# VZ-8 Visualizer Systems

# Driving the Creation of Knowledge

VZ-8light[4] and VZ-8plus[4] Desktop Visualizer Systems

WolfVision is a worldwide provider of systems 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 popular RedDot Design Award winning fourth generation VZ-8 Series Visualizers offer quick and efficient handling of multimedia presentation content, and can be customized using WolfVision feature packs, software, and accessories to provide an impressive all-in-one presentation solution.
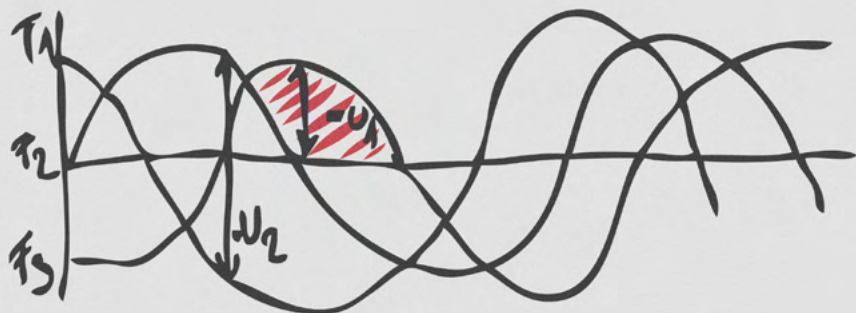
Our extensive knowledge and expertise across all application sectors enables us to offer comprehensive consultative guidance on customized combinations of Visualizer hardware systems, software, and accessories, which enhance communication, collaboration, and knowledge sharing across all environments. 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.

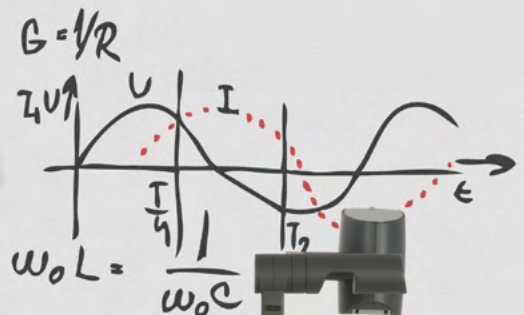Driving the Creation of Knowledge. Since 1966.

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TÜV NORD — TÜV NORD CERT GmbH — DIN EN ISO 14001
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## 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 and collaborate 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.
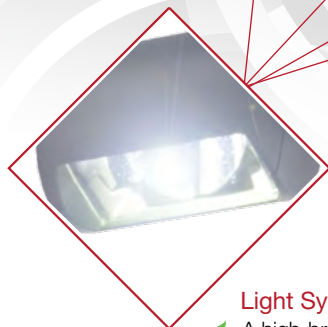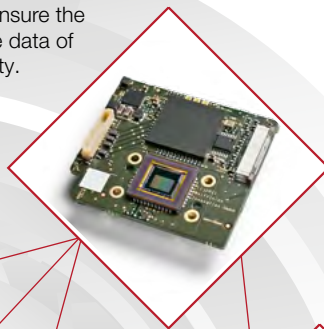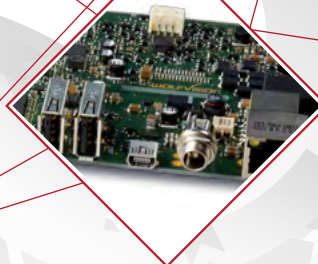
### Image Sensor
WolfVision's high resolution image sensors ensure the capture of image data of the highest quality.

### High End Optics
Large premium quality lensesprovide unrivalled imaging performance.

### 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 LED lamp with low power consumption provides smooth and consistent lighting for accurate color reproduction.

++ Video ++

# Unique Features

## Large Zoom Range

14x optical zoom gives great flexibility in presentations - objects as large as an open book or as small as a postage stamp can easily be picked up, and for enlarging even smaller objects, a 2x digital zoom is also provided.

## Flexible Memory Options

Nine images can be stored in the internal memory of the VZ-8plus[4] and recalled instantly using the infrared remote control. The image memory can be expanded by connecting USB sticks to the USB Host port. These memory features are also available on the VZ-8light[4] with 'Remote Pack' option.

## Rotating Camera Head

The rotating camera head allows imaging from virtually any angle, and high-grade mechanical components ensure a stable mount for the camera.

## Live Image Preview Monitor (VZ-8plus[4])

The VZ-8plus[4] features a built-in LCD preview monitor which makes it easy to position an object correctly on the working surface.

## Easy to Use / Zoom Wheel

For basic operation, users only need to use the zoom wheel on top of the camera head (or the zoom keys on the remote control) as all other controls such as focus, brightness, etc., are adjusted automatically.

## Power Over Ethernet Plus

The LAN port of the VZ-8 Series Visualizers includes Power over Ethernet Plus (PoE+) functionality, compatible with devices meeting the IEEE 802.3at industry standard. Power over Ethernet is a popular way of saving on cables and installation costs.

## Write On Your Visualizer

Self-adhesive dry-erase working surfaces are available as optional accessory items. When fixed to the working surface you can write onto, and erase directly from the Visualizer working surface using whiteboard markers and erasers.

## Powerful HD Cameras

The VZ-8plus[4] features a native 1080p HD CMOS camera with 60 frames per second. The VZ-8light[4] comes with the same camera with 30 frames per second.

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+ 3D Model +

# Feature Pack Options

VZ-8light[4] and VZ-8plus[4] Visualizer systems can be upgraded using our feature packs to provide additional features and functionality - this gives you unrivalled flexibility when selecting your system. In the case of the VZ-8light[4] each feature pack functions as a stand-alone upgrade and they are not dependent on each other.

## Remote Pack (VZ-8light[4])

The Remote Pack for the VZ-8light[4] is an outstanding upgrade for this popular model. In addition to the provision of an infrared remote control, the accompanying firmware upgrade also activates the 9 image internal memory, seamless cross-fading between image sources, a Picture-in-Picture comparison feature, and the USB host port (USB memory sticks can be used).
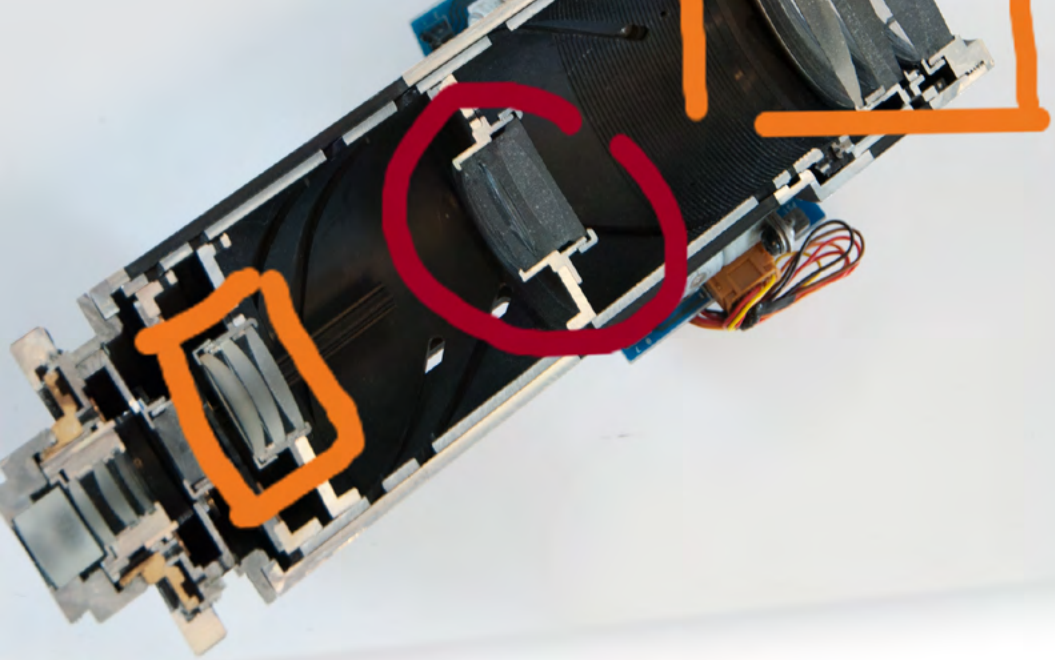
## BYOD Pack (VZ-8light[4], VZ-8plus[4])

The BYOD Pack is available for VZ-8light[4] and VZ-8plus[4]. It provides a WLAN stick and firmware upgrade which gives wireless connectivity using either 2.4GHz or 5GHz channels. This provides for quick and easy connection to wifi enabled smartphones or laptops, and also enables our vSolution Connect for iPad app to be used in combination with these units.

| | 8light | 8light + | 8light + | 8plus | 8plus + |
|---|---|---|---|---|---|
| 14x optical zoom + 2x digital zoom | ✓ | ✓ | ✓ | ✓ | ✓ |
| Native resolution 1080p HD | ✓ | ✓ | ✓ | ✓ | ✓ |
| USB and LAN port | ✓ | ✓ | ✓ | ✓ | ✓ |
| High speed autofocus | ✓ | ✓ | ✓ | ✓ | ✓ |
| HDMI output | ✓ | ✓ | ✓ | ✓ | ✓ |
| Smartphone remote compatible | ✓ | ✓ | ✓ | ✓ | ✓ |
| Infrared remote control | ✗ | ✓ | ✗ | ✓ | ✓ |
| Memory extension via USB stick | ✗ | ✓ | ✗ | ✓ | ~ |
| 9 image internal memory | ✗ | ✓ | ✗ | ✓ | ✓ |
| Seamless cross-fading between image sources | ✗ | ✓ | ✓ | ✓ | ✓ |
| User defined settings can be stored on USB stick | ✗ | ✓ | ✗ | ✓ | ~ |
| Live to freeze comparison (Picture in Picture) | ✗ | ✓ | ✓ | ✓ | ✓ |
| LCD live preview monitor | ✗ | ✗ | ✗ | ✓ | ✓ |
| 60 frames per second in all resolutions | ✗ | ✗ | ✗ | ✓ | ✓ |
| H.264 video streaming via LAN | ✗ | ✗ | ✗ | ✓ | ~ |
| BYOD (vSolution Connect support) | ✗ | ✗ | ✓ | ✗ | ✓ |
| WLAN support | ✗ | ✗ | ✓ | ✗ | ✓ |

~ denotes feature that is not available when vSolution Connect is in use with the Visualizer.

# Innovative Sharing Options

### Efficient Knowledge Transfer via Streaming

The VZ-8plus[4] Visualizer or connected 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 VZ-8 Visualizer systems, 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 (Dropbox)

Using the BYOD Pack together with 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.

# Flexible Network Integration

## Wired or Wireless Network Connection

For maximum stability and reliability, VZ-8 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. Using the optional BYOD Pack adds wireless connectivity and facilitates integration into existing wireless LAN infrastructure using encrypted security.

## Wireless Encryption

VZ-8 Visualizers with the BYOD Pack upgrade support 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)

VZ-8 Visualizers with BYOD Pack 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. It gives users maximum flexibility, particularly if a Visualizer is required to be used in multiple locations.

# Bring Your Own Device

## √Solution Connect for tablets

Sync your WolfVision Visualizer with vSolution Connect, our powerful app for iOS, and Android tablets. Using this multimedia control dashboard enables all media types to be integrated and controlled using a single device. Content materials can easily be prepared in advance and added seamlessly into presentations when required.

The app also allows entire presentations including any external content to be recorded, and saved to the tablet memory. A Live Image Preview shows exactly what the audience sees on-screen 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 on-screen during a presentation.

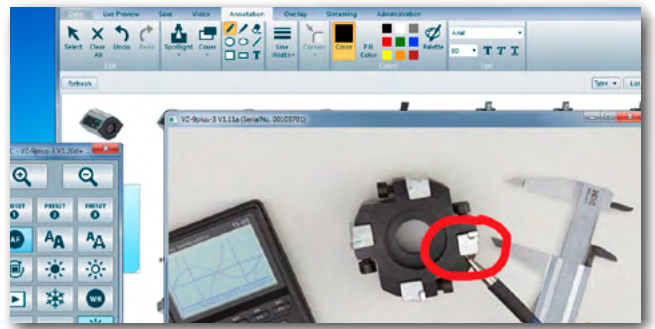++ Video ++

# Transforming Presentations

## √Solution Control for Smartphones

The vSolution Control App enables WolfVision 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 | ✗ | ✓ | ✓ |
| Image Annotation | ✗ | ✓ | ✓ |
| Live Web Streaming | ✗ | ✗ | ✓ |
| Access to Web-based Material | ✗ | ✓ | ✓ |
| Display Content From Device | ✗ | ✓ | ✓ |
| Multiple Source Preview | ✗ | ✓ | ✗ |

# Technical Data

| | VZ-8light[4] | VZ-8plus[4] |
|---|---|---|
| Camera | 1-CMOS 1/3" | |
| Pictures per second (as picked up by the camera) | 30 frames in all resolutions | 60 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 (=effective pixels x frames per sec.) | 62,208,000 | 124,416,000 |
| 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) | 720p HD (1280x720), WXGA (1280x800), WUXGA (1920x1200) | |
| Resolution (measured) | 980 lines | |
| Brightness control / Exposure | automatic (manual in on-screen menu or with optional Remote Pack) | automatic and manual |
| White balance adjustment | automatic and manual | |
| Autofocus / Speed | yes (continuously working, high speed) | |
| Manual focus | yes | |
| Built-in LCD preview monitor | - | yes |
| Live to Freeze Comparison (Picture in Picture) | optional (with Remote Pack) | yes (still image is a small picture, integrated into the large live image) |
| On screen menu and on screen help | yes | |
| Firmware Updates via | USB, LAN, USB stick | |
| Zoom / Lens | 28x zoom (14x optical + 2x digital), with 2-speed zoom wheel | |
| Max. object height on working surface | 120mm (4.7") in tele position 300mm (11.8") in wide | |
| Max. pick-up area on working surface | length: 300mm (11.8"), width: 400mm (15.8") | |
| Min. pick-up area on working surface (full resolution, optical zoom) | 29x16mm (1.1" x 0.63") | |
| Min. pick-up area on working surface (with digital zoom) | 15x8mm (0.59" x 0.31") | |
| Max. pick-up area outside of working surface | unlimited | |
| Depth of focus on small object (42 x 33 mm) | 7mm (0.3") | |
| Depth of focus on large object (360 x 270 mm) | 200mm (7.9") | |
| Tilt range of camera | 220° (120° to speaker + 100° to audience) | |
| 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 and Macintosh, Twain/WIA compatible, with video capture driver) | |
| vSolution Cynap compatible | yes | |
| Reflection-free area on working surface | whole working surface | |
| Recordings outside of the working surface | yes (to the back and to the front of the unit) | |
| Automatic image flip | yes (for recordings to the front of the unit) | |
| Intelligent folding system | pneumatic arm, 2-step set up | |
| User programmable presets | 1 (3 presets with optional Remote Pack) | 3 |
| User defined Visualizer settings on USB Stick | optional (with Remote Pack) | yes |
| Special working surface for transparencies | yes | |
| External computer input / Input switch | yes, HDMI (DVI or DisplayPort via optional adaptor or cable) | |
| Seamless cross-fading between image sources | optional (with Remote Pack) | yes |
| WolfVision image processing engine "YSOP1" | yes | |
| Image memory | 1 image freeze (or 9 pictures in internal memory + unlimited number on USB stick with optional Remote Pack) | 9 pictures in internal memory + unlimited number on USB stick |
| RGB output | one (15-pin D-Sub/VGA-plug) | |
| DVI output | - (via optional HDMI-DVI cable or adaptor) | |
| HDMI output | yes | |
| USB port / standard | USB 2.0 device port (plus USB host port with optional Remote Pack) | USB 2.0 device port and USB 2.0 host port |
| RS232 port (serial protocol with position setting and status report) | - (if required external LAN to RS232 adaptors can be used) | |
| Ethernet / LAN port | yes, with PoE+ | |
| LAN web interface | yes | |
| LAN streaming modes (multicast and unicast) | - | H.264, Motion JPEG, RTP Motion JPEG |
| WLAN (Dual band stick for 2.4GHz and 5GHz) | Optional: with BYOD Pack | |
| Advanced controlling with professional protocol via LAN & USB | yes, via LAN and USB | |
| Weight | 5 kg (11 lbs) | |
| Infrared remote control | optional infrared (with Remote Pack) | yes |
| Anti-theft device | T-Lock (Kensington® Lock) and table lock bolt | |
| Power (external power pack on portable units) | External power pack: multi range 100-240 V, power consumption: 16W in full operation and between 0.5W and 6.6W in standby modes (adjustable), Power over Ethernet plus (IEEE 802.3at standard) | |
| Carrying case | optional | |
| Warranty | 5 years | |

*All units made in Austria, Europe.*  *Design and specifications subject to change!*

Your WolfVision Partner:

More information:

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