

VZ-C6 Visualizer System



Driving the Creation of Knowledge

VZ-C6 Ceiling Visualizer System

WolfVision is a worldwide provider of products and services to leading universities, businesses, schools, and other organizations. An acknowledged 'technology leader' in the Visualizer and presentation solutions market, WolfVision is the company that takes the lead, setting standards worldwide for innovative, reliable, user-friendly, high performance presentation solutions.



The ceiling-mounted VZ-C6 ensures that nothing obstructs the view between the presenter and the audience during a presentation. It comes with a native 1080p HD camera, Synchronized Lightfield, and multimedia HD recording functionality.



Our extensive knowledge and expertise across all application sectors enables us to offer comprehensive consultative guidance on customized combinations of Visualizer hardware, software, and accessories, which enhance communication, collaboration, and knowledge sharing across all environments. As part of each individual ✓Solution we offer not only pre-sales advice, but also post-sales support, training and service, ensuring that you receive maximum benefit from your investment.

Driving the Creation of Knowledge. Since 1966.



reddot design award
winner 2013



Our Vision

When you've got something to say, we believe it is important that getting your message across and making an impact should be as easy as possible.

Our aim is to help you to explain it better, to give you the freedom to share your knowledge with others - however you want, and whenever you want, when your audience is in the same room or on the other side of the world.

**Because knowledge matters -
to all of us.**

High Performance Imaging

WolfVision Visualizers are well-known for their unrivalled imaging quality, which is due to the perfect combination of high quality components and remarkable expertise. Our systems deliver high resolution throughout the entire picture, true-to-life colors, and consistently high frame rates to ensure smoothness of motion. They have fast and accurate autofocus and zooming, giving high quality dependable results every time! High end lenses provide distortion-free images, and high tech lighting systems deliver smooth and consistent lighting without distracting reflections or hot spots.

WolfVision's state-of-the-art YSOP1 image processing engine enables the fast and efficient processing of high volumes of data ensuring the consistent real-time display of impressive high definition pictures with unsurpassed levels of accuracy and detail.

High End Optics

Large premium quality lenses provide unrivalled imaging performance.



Image Sensor

WolfVision's high resolution image sensors ensure the capture of high quality image data.



Software (Firmware)

Sophisticated software maximises the hardware potential to guarantee excellent picture quality.

Electronic Hardware

High quality components deliver high performance, stability, and reliability.



Light System

A high-brightness light projector with low power consumption provides smooth and consistent lighting for accurate color reproduction.



Unique Features



High Resolution Camera

A high definition 1-CMOS camera with 30 frames per second, sRGB color precision and 1080p HD native image format gives 980 lines of visible resolution in every part of the picture.

Large Zoom Range

An impressive zoom range of 48x (12x optical and 4x digital) allows for zooming in very closely as well as picking up very large objects when required.

High Depth of Focus

A wide angle lens with a very high depth of focus ensures that even at high magnification, images are always sharp from top to bottom.

Easy to Use

Users only need to use the zoom keys on the remote control as all other controls such as focus, brightness, etc., are adjusted automatically.

100% Reflection-Free

The advanced light system ensures that no light from the Visualizer is reflected back into the camera. The entire working surface is always 100% reflection-free.



Recording Made Easy

HD Video Recording

The VZ-C6 Ceiling Visualizer system features onboard recording functionality that allows entire presentations and lectures to be captured including the audio. It's the quickest and easiest solution for in-house production of training videos or lecture capture. The VZ-C6 is an impressive 'all-in-one HD recording solution'.

The easy-to-use interface requires no advanced technical knowledge, and by using the pause button, multiple segments of a presentation can be recorded and saved as a single file, eliminating the need for subsequent editing and time-consuming post-production. A line level input is provided for situations where audio capture is required.



Creating Unique Multimedia Presentations

The recording functionality of the VZ-C6 is not limited to the Visualizer's own camera. External content such as PowerPoint, digital images, webpages, PDF's, etc. from a PC or tablet con-

nected to one of the Visualizer's HDMI In ports can be easily recorded together with voiceover audio in 720p HD resolution with a frame rate of up to 30 fps.



Flexible Memory Options

Recorded videos and pictures can be saved to the 8GB Visualizer system internal memory which has enough capacity to store thousands of images, or an average of 10 hours of video

footage (depending on the content). Alternatively USB sticks or external hard drives can also be used to provide additional storage space if required.

User-Friendly Operation

Intuitive Positioning - Synchronized Lightfield

A light projector inside the VZ-C6 projects a lightfield the same size as the pick-up area of the built-in camera onto the working surface. The lens of the light projector and the camera are synchronized so that when zooming in and out, the size of this lightfield changes accordingly. The illuminated part of the working surface is always identical to the pick-up area of the camera. So a user always knows exactly where to place objects or documents.



Perfect Illumination / Adjustment-Free Lighting

Due to the special light system of the VZ-C6, every part of the recorded picture is always perfectly illuminated. Hollow objects or complex 3-dimensional objects

are always completely illuminated - even on the inside. As a result, there is never any need to adjust the light.



Illuminated on the inside



Not illuminated on the inside

Shadow-Free Images

As the camera and the light projector are situated side by side inside the VZ-C6 and follow the same path, shadows are almost completely eliminated. During a presentation, it is often neces-

sary to write on a document on the working surface or to point to a detail with a finger or a pencil. There are practically no shadows created, that might otherwise cover up important details.



Shadow-free



With shadows

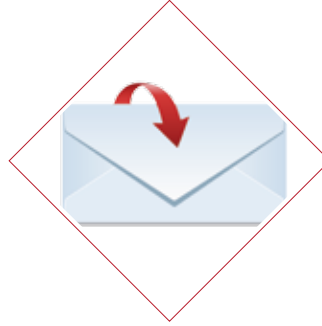


Innovative Sharing Options



Efficient Knowledge Transfer via Streaming

The VZ-C6 or connected WolfVision vSolution Link software can stream video and audio to computers, tablets or smartphones on the internal network or the internet using either H.264, Motion JPEG, or RTP Motion JPEG modes. An external device receiving the Visualizer's stream can also be used as a larger control monitor.



Quick and Convenient Distribution

WolfVision offers several possibilities for taking snapshots with the VZ-C6 Visualizer system, and emailing or printing them using our software components. This facilitates quick and easy distribution of materials during a presentation when required.



Easy Cloud Storage / FTP Upload

vSolution Connect software for iPad facilitates uploading and downloading of material to and from Dropbox. When using vSolution Connect during a presentation, content stored in Dropbox is always easily available. Adjustable Visualizer settings also enable videos and pictures to be either automatically or manually uploaded directly from the VZ-C6 to an FTP server if required.



Flexible Network Integration

Wired or Wireless Network Connection

For maximum stability and reliability, VZ-C6 Visualizers can be connected to existing wired LAN infrastructure using encrypted security. Ethernet functionality of the Visualizer can be restricted and access can be password protected. For quick and easy installation, the VZ-C6 can also be integrated into existing wireless LAN infrastructure using encrypted security.

Wireless Encryption

The VZ-C6 Visualizer supports WEP, WPA and WPA2 wireless encryption. This allows for straightforward integration into the enterprise level IT networks commonly found in universities and other organizations, and ensures that no compromises in network security are required.

Single User Authentication

When using a smartphone or iPad with the Visualizer, Single User Authentication ensures a quick and easy wireless connection between device and Visualizer, and prevents any third party from interrupting the connection during a presentation.

Wireless Connectivity (Access Point)

The VZ-C6 can also be configured to operate using an encrypted ad-hoc wireless network. This 'standalone' option allows for the direct wireless connection of smartphone, tablet, and PC devices, and means that full bandwidth is available for Visualizer use.



Bring Your Own Device

✓Solution Connect for iPad

Sync your WolfVision Visualizer with vSolution Connect, our powerful, innovative app for iPad with a full multi-media control dashboard. This unique app allows all media types to be integrated and controlled from a single device, enabling materials stored either locally on the iPad or in Dropbox to be added seamlessly into presentations.

The easy-to-use recording functionality of vSolution Connect also enables entire presentations including any external content, to be recorded, and saved to the iPad's memory. A Live Image Preview shows exactly what the audience sees onscreen at all times and wireless connectivity allows presentations or lectures to be delivered from anywhere in the room.

The annotation feature is ideal for making notes, sketching, and highlighting documents, charts, and pictures. A dedicated whiteboard function also provides a separate space for making and displaying notes onscreen during a presentation.



++ Video ++

Transforming Presentations

✓Solution Control for Smartphones

The vSolution Control App enables Wolf-Vision Visualizers to connect to an iPhone, Windows 8, Windows Phone 8 or Android device via WLAN. This intuitive and easy to use app allows presenters to use the device keypad and Live Image Preview to control a presentation or lecture wirelessly whilst moving freely around a room.



✓Solution Link for PC and Mac

vSolution Link allows a user to connect a computer directly to a Visualizer. This software allows for saving, printing and emailing of images, recording of videos, adding annotations and video streaming. It also provides useful tools for automatically applying Visualizer firmware updates, allowing new features and technical improvements to be added at no cost!



			
Fast Multimedia Source Switching*	✓	✓	✓
Visualizer Remote Control*	✓	✓	✓
Live Image Preview	✓	✓	✓
Image Snapshot*	✓	✓	✓
Video Recording with Audio*	✗	✓	✓
Image Annotation	✗	✓	✓
Live Web Streaming*	✗	✗	✓
Access to Web-based Material	✗	✓	✓
Display Content From Device	✗	✓	✓
Multiple Source Preview	✗	✓	✗

*Included Visualizer feature - also works without software!
More features available in future releases!



Technical Data

	VZ-C6
Camera	1-CMOS 1/3" Progressive Scan
Pictures per second (as picked up by the camera)	30 frames (in all resolutions)
Effective pixels (= pixels actually used for image information)	1920x1080 (=2,073,600)
Total pixels of camera sensor	2,073,600
Pixels processed per second	62,208,000
Color reproduction / precision	very good colors (sRGB color precision)
Native signal output	1080p HD (1920x1080)
Converted output signals (4:3 and 5:4)	UXGA (1600x1200), SXGA (1280x1024), XGA (1024x768), SVGA (800x600)
Converted widescreen output signals (16:9 and 16:10)	WUXGA (1920x1200), WXGA (1280x800), 720p HD (1280x720)
Resolution (measured)	980 lines
Brightness control	automatic and manual
White balance adjustment	automatic and manual
Autofocus / speed	yes (continuously working, high speed)
Manual focus	yes
Synchronized lightfield (for easy positioning of objects)	yes
Live to Freeze comparison (Picture in Picture & Side by Side)	yes
On screen menu with Help	yes
Firmware updates via	USB, LAN, USB stick
Zoom / Lens	Wide-angle zoom lens, 48x zoom (12x optical + 4x digital)
Max. object height on working surface	no limit
Max. pick-up area on working surface	depending on installation height (904 – 1748mm / 35.6" – 68.8")
Min. pick-up area on working surface	depending on installation height (89 – 138mm / 3.5" – 5.4")
Depth of focus on small object (42x33mm)	larger than 20mm (0.8")
Depth of focus on large object (360x270mm)	larger than 250mm (9.7")
Shadow free illumination	yes
Illumination of hollow objects	yes
Light source	Maintenance free high-brightness LED light system (high light output, low power consumption), lamp lifetime: 30,000 hours
vSolution Link Software (USB / LAN, for controlling, image and video capturing and firmware updates)	included for 32- and 64-bit Windows + Macintosh, Twain/WIA compatible, with video capture driver
UVC Driver for Windows, Linux, and OS X (Mac)	yes
User programmable presets	3
User defined Visualizer settings on USB stick	yes
Reflection free area on working surface	whole working surface
Special working surface for transparencies	with optional working plate
Slide pick-up	with optional lightbox
Bottom light	optional external lightboxes (large models like WolfVision's LB-38 can be used)
External computer input / Input switch	yes, 2X HDMI (DVI or Display Port via optional adaptor or cable) and WLAN
Seamless cross-fading between image sources	yes
WolfVision image processing engine YSOP1	yes
Image memory	8GB internal memory + additional storage on USB stick or external hard drive
Browsable image memory (scrollable thumbnails + 1 larger preview image)	yes
Connectors	2x HDMI In, 1x HDMI Out, RGB, IP-Addressable LAN Port 10/100 Mbps, USB Device Port, 2x USB Host Ports, Audio Line in, Audio Line out, IR-Extern
Outputs	HDMI, (DVI output via optional HDMI-DVI cable or adaptor), RGB
LAN streaming modes (multicast and unicast)	H.264, Motion JPEG, RTP Motion JPEG including audio
WLAN (Dual band stick included for 2.4GHz & 5GHz)	yes
Onboard video recording including audio	yes (720p HD, up to 30 frames per second, AVI container, H.264 codec, .AVI file extension)
Audio	yes (Line In, Line Out)
RS232 port	no (if required external LAN to RS232 adaptors can be used)
Advanced controlling with professional protocol	yes (via LAN and USB)
Dimensions (L x W x H)	478mm x 125mm x 178mm (18.8" x 4.9" x 7.0")
Weight	4.8kg (10.6lbs)
Infrared remote control	yes (with laserpointer). Optional external receiver (with 10m cable and status LED)
Ceiling mount	included
Power	Internal power supply, multi range 100-240V, power consumption: 50W, adjustable standby power consumption
Warranty	5 years

All units made in Austria, Europe.

Design and specifications subject to change!

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