

Touchboards

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WOLFVISION®

VZ-8light⁴ and VZ-8plus⁴



Quality imaging
you can trust

Setting a High Standard

VZ-8light⁴ and VZ-8plus⁴ Desktop Visualizers



WolfVision is a globally successful family owned company based in Austria/Europe. As 'technology leader' in the Visualizer market, WolfVision is the company that sets the worldwide standards of product quality, innovation, reliability and ease of use.

WolfVision's popular VZ-8 Series Visualizers have become a worldwide standard in a large number of universities, schools and enterprises in recent years. The new fourth generation VZ-8 Series units build on this outstanding success, they come with an elegant redesigned housing, feature a superb native 1080p HD camera, and are equipped with WolfVision's new YSOP1 image processing engine.

WolfVision's high quality standards can be seen throughout the entire company, from research and development to purchasing, manufacturing, quality control, sales and support.

Outstanding Mechanical Stability and Long Lifetime

Mechanical quality, durability and reliability are basic requirements for all WolfVision products. They are built to last for a very long time.



Excellent Picture Quality

WolfVision Visualizers have always been well-known for their outstanding picture quality, which is due to a perfect mix of high end components and remarkable know-how. Perfect picture quality means high resolution throughout the entire picture (including the edges). It means lifelike colors, a high frame rate, fast and precise autofocus, smooth zooming, an overall distortion free picture, even lighting without reflections or hot spots and much more.

The picture quality of a Visualizer or camera can only be as good as it's weakest component. The following five basic elements are responsible for perfect picture quality:



Main Features

Large Zoom Range

A large optical zoom range is one of the most important features of a Visualizer, because only an optical zoom can pick up objects in full resolution.

WolfVision's 14x optical zoom offers the possibility to pick up objects as large as an open book and as small as a postage stamp in full size to fill the screen. For enlarging even smaller objects the Visualizer also offers 2x digital zoom.

No Light Adjustments Necessary

The light system is optimized for the working surface, so there is never a need to make any light adjustments.

High End Camera

A high definition CMOS camera with 1080p HD native image format gives 980 lines of visible resolution in every part of the picture, including the edges.

Computer Input (HDMI)

During a presentation, the Extern key of the Visualizer can be used to switch between Visualizer images and computer images from a PC that is connected to the Visualizer external input.

Live Image Preview Monitor (VZ-8plus⁴)

The VZ-8plus⁴ features a built-in LCD preview monitor which makes it easy to position an object correctly on the working surface.

Reflection-free Working Surface

With the special design of the Visualizer housing, the entire working surface is completely reflection-free. Optional dry-erase working surfaces are also available.

Easy to Use / Zoom Wheel

For smooth presentations, it is very important that a Visualizer is extremely easy to use. Less experienced users only need to use the zoom wheel on top of the camera head (or the zoom keys on the remote control) as everything else (focus, brightness, etc) is adjusted automatically.

220° Tilt Range of Camera

The VZ-8 Series camera can be tilted 100° towards the audience and 120° towards the speaker, enabling it to be used like a video camera to record people, large objects or pictures, either from in front of or behind the unit, or when objects on the working surface need to be shown from the side.

Unique Folding System

The Visualizer can be set up in seconds. A gentle tug lifts the arm and light into the working position, and just as easily, it folds back into its compact size, to be neatly stored during or after a presentation. The units fit perfectly in a drawer. The height when folded is only 137mm / 5.39".

Anti-theft Devices

There is a thread on the bottom of the working plate for attaching the unit to a table with the supplied table lock bolt. T-Lock devices can also be used.



VZ-8 Series Options

The VZ-8light⁴ Visualizer includes all the standard features that every user requires. The VZ-8plus⁴ comes in the same housing but has additional features - and it's the first Visualizer world-wide with a frame rate of 60 fps (frames per second) at native 1080p HD resolution, allowing for smoother motion and faster autofocus than ever before.

The VZ-8light⁴ can be upgraded to include some extra useful features using the optional "Feature Pack" (FP)* as detailed in the table below. The VZ-8 Series model options provide unrivalled choice and ensure that the most suitable model can be easily selected to suit every application.

	VZ-8light ⁴	VZ-8light ⁴ + FP	VZ-8plus ⁴
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	✗	✗	✓



Redesigned Infrared remote for the VZ-8plus⁴ and VZ-8light⁴ with 'Feature Pack'.



*Feature Pack available Spring 2013

Advanced Connectivity

USB Device Port / Connectivity Software

The VZ-8light⁴ and VZ-8plus⁴ can be connected to a computer using the USB 2.0 or the LAN port together with the WolfVision Connectivity Software or a WIA, Twain or video capture driver. The supplied Connectivity 2 Software

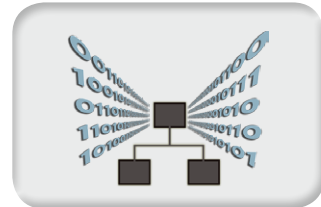
allows for saving still images and videos onto a PC or Mac, controlling the unit, updating the firmware, adding annotations, instant printing of screenshots and even streaming live images over a network.



LAN Port / Additional Network Features (VZ-8plus⁴)

The LAN port makes the Visualizer a part of the internal computer network and it can be used for communication over the Internet, if it is assigned an official (WAN) IP address. Administrators can use the LAN port to control,

support and update all of their units from their local desktop PC. The VZ-8plus⁴ offers unicast and multicast streaming of live images directly from the Visualizer (without a connected PC) in popular streaming modes like H.264.



External Controlling

A wide range of connectivity options ensures that effective external controlling is possible. USB, LAN and infrared connections can be used to control the VZ-8 Series Visualizers from external devices, such as a room control system, a videoconferenci-

ng system or a computer. When connected to a WLAN router, the VZ-8light⁴ and VZ-8plus⁴ can also be controlled using WolfVision's smartphone apps for iPod/iPhone/iPad and Android. The big advantage of this is the Live Image Preview display function.



Internal and External Image Memory / USB Host Port

Nine images can be stored in the internal memory of the VZ-8plus⁴ and recalled instantly by pressing one of the numerical keys on the infrared remote control. The USB host port can be used for connecting USB sticks and other

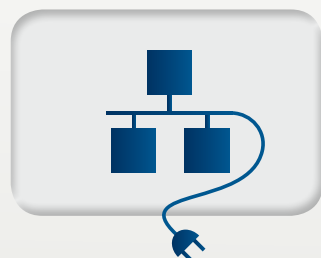
"passive" USB devices. USB sticks can be used as an extension of the image memory and for uploading and downloading images. These memory features are also available on the VZ-8light⁴ with 'Feature Pack'.



Power Over Ethernet Plus (PoE+)

The Ethernet / LAN port of the VZ-8 Series Visualizers includes Power over Ethernet Plus (PoE+) functionality. They are compatible with devices meeting the IEEE

802.3at industry standard. Power over Ethernet is a popular way of saving on cables and installation costs.



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 "Feature 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 "Feature 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	
Connectivity 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)	
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 "Feature Pack")	3
User defined Visualizer settings on USB Stick	optional (with "Feature 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 ("Feature 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 "Feature 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 "Feature 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
Advanced controlling with professional protocol via LAN & USB	yes, via LAN and USB	
Weight	5 kg (11 lbs)	
Infrared remote control (including laserpointer)	optional infrared (with "Feature 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)	
Dust cover	included, carrying case optional	
Warranty	5 years	

All units made in the European Union (Austria)

Feature Pack available Spring 2013

Design and specifications subject to change!

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