

VZ-9plus³ Desktop Visualizer

Top of the line
performance



Unique Design & Usability

VZ-9plus³ Desktop Visualizer



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.

The Visualizer VZ-9plus³ is the top of the line model amongst WolfVision’s portable desktop Visualizers. It surpasses WolfVision’s popular VZ-8 Visualizer series as well as any other Visualizer on the market in every way.

Additional useful and unique features such as the synchronized lasermarkers and LCD monitor for easier positioning of objects underline its leading position in the Visualizer market. Now in its third generation, the award-winning VZ-9plus³ comes with a completely redesigned housing - new, modern and elegant.



More detailed feature descriptions,
photos and 3D animation at

www.wolfvision.com

Long Lifetime

Our customers appreciate the exceptional mechanical quality and solid design of WolfVision Visualizers. They are built to last for a very long time.



Outstanding Picture Quality

WolfVision Visualizers have always been famous 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 whole picture (including the edges). It means lifelike colors, a high frame rate, fast and precise auto focus, smooth zooming, an overall distortion free picture, even lighting without reflections or hot spots and much more.

WolfVision's high priority on perfect picture quality can be seen throughout the entire Visualizer product line - from entry level models right through to the top of the range units. The picture quality of a Visualizer or camera can only be as good as it's weakest component. 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 16x 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 4x digital zoom.

High End Camera

A high definition 1-CCD camera with native image formats of SXGA-, WXGA and 720p HD, gives 820 lines of visible resolution in every part of the picture, including the edges as WolfVision only uses high end camera lenses in its Visualizers.

No Light Adjustments Necessary

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

Synchronized Lasermarkers & Preview Monitor

The unique combination of the "Synchronized Lasermarkers" and the built-in preview monitor makes it easier than ever before to position an object on the working surface.

Turntable

The VZ-9plus³ makes recording outside of the working surface very comfortable as it is mounted on a turntable. In this way a Visualizer can be used just like a camera on a tripod.

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, iris etc) is adjusted automatically.

290° Tilt Range of Camera

WolfVision's VZ-9 series Visualizers offer the possibility to record almost anywhere in front of or behind the unit.

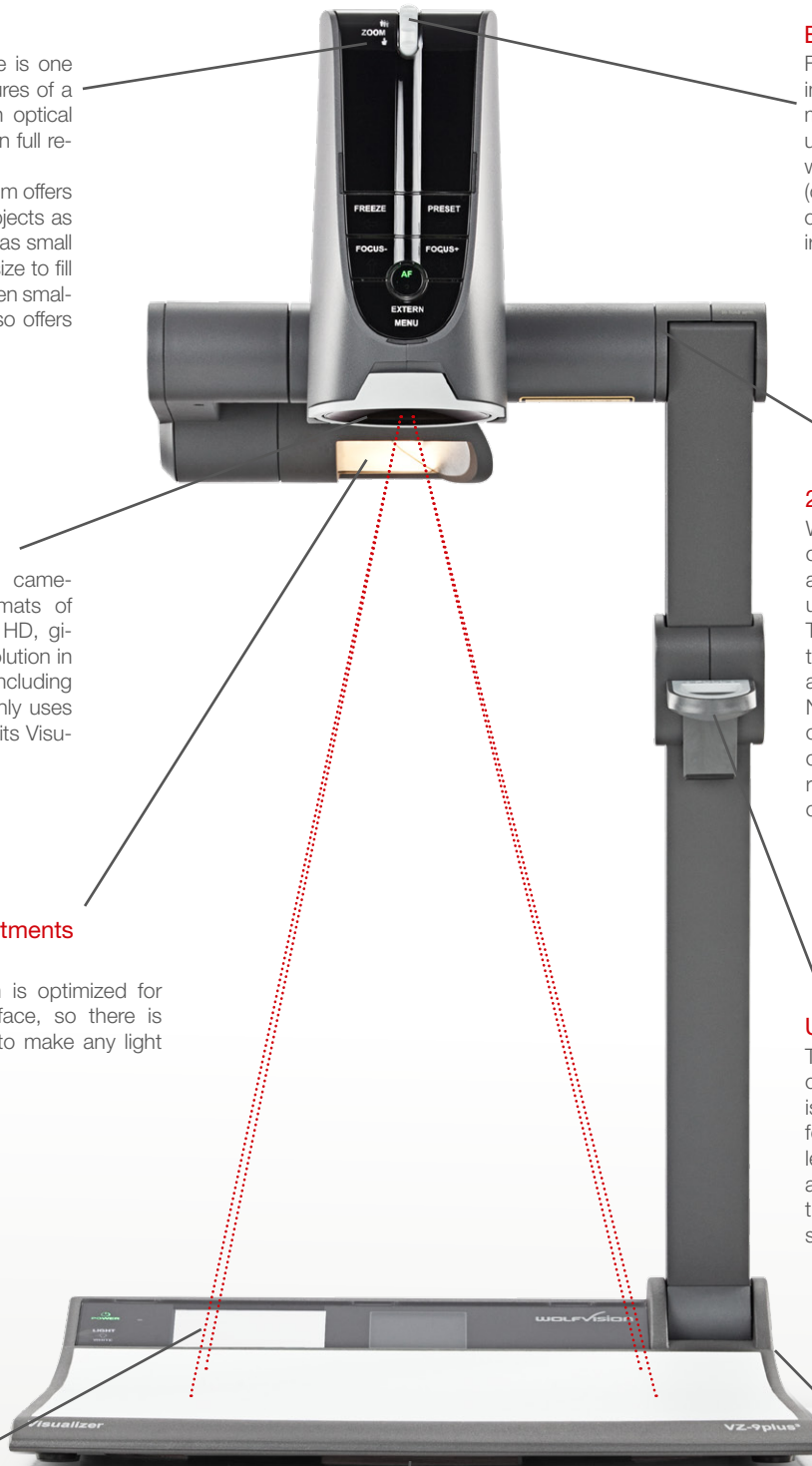
The camera and light can be tilted 180° towards the audience and 110° towards the speaker. Not many Visualizers can record outside of the working surface because tilting the camera and light requires high-grade mechanical components.

Unique Folding System

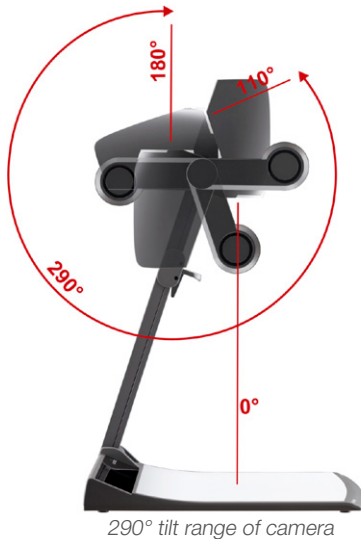
The most sophisticated mechanical part of the Visualizer VZ-9plus³ is the intelligent arm with its 1-step folding system. With just one simple pull, the arm comes up, camera and light automatically move into the working position and the unit switches on.

Anti-Theft Devices

The Visualizer has two 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. Additionally, T-Lock (Kensington® Lock) devices can also be used.



Feature Highlights



Synchronized Lasermarkers

Small dots of laser light, projected from the camera head onto the working surface, mark the edges of the pickup area of the camera. This allows for easy positioning of objects on the working surface.

The "lasermarkers" are synchronized with the camera and change accordingly when zooming in and out.

While the "Synchronized Lasermarkers" can clearly be seen on the working surface, they remain invisible in the picture picked up by the camera. The edges of images in 4:3 and 16:10 aspect ratios are marked on the working surface.



Professional PowerPoint Integration

A Visualizer can greatly improve an otherwise stiff PowerPoint presentation by adding the "live factor". It's also the perfect solution to show an unexpected item during a PowerPoint presentation. Simply connect the computer to the external input of the

Visualizer and switch between PowerPoint and Visualizer images using the fade-over effects of the integrated Seamless Switch. This makes the live image of the Visualizer appear to be an integrated part of the PowerPoint presentation.



Outstanding Mechanical Stability and Long Lifetime

Outstanding mechanical quality and durability are basic requirements for all WolfVision products. WolfVision units are solid and not easily damaged. They are built to last for a very long time. If you want to check out the difference

in mechanical stability and reliability between a WolfVision Visualizer and any other document camera on the market, just "touch" the units. You will immediately "feel" the difference.

Advanced Connectivity

USB Device Port/Connectivity Software

The VZ-9plus³ can be connected to a computer using the USB 2.0 or the LAN port. Communication is possible via the WolfVision Connectivity Software or a dedicated WIA, Twain or video capture driver. The supplied Connectivity Software allows for saving still images and videos onto a PC or

Mac, controlling the unit, updating the firmware, adding annotations, instant printing of Visualizer screenshots and even streaming live images over a network. Firmware updates allow new features and technical improvements to be added at no cost!



External Controlling

A wide range of connectivity options ensures that effective external controlling is possible. Serial RS232, USB, LAN and infrared connections can be used to con-

trol the Visualizers from external devices, such as a room control system, a videoconferencing system or a computer.



Internal and External Image Memory/USB Host Port

Nine images can be stored in the internal memory of the unit 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.



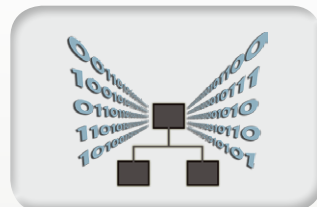
LAN Port / Additional Network Features

The LAN port is a key feature of all high end Visualizers from WolfVision. It 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 of a larger number of Visualizers can use the LAN port to control, support and update all of their units from their

local desktop PC. It can be used for controlling, capturing still images, viewing live video streams, firmware updates, adjustments, menu settings and maintenance purposes.

The VZ-9plus³ offers streaming of live images directly from the Visualizer (without a connected PC) in Singlecast (Unicast) and Multicast mode.



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Technical Data

	VZ-9plus ³
Camera	1-CCD 1/3" Progressive Scan
Pictures per second (as picked up by the camera)	30 frames (in all resolutions)
Effective Pixel (=pixels actually used for image information)	1280 x 960 (=1,228,800)
Total pixels of CCD(s)	1,320,000
Pixels processed per second (=effective pixels x frames per second)	36,864,000
Color reproduction / precision	very good colors (sRGB color precision)
Native signal output	SXGA- (1280x960) and WXGA (1280x800) and 720p HD (1280x720)
Converted output signals (4:3 and 5:4)	UXGA (1600x1200), SXGA+ (1400x1050), SXGA (1280x1024), XGA (1024x768), SVGA (800x600)
Converted Widescreen output signals (16:9 and 16:10)	WUXGA (1920x1200), 1080p HD (1920x1080), WSXGA+ (1680x1050), WXGA+ (1440x900), WXGA (1360x768)
Resolution (measured)	820 lines
Resolution in Image Turn mode	1050 lines
Image Rotation	90, 180 and 270 degrees
Iris and White Balance	automatic and manual
Autofocus / Speed	yes (continuously working, high speed)
Manual focus	yes
Shutter	auto, manual, flickerless
Easy positioning of objects with "Synchronized Lasermarkers"	yes (with marks for 4:3 and 16:10 aspect ratio)
Built-in LCD preview monitor	yes (70x45mm / 2.7"x1.8")
Live to Freeze comparison (on two monitors or screens with just one Visualizer)	yes (RGB and DVI output can output different signals. One can output a live image and the other one a "freeze" image)
On screen menu with on screen help	yes
Firmware Updates via	USB, RS232, LAN, USB stick
Zoom / Lens	64 x zoom (16x optical + 4x digital), zoom wheel with multiple speed
Max object height on working surface	230mm (9.6") in tele position 370mm (15") in wide position
Max. pick-up area on working surface	length: 300mm (11.81"), width: 400 mm (15.75")
Max. pick-up area on working surface in Image Turn mode	length: 400mm (15.75"), width: 300 mm (11.81")
Min. pick-up area on working surface (in full resolution, with optical zoom)	25 x 19 mm (0.98" x 0.75")
Min. pick-up area on working surface (with digital zoom)	6 x 4.5 mm (0.23" x 0.16")
Max. pick-up area outside of working surface	unlimited
Depth of focus on small object (42 x 33 mm)	10mm (0.4")
Depth of focus on large object (360 x 270 mm)	260mm (10.2")
Tilt range of camera	290° (110° to speaker + 180° to audience)
Blinding of audience or speaker	none
Light source	long life halogen spot light with aligned facet mirror, vertical rotation 270 degrees, lamp lifetime 5000 hours 50W, 12V
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)
Turntable mounted (for horizontal pan shots outside of the working surface)	yes
Intelligent folding system	articulated arm, 1-step set up
User programmable presets	3 (plus 8 fixed presets through RS232)
Special working surface for transparencies	yes
Additional self-adhesive dry-erase working surface	1
Slide pick-up	through integrated slide lightfield
External computer input / Input switch	yes (15-pin D-Sub/VGA plug)
Built-in digital scaler for the computer input	yes (processes the signal from computer input for RGB- and DVI-output)
Seamless switch with fading effects	yes
Image memory	9 pictures in internal memory + unlimited number on USB stick
9 image split-screen ("View function")	yes
Alternative Image display	Text enhancer / negative image / negative-blue image / black and white image
RGB output	one (15-pin D-Sub/VGA-plug)
DVI output	DVI-I (digital and analog)
HDMI output	when using a DVI-HDMI cable
USB standard / port	USB 2.0 Device Port and two USB Host Ports
Ethernet/LAN port, IP-addressable	yes, 10/100 Mbps
Additional network features: multicast and singlecast streaming, authentication	yes
RS232 port	9-pin D-Sub
Advanced controlling with professional protocol via RS232, LAN and USB	yes
Weight	6,5 kg (14,3 lbs)
Infrared remote control	yes (with laserpointer)
Anti-theft device	T-Lock (Kensington® Lock) and table lock bolt
Power (external power pack)	multi range 100-240 V, 80W weight: 0.3kg (0.6lbs)
Carrying case / dust cover	carrying case and dust cover included
Warranty	5 years

All units made in the European Union (Austria)

Design and specifications subject to change!

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