

## VZ-P Visualizer Systems



# Driving the Creation of Knowledge

VZ-P18 and VZ-P38 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.

WolfVision's P Series Visualizer systems feature a unique light system which delivers phenomenal image quality, especially when working with 3-dimensional objects. It allows for shadow-free illumination, illumination of hollow objects and outstanding depth of focus. Featuring a touch screen remote control with live image preview and WolfVision's unique synchronized lightfield for easy positioning of objects, the VZ-P18 and VZ-P38 Visualizer systems deliver both unrivaled imaging performance and exceptional usability.



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.





## 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 Visualizer systems 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.

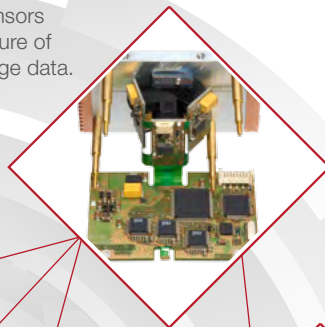
## High End Optics

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.



++ Video ++

# Key Features

## LCD Preview Monitor

The LCD monitor is located on the top mirror of the VZ-P18 and VZ-P38. This monitor is designed as a preview monitor for live image display.

## 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 P Series Visualizers also offer 4x digital zoom.

## Motorized Arm and Top Mirror (for scrolling)

Simply pressing the power key raises the arm automatically, opens the LCD monitor on the top mirror head, and the lightfield appears on the working surface.

The top mirror is also motorized. This allows for scrolling through text in a document by just pressing the up/down keys on the remote control.

## Innovative Lighting System

The P Series camera and light projector system provide a number of unique advantages to the user - shadow-free illumination, illumination of hollow objects and a synchronized lightfield for easy positioning of display materials.



## Anti-Theft Devices

The Visualizer has an anti-theft device on the bottom of the arm. T-Lock (Kensington® Lock) devices can also be used. The touch screen remote control of the unit can be firmly attached to the charging unit using a screw.

## High Resolution -1-CCD / 3-CCD Cameras

The main difference between the two P Series models is the built-in camera. The VZ-P18 features a 1-CCD SXGA-/WXGA/720p HD camera which delivers superb image quality. It is only surpassed by the 3-CCD camera of the VZ-P38. This 3-CCD camera produces even more lifelike colors and higher resolutions when working with very detailed colored objects.



+ 3D Model +

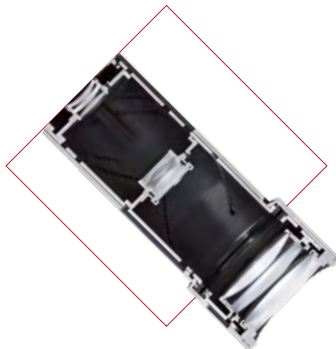
# Maximum Usability



## Touch Screen Remote Control with Live Image Preview

The VZ-P18 and VZ-P38 feature a touch screen remote control and a live image preview. A second touch screen LCD monitor can be found on the top mirror of the VZ-P18 and VZ-P38. This can also be used for live image preview and for controlling the unit. A digital laser pointer, clearly visible on any type of screen, is also provided.

For users who prefer a simple push-button remote control, both systems also include a legacy infrared remote control with only the most important buttons.



## High Depth of Focus

P Series Visualizers are equipped with professional telezoom lenses with a very high depth of focus. This is especially important when working with larger 3-dimensional objects. Even at high magnification, images are always sharp

from top to bottom. The P Series models are also equipped with a One-Push-Autofocus. However, due to the exceptional depth of focus it is rarely necessary to adjust the focus.



## USB Device Port / vSolution Link Software

P Series Visualizers can be connected to a computer using the USB 2.0 or the LAN port together with the WolfVision vSolution Link Software or a WIA, Twain or video capture driver. The supplied 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!

# Synchronized Lightfield

## ...developed by WolfVision!

A light projector inside the unit uses two mirrors to project 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.



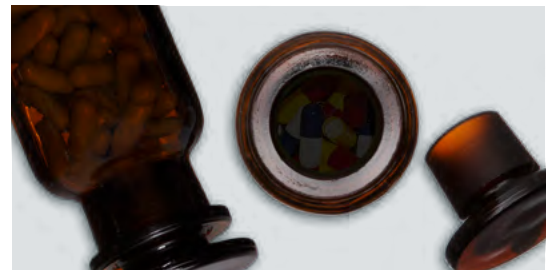
## Illumination of Hollow Objects / No Light Adjustments

Due to the special light system of the P Series Visualizers, every part of the recorded picture is always perfectly illuminated. Hollow objects or complex 3-dimen-

sional 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

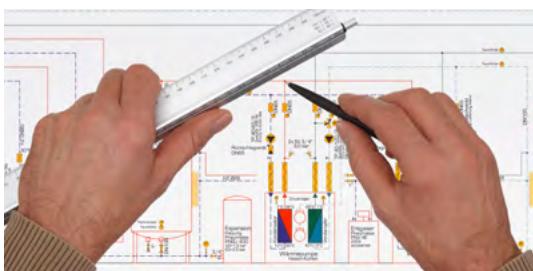


Not illuminated on the inside

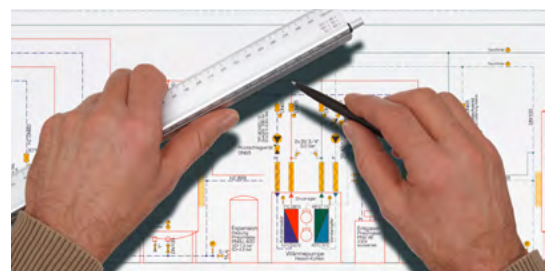
## Shadow-free Illumination

As the camera and the light projector are situated side by side within the Visualizer and follow the same path, shadows are almost completely eliminated. During a presentation, it is often necessary to write on a document

on the working surface or to point to a certain detail with a finger or a pencil. P Series Visualizers are perfectly suited for this, as there are practically no shadows created, that might otherwise cover up important details.



Shadow-free



With shadows

# Technical Data

	VZ-P18	VZ-P38
Camera	1-CCD 1/3" Progressive Scan	3-CCD 1/3" Progressive Scan
Pictures per second	30 Frames (in all resolutions)	
Effective Pixel (=pixels actually used for image information)	1280 x 960 (=1.228.800)	3 x 1280 x 960 (=3.686.400)
Total pixels of CCD(s)	1.320.000	3.960.000
Pixels processed per second (=effective pixels x frames per second)	36.864.000	110.592.000
Color reproduction / precision	very good colors (sRGB color precision)	100% lifelike colors (sRGB color precision)
Native signal output	SXGA- (1280x960), 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	1200 lines
Resolution in Image Turn mode	1050 lines	1550 lines
Image Rotation	90, 180 and 270 degrees	
Iris & white balance adjustment	automatic and manual	
Autofocus / Speed	one-push-autofocus (focusing is rarely necessary due to high depth of focus)	
Manual focus	yes	
Shutter	auto, manual, flickerless	
Easy positioning of objects with "Synchronized Lightfield"	yes (with 4:3 / 16:10 switching)	
Built-in LCD preview monitor	2 pcs.: on camera head and remote control, size: 96 x 49mm / 3.8" x 1.9"	
Live to Freeze comparison (on two monitors or screens with just one Visualizer)	yes (RGB, DVI and Preview outputs can output different signals. One can output a live image and another one a "freeze" image)	
Live to Freeze comparison (Picture in Picture)	yes (still image is a small picture, integrated into the large live image)	
PowerPoint integration (with connected PC)	Cross-fading between Visualizer and PowerPoint Images and Picture in Picture	
PowerPoint substitution (without connected PC)	PowerPoint images exported as JPG can be displayed without PC, including cross-fading	
On screen menu and on screen help	yes	
Firmware Updates via	USB, RS232, LAN, USB stick	
Zoom / Lens	two telezoom lenses, 64x zoom (16x optical + 4x digital), zoom wheel with multiple speed	
Max. object height on working surface	300mm (11.8") in tele and wide position	
Max. pick-up area on working surface	length: 300mm (11.8"), width: 400mm (15.7")	
Max. pick-up area on working surface in Image Turn mode	length: 400mm (15.7"), width: 300mm (11.8")	
Min. pick-up area on working surface (in full resolution, with optical zoom)	25 x 18.5 mm (1.0" x 0.7")	
Min. pick-up area on working surface (with digital zoom)	6.3 x 4.6mm (0.25" x 0.18")	
Max. pick-up area outside of working surface	unlimited	
Depth of focus on small object (42 x 33 mm)	70mm (2.75")	
Depth of focus on large object (360 x 270 mm)	260mm (10.2")	
Tilt range of camera	105° (30° to speaker + 75° to audience)	
Shadow free illumination	yes	
Illumination of hollow objects	yes	
Blinding of audience or speaker	none	
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)	
Reflection free area on working surface (suitable for transparencies)	whole working surface	
Recordings outside of the working surface	yes (to the back of the unit)	
Intelligent folding system	motorized arm	
Motorized arm	yes	
Motorized top mirror (for scrolling text with remote control)	yes	
User programmable presets	3 user presets + 1 power-on preset + fixed presets through command list	
Bottom light	optional external lightboxes (extremely large models like WolfVision's LB-38 can be used)	
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	
Advanced keystone correction	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	2x 15-pin D-Sub/VGA-plug	
DVI output	DVI-I (digital and analog)	
HDMI output	when using a DVI-HDMI cable	
USB standard / port	Two USB 2.0 device ports and two USB 2.0 host ports	
Ethernet/LAN port, IP-addressable	yes, 10/100 Mbps	
Additional LAN-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	16 kg (34 lbs)	
Remote control	Touch screen radio remote control (range: min. 10m / 33 ft) with integrated preview monitor, battery charger on the Visualizer, firmware upgradable, additional infrared remote control	
Anti-theft devices	T-Lock (Kensington® Lock), table lock bolt and screw on remote control	
Power	Internal power supply, multi range 100-240 V, 80W, power consumption: 49W	
Warranty	5 years	

All units made in the European Union (Austria)

Design and specifications subject to change!

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