EN **WOLFVISION** ®

VZ-P18 and VZ-P38

Perfection in presentation

Unrivaled Performance

VZ-P18 and VZ-P38 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 P Series Visualizers are regarded as the ultimate high end units on the market. The unique light system of the P Series models greatly improves the overall picture quality, especially when working with 3-dimensional objects. It allows for shadow free illumination, illumination of hollow objects and exceptional 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 Visualizers deliver both unrivaled imaging performance and exceptional usability.

More detailed feature descriptions, photos and 3D animation at

www.wolfvision.com

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.
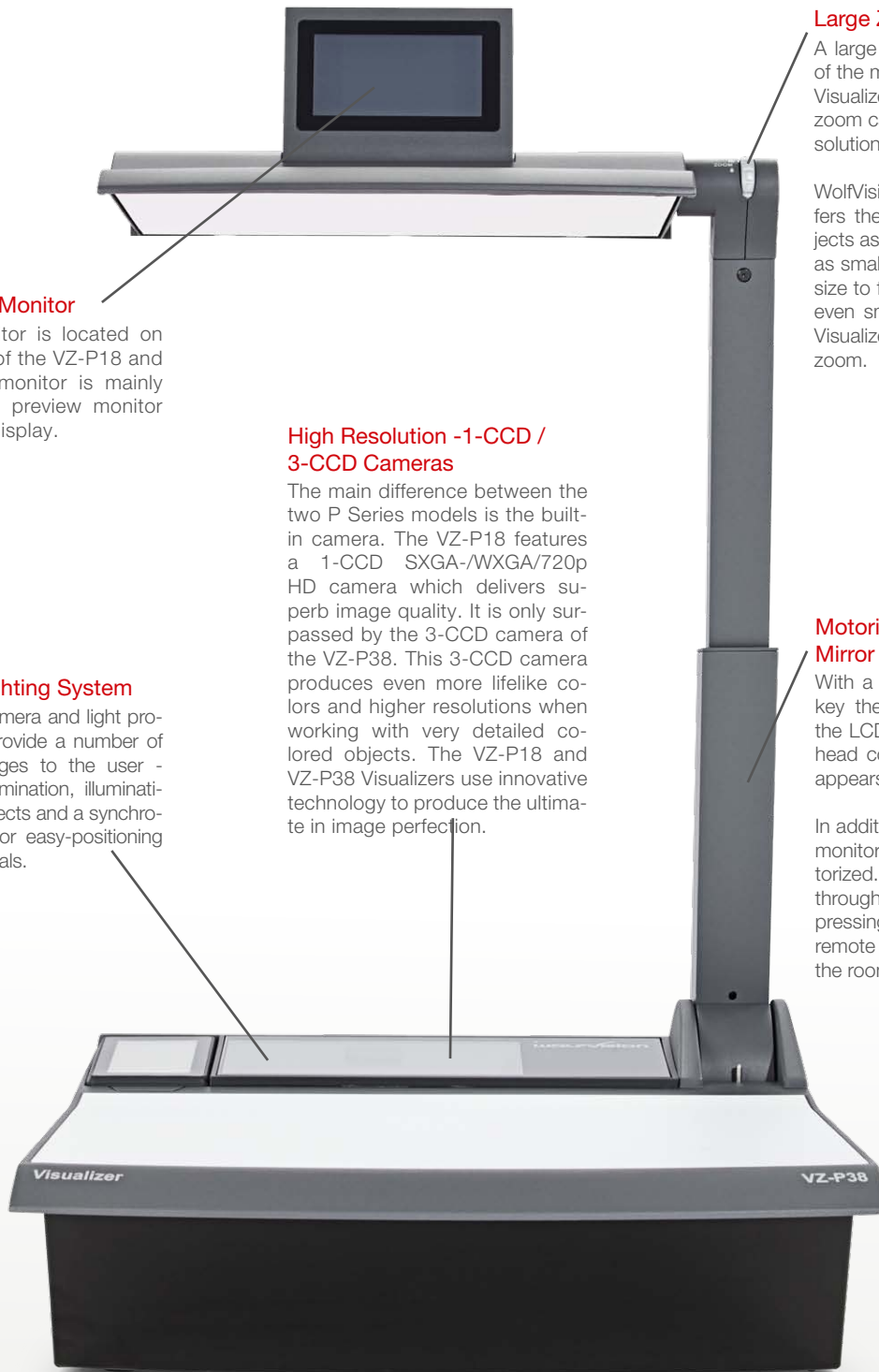
Outstanding Picture Quality

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:

Image Sensor (CCD)

A high resolution 1-CCD/3-CCD image sensor ensures the capture of high quality image data.

Electronic Hardware

High end components deliver high performance, stability and reliability.

Camera Lens

A large high precision premium quality lens creates a better image than a small low price lens.

Software (Firmware)

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

Light System

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

Innovative Technology

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.

LCD Preview Monitor

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

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. The VZ-P18 and VZ-P38 Visualizers use innovative technology to produce the ultimate in image perfection.

Motorized Arm and Top Mirror (for scrolling)

With a simple press of the power key the arm raises automatically, the LCD monitor on the top mirror head comes out and the lightfield appears on the working surface.

In addition to the arm and the LCD monitor, 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 from anywhere in the room.

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 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.

Visualizer

VZ-P38

Presentation Benefits

Touch Screen Remote Control with Live Image preview

The VZ-P18 and VZ-P38 are the first Visualizers on the market with a touch screen remote control and a live image preview feature. A second touch screen LCD monitor can be found on the top mirror of the VZ-P18 and VZ-P38. It can also be used for live image preview and for controlling the unit. A digital laser pointer, by means of a motion sensor is clearly visible on any type of screen.

For users who prefer a simple push-button remote control over the touch screen remote control, the VZ-P18 and VZ-P38 also include a legacy infrared remote control with only the most important buttons.

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. The "Live to Freeze" comparison feature is also perfectly suited for PowerPoint integration. By using the Preset key the PowerPoint image is frozen and minimized as a little image in the lower left corner of the picture, while the live image of the Visualizer is displayed in the main part of the picture.

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 great depth of focus it is rarely necessary to adjust the focus.

Naturally Green
www.wolfvision.com/green

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 image is recorded by the camera using the same light path.

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. There is no need to look at a monitor.

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-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
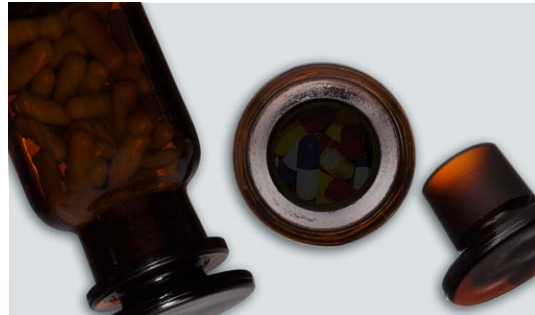

Not illuminated on the inside

Shadow Free 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.
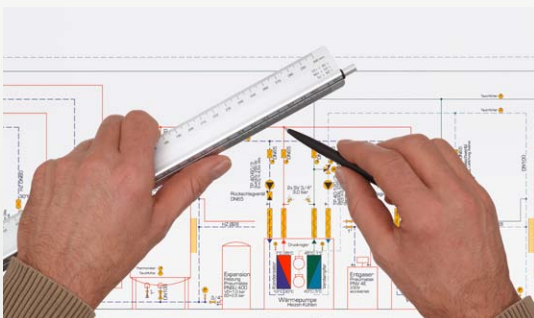
Shadow-free
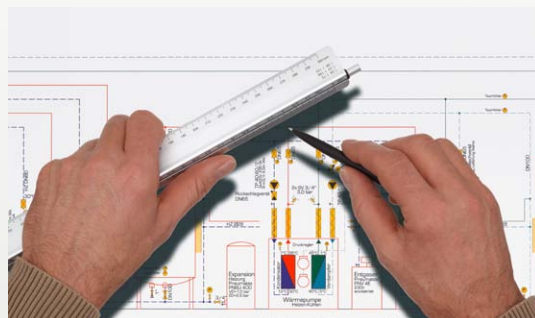
With shadows

Flexible Installation

The main body of the P Series is designed so that it can be easily recessed into a table if desired, which creates a very flat working surface for the user.

Advanced Connectivity

USB Device Port/Connectivity Software

The Visualizer 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 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 control 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

9 images can be stored and then recalled by simply pressing one of the numerical keys on the 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-P18 and VZ-P38 offer streaming of live images directly from the Visualizer (without a connected PC) in Singlecast (Unicast) and Multicast mode.
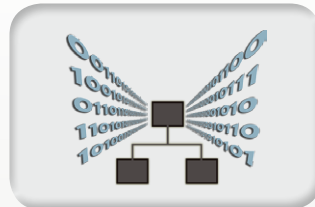
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Technical Data

	VZ-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)	
Power Point integration (with connected PC)	Cross-fading between Visualizer and PowerPoint Images and Picture in Picture	
Power Point substitution (withourt 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.	
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 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	
Special working surface for transparencies	yes	
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 (with laserpointer)	
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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