VIDEO DISPLAY CONTROLLER
VIEWSPAN **One**®

Application | **VIEW**SPAN **One**® combines video matrix display and digital signage capabilities

A fanless, POE powered video display controller for video and digital signage

VIEWSPAN One® decodes and displays a wide range of IP video, graphics, digital signage, web and other data sources

| Single output for a Full HD monitor

| Decoding and display of 9 Full HD streams at 30 FPS

| For spot monitors, auxiliary displays and signage

| Display of IP cameras, web pages, signage and text

| Independent of VMS, supports multiple integrations

| Browser-based integrated management

| 10W power consumption, with POE option included

veracity

VIEWSPAN One® is a fanless, compact, powerful video processor for display of multiple networked data sources

VIEWSPAN One® is a low cost networked display controller device ideal for reception desks, remote monitors, auxiliary displays and digital signage applications

Application | **VIEW**SPAN **One**® perfect for small retail outlets

Configuration and Control via web browser interface

Display Controllers

The VIEWSPAN® range of video display controllers is designed for a wide range of display and AV applications. They are built on dedicated hardware platforms which meet the performance and reliability requirements of video surveillance, security and AV applications.

VIEWSPAN One is a compact, fanless unit, with a single HDMI output for a Full HD monitor. Its single screen output is aimed at auxiliary video display, remote monitors and digital signage applications, including retail and emergency signage.

Optimised Software

The VIEWSPAN system incorporates highly optimised VIEWSPAN NEXUS® video processing software. Combined with NEXUS, VIEWSPAN One hardware produces super-smooth video, decoding up to 9 Full HD 30FPS channels on a full HD monitor display. See the table opposite for full decode performance at various stream resolutions. The larger rackmounted VIEWSPAN variants offer higher performance and multiple display outputs per unit.

Setup and Configuration

A simple web browser interface is used to configure all VIEWSPAN systems, allowing network setup, display arrangement and VMS/NVR integration settings. VIEWSPAN can be directly integrated with the VMS or integrated security management system, or can be used as an accelerator platform for the VMS display, controlling multiple VIEWSPAN units on a client through the web browser interface.

Matrix View and Layout Patterns

VIEWSPAN One can be configured for any layout on the single screen. The layout can display single or multiple video channels in a flexible matrix view, single or multiple signage or graphics, or a combination of both. Screen layouts

VIEWSPAN One® APPLICATION DIAGRAM
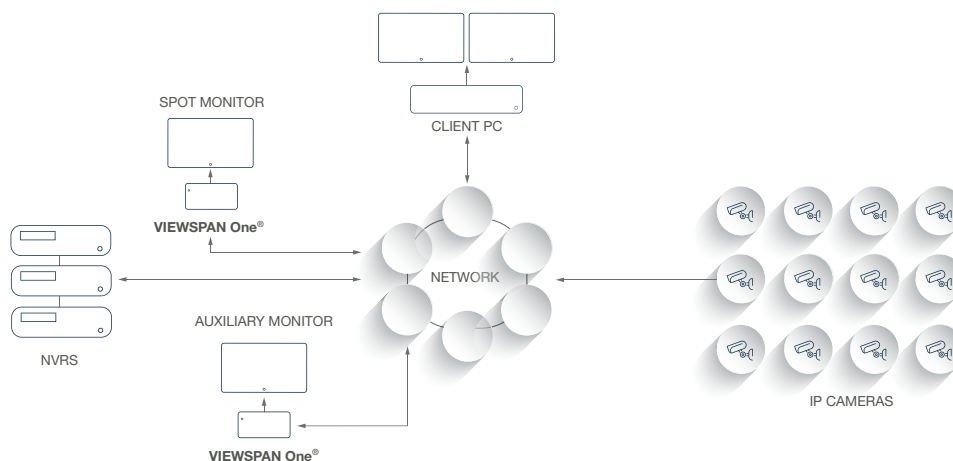
The diagram shows a VIEWSPAN One driving a spot monitor at an operator workstation and another VIEWSPAN One driving an auxiliary monitor elsewhere on the network (e.g. reception desk).

Displayed video streams may come from any source, including IP cameras, NVRs or even the Client PC (using VIEWCAST). Multiple streams can be displayed on each monitor (matrix view).

Application | VIEWSPAN One® for reception areas in the medical sector

VIEWSPAN One® can simultaneously decode and display up to 9 Full HD 30FPS video streams

The compact, fanless device is ideal for direct monitor mounting for digital signage applications
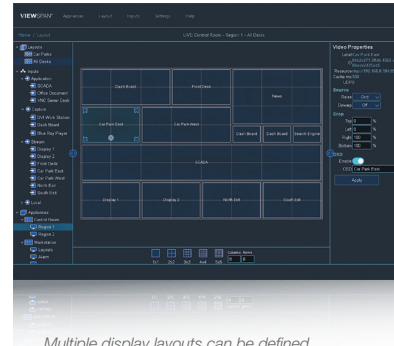
Multiple display layouts can be defined, saved and selected under operator control or triggered by alarms.

(and display sources) can be selected manually through the web interface or automatically via time schedules or triggered via networked alarms.

Video Stream Decoding

VIEWSPAN® devices can decode almost any video stream format, with the most common being H.264 and H.265 for surveillance applications, at any resolution and frame rate. A higher number of streams can be decoded and displayed simultaneously if the resolution and/or frame rate is lower. For live video display applications, it is preferable to maintain a high frame rate (25 or 30FPS) for smooth video. Display of 1, 4 or 9 IP camera streams or a single digital graphic or video

are the most typical applications for VIEWSPAN One.

Input Sources

All VIEWSPAN systems can display video, graphics and data from many sources. These include AV (audio-visual) sources, IP cameras, NVR video playback, web pages, application screen capture (see VIEWCAST), encoders, digital signage, scrolling text, time and date. All of these sources can be decoded, scaled and displayed anywhere on the display screen. Pre-loaded (i.e. locally-stored) images and graphics may also be displayed for advertising, information or emergency signage applications.

VIEWSPAN® Range

A range of VIEWSPAN models suit different applications. All models run on the VIEWSPAN NEXUS software platform, (available as a software-only licence). VIEWSPAN Plus 6, 9 and 12 screen models offer up to nine Full HD decodes per screen, with higher densities in the VIEWSPAN Pro range.

VIEWSPAN AV can be specified to suit customer requirements including multiple direct AV capture inputs. VIEWCAST® is a screen capture software utility which generates VIEWSPAN® video streams from desktops or applications on Windows PCs.

VIEWSPAN One®, VIEWSPAN Solo® and VIEWSPAN Plus® Performance Table

PERFORMANCE TABLE		MAXIMUM NUMBER OF SIMULTANEOUS DECODE CHANNELS AT 30 FPS		
IP VIDEO INPUT (RESOLUTION)	IP VIDEO INPUT (REFERENCE)	VIEWSPAN One®	VIEWSPAN Solo®	VIEWSPAN Plus® Series 6 or 9 or 12 Outputs
720 x 480 or 576	NTSC or PAL D1	16 ch	48 ch	84 ch, 120 ch, 120 ch
1280 x 720	720p HD	9 ch	36 ch	72 ch, 108 ch, 120 ch
1920 x 1080	1080p Full HD	9 ch	25 ch	54 ch, 81 ch, 108 ch
Display Outputs, Type & Resolution		1 x HDMI (FHD)	1 x HDMI (FHD/UHD) or 1 x HDMI (FHD) + 1 x VGA (FHD)	6, 9 or 12 x mini DisplayPort (FHD or UHD)

The table shows the number of video input channels which can be simultaneously decoded at a given input resolution. However, the displayed resolution of each individual channel will be dictated by the display screen resolution, layout pattern and number of screens available.

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TECHNICAL **SPECIFICATION**

VIEWSPAN One®

POWER INPUT

Input Voltage	12V DC input, (100V/240V AC, 50/60Hz to 12V DC power supply included) POE power input option via compact POE splitter (included).
Power Consumption	10W typical, 16W maximum

SYSTEM

Hardware	Industrial mini PC board with high performance Intel CPU & GPU OS on mSATA SSD, 4GB DDR RAM
Processors	CPU: Intel; GPU: Intel
Operating System	Windows 10 LTSC, 64bit
Codec Support	GPU: H.264, H.265, MPEG2, MJPEG, VC8 CPU: All ffmpeg codecs – see www.ffmpeg.org/general.html#Video-Codecs

PERFORMANCE

Decode Channels	All at 30 FPS (higher channel counts available with lower frame rates) 16 ch at D1 incoming resolution 9 ch at 720p HD incoming resolution 9 ch at Full HD incoming resolution

NETWORK

Ethernet	2 x Gigabit Ethernet interface

CONNECTIONS

Power	DC jack
Ethernet	2 x RJ45
USB	2 x USB 2.0, 2 x USB 3.0
Display	1 x HDMI 2.0

PHYSICAL / ENVIRONMENTAL

Form Factor	Mini PC (fanless)
Case Dimensions	W 93mm x H 24mm x D 173mm inc connectors [3.66" x 0.94" x 2.87"] Weight 793g [1.75lbs]
Operating Temperature	0°C to +40°C [32°F to +104°F]
Storage Temperature	-20°C to +60°C [-4°F to +140°F]
Relative Humidity	85% non-condensing
Safety & Compliance	CE, FCC Class A, ROHS and WEEE, UKCA

PRODUCT CODES

VSPAN-ONE-UK	**VIEWSPAN One video display controller, UK power cable (or POE)**
VSPAN-ONE-EU	**VIEWSPAN One video display controller, EU power cable (or POE)**
VSPAN-ONE-US	**VIEWSPAN One video display controller, US power cable (or POE)**