

PORTRAITING
SCAPINGS

VZ-8light
VZ-8plus
Progressive Scan

WOLFVISION[®]
Visualizer



Unique folding system / Set up in seconds



WolfVision's portable Visualizers can be set up in seconds. A gentle tug lifts the arm and light into working position, then turn the camera head to the desired viewing angle.

Just as easily, it folds back into its compact size with just one pull on the center ring, to be neatly stored during or after a presentation.

Easy to use - Only 5 buttons on the unit



It is very important for a smooth presentation that a Visualizer is extremely easy to use. A speaker does not want to deal with a lot of confusing and unnecessary functions during his presentation.

That is why there are **only 5 buttons** on the unit itself. **Anyone can work with it without instructions.**

Easy to carry



case without projector

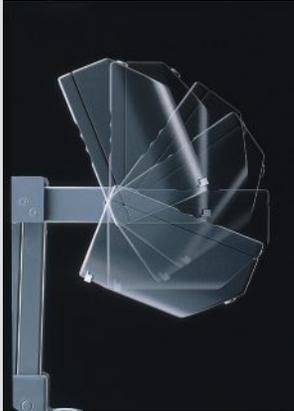
The Visualizer alone weighs only 4.5kg (10lbs). Together with its carrying case and power pack it is still only 7.3kg (16lbs).

WolfVision's portable Visualizers come in a high quality carrying case, with pockets for all the needed accessories. The soft case has an expandable side pocket for a small LCD-projector or notebook.



case with projector

Special light system



The camera head can be rotated 130 degrees.

No blinding the audience or the speaker

The light of WolfVision's portable Visualizers is focused directly onto the working surface. Due to the special lamp housing, neither the audience nor the speaker will be blinded in a darkened room.

Minimum stray light

WolfVision Visualizers are perfect for large screen projection with a data projector. There is almost no disturbing stray light from the unit to the projection screen.

Light swing (illumination in front of the unit)

The light of the portable Visualizers can be turned around horizontally at an angle of up to 250 degrees. Thus, objects in front of the unit can be illuminated as good as items on the working surface.

Recordings in front of the unit

When objects are too big to be placed on the working surface or need to be shown from the side (like glasses of liquids etc.), the camera head and the light of the portable Visualizers can be turned to accommodate them.

In this way a Visualizer can be used like a video camera on a tripod, for recording people, large graphics, pictures or charts in a room.



Close-up lens drawer

For capturing objects in a larger distance to the unit, the close-up lens can be removed with just one pull. It can not get lost, because it remains attached to the unit.

Continuous Autofocus

The continuously working autofocus recognizes all objects very quickly and precisely. As a result, a presenter never needs to worry about focusing. For special objects a manual focus is also available.



State of the Art Picture Quality



"The VZ-8plus, has a lot of great and unique features, but the outstanding picture quality puts everything into the shade." - a statement we heard very often since the VZ-8plus was released.

Now the VZ-8light - a "light version" of the VZ-8plus - is also available. It has the same outstanding picture quality, but reduced features. (All features available only on VZ-8plus, but not on VZ-8light, are marked with * in this brochure.)

The key elements of the exceptional picture quality are:

- **WolfVision's Progressive Scan lens** (A special joint venture development between WolfVision and a leading lens manufacturer. The first lens especially designed for a Progressive Scan camera with a real optical 12 times zoom! The image is extremely sharp, even in the corners of the picture. The continuous autofocus works very well!)
- **WolfVision's Progressive Scan camera** (Resolution, color reproduction and digital zoom are outstanding.)
- **WolfVision's Intelligent Electronics** (Allowing for firmware upgrades, which is a great feature to keep your unit up to date with the latest developments)

"Progressive Scan" with High Resolution

SVGA XGA DIGITAL 75Hz / 60Hz
SXGA DVI

Until recently all Visualizers were equipped with PAL or NTSC video cameras.

Modern **data projectors** provide the ability to display higher resolution images using its "data" input instead of its "video" input. This is where "Progressive scan" cameras come in. They output a "data" signal with more resolution than PAL/NTSC "video" could provide.

Especially the **vertical resolution** is no longer limited to 400 lines from top to bottom (PAL standard) or 350 lines (NTSC standard).

VZ-8plus and VZ-8light output a native XGA signal on **RGBHV** (D-Sub) outputs.

The VZ-8plus can also switch the output mode to **SXGA** or **SVGA** mode (at 75 or 60Hz) and offers a digital **DVI** output. Plus it can also output the original Progressive Scan signal converted into **PAL** or **NTSC** video (switchable).

Live-Image (20 pictures per second)



20 pictures per second (like WolfVision's VZ-8plus/VZ8-light):
The motion can easily be followed

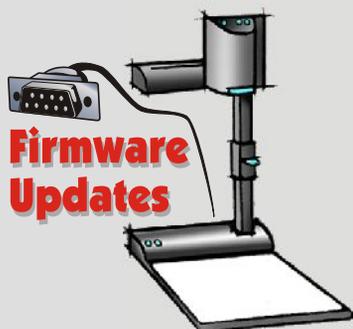


7.5 or 15 pictures per second (like other manufacturer's units):
Pictures are output a couple of times. Motion is hard to follow.

"**Motion**" used to be the weakness of Progressive Scan cameras. Until recently they could only pick up 15, 7.5 or less pictures per second. A low number of pictures per second often resulted in a disturbing strobe effect on the screen, whenever something was moved in the picture or when adjusting zoom or iris.

It is very important for a professional presentation that **motion** can be shown in good quality and without any image disturbance. WolfVision uses newly developed Progressive Scan CCDs which can pick up **20 pictures per second** for the VZ-8plus/VZ-8light. As a result, motion looks almost as good as with PAL/NTSC video cameras. But the resolution is much higher!

Firmware updates via Internet



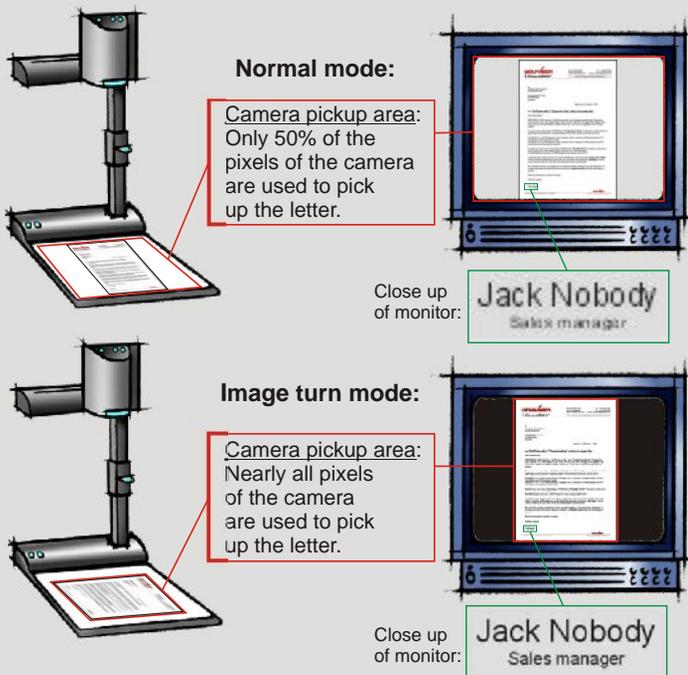
WolfVision's Visualizers are the only units on the market that offer an upgradeable firmware.

This allows for **new features and technical improvements to be added at no cost!**

Downloading firmware updates from the internet and up-loading them onto the Visualizer through the serial RS232 input is very easy.

WolfVision's engineers are constantly working on new improvements and features to **keep your units up to date with the technology of tomorrow!**

"Image turn" mode for higher resolution *



Picking up a complete vertical (portrait) letter or A4 page has always been a critical issue for a Visualizer, because the image is always picked up in a horizontal (landscape) format. As a result, only 50% of the camera pixels could be used to pick up the vertical (portrait) document.

WolfVision's unique "Image Turn" mode solves this problem. The user places the document on the working surface horizontally and zooms in on it completely. In doing so, approximately 90% of the camera's effective pixels are used to pick up the document. WolfVision's state of the art electronics turn the image at an angle of 90 degrees and output it in a vertical format with **40% higher resolution**. The margins left and right are blacked out.

In this mode the resolution of a **complete** vertical (portrait) document is much better. Even **8-point** characters are readable now.

Another advantage of the image turn mode is that very long vertical pages (like **US legal format**) can be picked up completely.

9 Picture memory *



With the VZ-8plus a user has the opportunity to store **9 images** and recall them by just pressing one of the numerical keys on the infrared remote control.

By pressing the "All" key, a split image with all 9 pictures of the memory can be displayed, enabling easy selection.

The 9 pictures in the memory can also be downloaded to a PC via **USB**.

The VZ-8plus is equipped with a **battery backup**, so pictures remain in the memory for 1-4 weeks even when the power is disconnected.

The VZ-8light offers a 1 image freeze function, instead of the 9 picture memory.

Text Enhancer* / Negative / Negative-blue



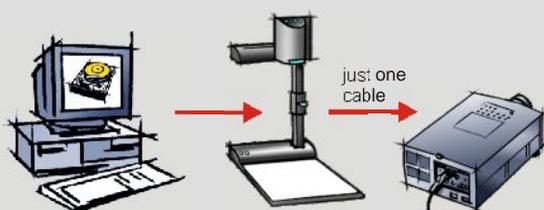
The VZ-8plus offers many possibilities to improve the readability of text.

By pressing the "Text Enhancer" button, the outstanding contrast of the picture is improved even more. The colors are just a little bit darker than before.

Sometimes dark text on a bright background may be easier to read if the Visualizer is switched to "negative" or "negative/blue".

For special applications (like analysing x-rays) the image can also be switched to **black and white**.

Computer input (loop-through)



A computer can be connected to the **RGBHV input** (15-pin D-Sub-plug) of the Visualizer. With the **Ext/Int switch** a user can switch between the Visualizer image and computer image to be output by the Visualizer's RGBHV output (15-pin D-Sub-plug).

Thus, only one XGA-cable to the display unit (projector, monitor, video conferencing system etc.) is required and no separate remote control has to be used for switching between the two image sources.

USB output / 3-D scanning in less than 2 seconds



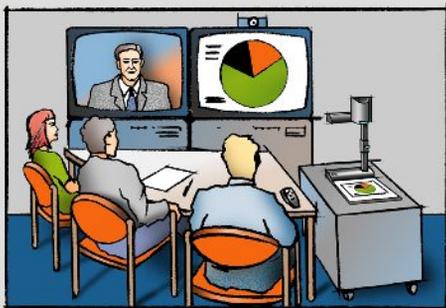
The **USB** output of the VZ-8plus and VZ-8light can be used to transfer still pictures from a Visualizer to a computer and save them in JPG, TIF or BMP format. In this way the Visualizers can be used as a **3-D scanner for a computer**. No additional hardware is required for this.

It only takes **2 seconds** until images are loaded onto the computer. This is much faster than with any desktop scanner. In addition, the Visualizer can also be controlled through the USB software.

The software works under Windows 98, ME, 2000 and XP and is fully **Twain compatible**. This is important for using the Visualizer in connection with popular graphic programs like Photoshop or for connecting them to Smart Boards.

The USB-connection is perfect for transferring **still pictures**. **Live images** can also be transferred onto a computer very easily using a standard PAL/NTSC video digitalisation card (grabber card).

Optimized for video conferencing



WolfVision's camera electronics produce a very **strong and stable picture**, which is very important when a Visualizer is used as a document camera for videoconferencing systems. The **even lighting, smooth auto iris and perfect focus** are very important features, enabling video conferencing systems to digitize and transfer the picture from a WolfVision Visualizer **much faster** than pictures from other document cameras. Furthermore there is no blinding **stray light** from a WolfVision Visualizer, which could disturb the auto iris of the room camera.

Of course these features are equally important for live image presentations with a data projector and for other Visualizer applications.

Special surface for transparencies

All WolfVision Visualizers have a special crystalline white working surface for perfect reproduction of transparencies. The quality of a transparency on this surface is even better than with a bottom light, because there is more contrast and the colors are not "washed out".

The whole working surface has the same even color, providing a perfect background for transparencies and other objects.

For x-rays or oversized slides external lightboxes are available.



24x zoom (12x optical and 2x digital)



A large **optical** zoom range is one of the most important features of a Visualizer. It is absolutely necessary that **objects in every size** can be picked up in **full resolution**.

WolfVision's **optical 12 times zoom** offers the possibility to pick up objects **as large as an open book** (370 x 276mm / 14.6" x 10.9") and **as small as a stamp** (33 x 25mm / 1.3" x 1") in full size to fill the screen.

For enlarging even smaller objects down to 17 x 13mm (0.7" x 0.5") the Visualizers also offer a **2x digital zoom**. This allows for enlarging objects like a **very small coin**.

In theory 2 times digital zoom would mean double the size and half the resolution, but WolfVision's new digital zoom is much better than this.

Due to the large range optical zoom, it is not necessary to have more than 2 times digital zoom.

Infrared remote control *

The VZ-8plus is supplied with a remote control. In addition to the features described on the other pages of this brochure, the remote control also offers:

- Manual focus
- Auto focus on/off
- Manual iris
- 3 user programmable Presets
- Laser Pointer
- Easy navigation for On-Screen Menu and On-Screen Help



External controlling



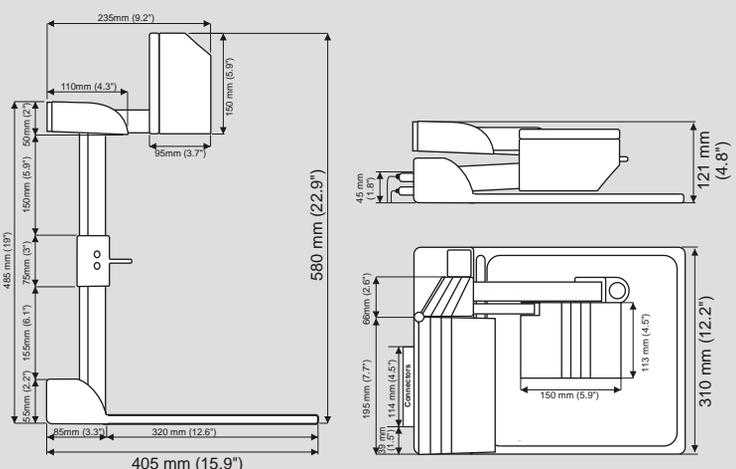
The RS-232 and USB input of the VZ-8plus and VZ-8light can be used to control the Visualizer from external devices, such as a remote control system for the whole room, a video conferencing system or a computer.

Slide drawer *

Slides can be picked up in exceptional quality without an external bottom light by just putting them into the slide drawer on the camera head of the VZ-8plus.



Dimensions:



Technical data	VZ-8plus	VZ-8light
Camera	1-CCD 1/3" Progressive Scan Camera	1-CCD 1/3" Progressive Scan Camera
Output signals	SXGA / XGA / SVGA (switchable), PAL/NTSC (switchable), USB, DVI	XGA, USB
Pictures per second (as picked up by the camera)	20 frames (=full pictures)	20 frames (=full pictures)
Horizontal resolution	640 lines (with perfect edge focus)	640 lines (with perfect edge focus)
Vertical resolution (measured with testcard somewhere in the picture)	640 lines (820 lines in Image Turn mode)	640 lines
Image Turn mode (for increased resolution when picking up complete portrait pages)	yes (for large pages up to US-legal size)	-
Effective Pixel (=pixels actually used for the image)	1024 x 768	1024 x 768
Total pixels of CCD	850,000	850,000
Color reproduction	very good colors	very good colors
Vertical image-frequency	Prog.Scan: 75 Hz or 60 Hz (switchable), PAL: 50Hz, NTSC: 60Hz	75 or 60 Hz
Horizontal image-frequency	15.7 and 37.3 - 80 kHz	60.2 or 48.3 kHz
Signal format	non-interlaced and interlaced	non-interlaced
Iris	automatic and manual	automatic (manual iris in on-screen menu)
White balance adjustment	automatic and manual	automatic and manual
Autofocus	yes	yes
Manual focus	yes	yes
Text enhancement function (in color)	yes	-
On screen menu and Menu reset function	yes (extensive, including help function)	yes
Upgradeable firmware	yes (through serial RS232 port)	yes (through serial RS232 port)
Lens / Zoom	24 x zoom (12 x optical + 2 x digital)	24 x zoom (12 x optical + 2 x digital)
Max. object height on working surface	120mm (4.7") in tele position, 370mm (15") in wide position	120mm (4.7") in tele position, 370mm (15") in wide position
Max. pick-up area on working surface	Length: 276mm (10.9"), Width: 370mm (14.6")	Length: 276mm (10.9"), Width: 370mm (14.6")
Max. pick-up area on working surface in Image Turn mode	Length: 370mm (14.6"), Width: 276mm (10.9")	-
Min. pick-up area on working surface (in full resolution, with optical zoom)	33 x 25 mm (1.3" x 1")	33 x 25 mm (1.3" x 1")
Min. pick-up area on working surface (with digital zoom)	17 x 13 mm (0.7" x 0.5")	17 x 13 mm (0.7" x 0.5")
Max. object size outside of working surface	unlimited	unlimited
Depth of focus on small object (42 x 33 mm)	10mm (0.4")	10mm (0.4")
Depth of focus on large object (360 x 270 mm)	260mm (10.2")	260mm (10.2")
Disturbing stray light	almost none	almost none
Blinding of audience or speaker	none	none
Light source	high frequency fluorescent lamp	high frequency fluorescent lamp
USB software for image capture and controlling	included (for Windows), twain compatible	included (for Windows), twain compatible
Time for still image capture through USB software	less than 2 seconds	less than 2 seconds
Reflection free area on working surface	284 x 230mm (11.1"x 9.2")	284 x 230mm (11.1"x 9.2")
Quick recordings outside of the working surface	yes	yes
Intelligent folding system	yes - pneumatic arm	yes - pneumatic arm
User programmable presets	3 (plus 8 fixed presets through RS232)	through RS232 only (3 programmable, 8 fixed)
Special working surface for transparencies	yes	yes
Slidedrawer	yes	-
Computer input / Input switch	yes (15-pin D-Sub plug)	yes (15-pin D-Sub plug)
Image memory	9 pictures (with a battery backup if power supply is disconnected)	1 image (freeze)
"Show all" function	yes (displays all 9 pictures of current memory as one split image)	-
Alternative Image display:	negative image / negative-blue image / black and white image (can be assigned to a Preset key)	negative image / negative-blue image / black and white image (all in on-screen menu)
PAL/NTSC video outputs (converted Progressive Scan signals)	1x S-Video (Y/C) 4-pin plug and 1x Composite Video (RCA-plug)	-
RGBHV (=data RGB) output	15-pin D-Sub-plug	15-pin D-Sub-plug
DVI output	DVI-I (digital and analog)	-
USB port	USB 1.1	USB 1.1
RS232 port and serial protocol with position setting and status report	9-pin Sub-D plug	9-pin Sub-D plug
Weight / Portability	4.5 kg (10 lbs), portable	4.5 kg (10 lbs), portable
Infrared remote control	included	-
Power (external power pack on portable units)	multi range 100-240 V weight: 0.3kg (0.6lbs)	multi range 100-240 V weight: 0.3kg (0.6lbs)
Carrying case	included (soft case)	included (soft case)
Made in	Austria (European Union)	Austria (European Union)

Specifications and availability subject to change !

Check the yellow fields to see the difference between the two units !

Your WolfVision dealer:

More information on our Internet Homepage:
www.wolfvision.com

WOLFVISION
Visualizer

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