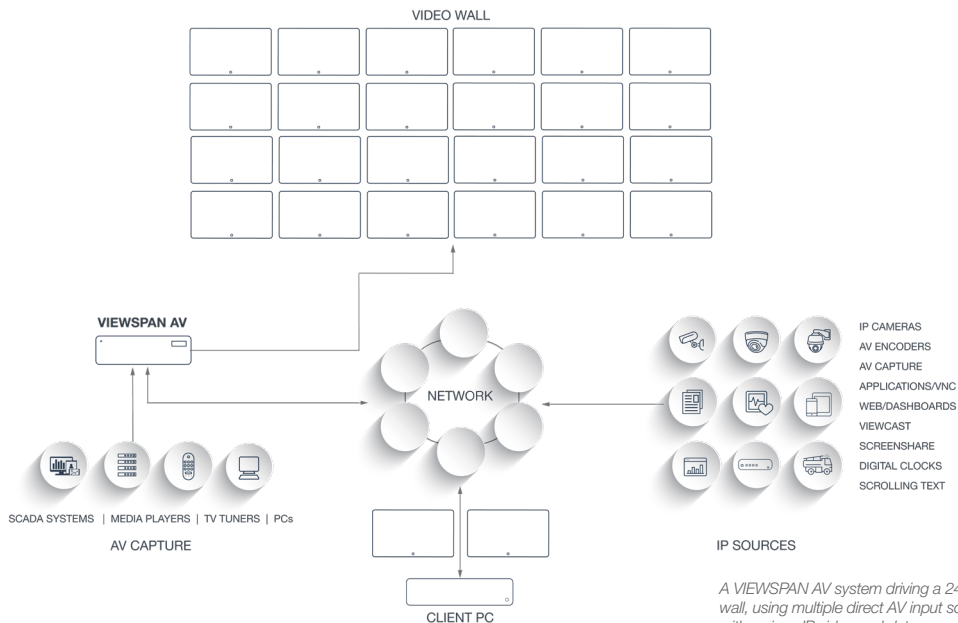
layouts, scheduled layouts or via manual control from the client workstation.

Setup and Configuration

The VIEWSPAN NEXUS software system allows configuration, content management and display control via a web-based portal and therefore any type of client device and OS may be used. NEXUS is designed to synchronise all VIEWSPAN appliances (which can be of mixed types), allowing remote network setup, display arrangement and configuration of integrated VMS or NVR systems.

The web interface supports touch screen and drag-and-drop actions. It allows management of multiple

VIEWSPAN AV[®] Application Diagram



A VIEWSPAN AV system driving a 24 screen video wall, using multiple direct AV input sources combined with various IP video and data sources.

Powered by VIEWSPAN NEXUS® software for maximum performance

VIEWCAST software allows operator screens to be sources for video wall display

VIEWSPAN systems which can be combined for even larger video wall and distributed display solutions.

Regions, Layouts and Items

The diagram shows a 24-screen video wall controller with support for all listed content. The video wall canvas can be split into one or more Regions, each with multiple Layouts. Display Items may come from any of the sources shown. Defined Regions and Layouts can be triggered by alarm events, be scheduled or changed manually by operator control. Multiple Items or streams can be displayed in each Layout (matrix view) or stretched across multiple monitors (span view) without concern for monitor boundaries.

Any Signal Anywhere

Any supported video signal format, from component video to UHD DisplayPort at 60 FPS can be captured, cropped, scaled and displayed anywhere on the video wall canvas. When present, audio capture to audio mixer output is supported. A video wall canvas of up to 24 UHD monitors can be specified.

Operator PC Display

Veracity's optional VIEWCAST software allows capture and streaming of Operator PC desktop screens or applications as authenticated IP video sources into VIEWSPAN AV systems. This is an alternative to direct capture of these sources.

VIEWSPAN® Range

All Veracity dedicated VIEWSPAN server products include the same NEXUS software, (see website for details) which incorporates highly optimised code for high resolution/ high frame-rate video decoding for the smoothest video display performance. This architecture gives the user a true unified software platform for collaboration, viewing and presentation with complete control.

AV models include specialised hardware for accelerated video capture and are specified by the number, type and resolution of AV capture inputs and the number and resolution of monitor outputs.

VIEWSPAN AV® Supported Input Capture Formats

SIGNAL TYPE	MAXIMUM RESOLUTION & FRAMERATE	AUDIO SUPPORT
HDMI 1.3 / 1.4 / 2.0	3840 x 2160 @ 60 FPS	Yes
DisplayPort 1.2	3840 x 2160 @ 60 FPS	Yes
SDI 3G / HD / SD	1920 x 1080 @ 60 FPS	Yes
VGA / RGB	1920 x 1080 @ 60 FPS	No
Component Video	1920 x 1080 @ 60 FPS	Yes
S-Video	PAL / NTSC	No
Composite Video	PAL / NTSC	No

Video capture support for RGB and YUV encoding at 32, 16 and 12 pixel-bit formats. Features include cropping, automatic scaling, no-signal detection and flexible

EDID management. Audio can be injected into the system mixer, controlled through the VIEWSPAN NEXUS portal.

TECHNICAL SPECIFICATION

VIEWSPAN AV®

POWER INPUT Input Voltage Power Supply Power Consumption	100V to 240V AC, 50/60Hz 800W dual-redundant Up to 600W depending on configuration and CPU option
SYSTEM Hardware Processors CPU RAM Operating System Codec Support	4U Rackmount enterprise server system CPU: Intel i7, i9, E3 Xeon or dual E5 Xeon 32GB Windows 10 LTSC, 64bit OS on mirrored 240GB SSD GPU: H.264, H.265, MPEG2, MJPEG, VC8 CPU: All ffmpeg codecs – see www.ffmpeg.org/general.html#Video-Codecs
AV INPUT/OUTPUT Input Method Input Options Stretch Video IP Video Display Output	Direct capture HDMI, DisplayPort, SDI, VGA, Component Video, S-Video, Composite Video Up to 40 inputs can be specified, depending on type Yes, across all screens, (number of screens dependent upon configuration) Up to 10 simultaneous video decodes. Full HD at 30FPS Up to 32 Full HD or 24 UHD display outputs
NETWORK Ethernet	2 x Gigabit Ethernet interfaces
CONNECTIONS Power Ethernet USB AV Input Display Serial	2 x IEC 13 2 x RJ45 2 x USB 3.0 and 6 x USB 2.0 ports Dependent on configurations - specified to order 4 x HDMI per installed graphics card RS232 COM Port
PHYSICAL/ENVIRONMENTAL Form Factor Case Dimensions Weight Operating Temperature Storage Temperature Relative Humidity Safety & Compliance	4U Rackmount case with rails W 482mm x H 175mm x D 500mm [19.00" x 6.89" x 19.69"] 19-25Kg [42-55lbs] depending on configuration 0°C to +35°C [32°F to +95°F] -20°C to +70°C [-4°F to +158°F] 90% non-condensing CE, FCC, UKCA, UL, ROHS and WEEE
PRODUCT CODES VSPAN-AV-X-Y-UK VSPAN-AV-X-Y-EU VSPAN-AV-X-Y-US VW-CAST-KEY	VIEWSPAN AV display wall controller with X direct AV inputs, Y monitor outputs & UK power cables VIEWSPAN AV display wall controller with X direct AV inputs, Y monitor outputs & EU power cables VIEWSPAN AV display wall controller with X direct AV inputs, Y monitor outputs & US power cables VIEWSPAN Desktop screen streamer software licence key

PRODUCT CODE NOTES

AV models are specified by the number of direct AV capture inputs, **X**, and the number of monitor outputs, **Y**, shown above.

For example, VSPAN-AV-12-20-UK specifies a 12-input, 20-output system.

All inputs and outputs are Full HD unless designated as UHD with brackets.

VSPAN-AV-(12)-20-UK specifies 12 UHD capture inputs and VSPAN-AV-12-(20)-UK specifies 20 UHD outputs.

Systems may be UHD for both inputs and outputs, e.g. VSPAN-AV-(12)-(20)-UK specifies 12 UHD inputs and 20 UHD outputs.



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