VZ-7D / VZ-5F
PAL/NTSC-Video

WOLFVISION ®
Visualizer

Portable Series

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

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 high quality carrying cases, with pockets for all the needed accessories. The Visualizer VZ-5F comes in a standard soft case. The soft case of the VZ-7D has an expandable side pocket for a small LCD-projector or Notebook.

case without projector

case with projector

Special light system

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 video projection. There is almost no disturbing stray light from the unit to a video projection screen.

Light swing (illumination in front of the unit)
The light of the Visualizers can be turned around at an angle of up to 250 degrees. Thus, objects in front of the unit can be illuminated as perfectly as items on the working surface.

The camera head can be rotated 130 degrees.

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 Visualizer 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.

Excellent quality and design

The built-in video camera offers a resolution of 470 TV-lines and the best picture quality which can be achieved with the PAL or NTSC video technology. The smart auto white balance enables lifelike color reproduction and prevents disturbing color changes during a presentation.

Smart high speed autofocus ("thinking" system)

The smart autofocus of WolfVision's portable Visualizers recognizes all objects very quickly and precisely and determines where the focus should be set. As a result, a presenter never needs to worry about focusing.

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 autoiris and smart autofocus 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 autoiris of the room camera. Of course these features are equally important for live image presentations with a video 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.

Additional features of VZ-7D

The Visualizer VZ-5F has all the features described on the other pages of this brochure and can be considered the "base model". The Visualizer VZ-7D includes the following additional features:

Infrared remote control

In addition to the **zoom** keys, the remote control of the VZ-7D has the following additional functions:

- **Manual focus**
- **Auto focus on/off**
- **Manual iris**
- **Image on/off switch**
  (no image disturbance when switching!)
- **3 user programmable Presets**
- **Laser Pointer**

User programmable setup

The typical user does not have to adjust anything when he uses the VZ-7D. Nevertheless, experienced users have the opportunity to alter the standard settings of the unit according to their own requirements. This can be done with 10 DIP-switches hidden on the back of the VZ-7D.

Settings which can be changed include white balance, brightness, RS232 baudrate, IR codes, factory preset, manual focus priority, standby settings etc.

RS-232 control input

Through the RS-232 control input, the VZ-7D can be controlled by an external device (such as a remote control system for the whole room or a video conferencing system).

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-7D.

18 x optical zoom

The VZ-7D and VZ-5F have an optical 18 x zoom. Both units can pick up objects as large as an open book and as small as a coin on the working surface to fill the screen.

In addition the VZ-7D has a digital 4 times zoom extension, which can be swiched on if required. The digital zoom theoretically increases the complete zoom range to a 72 times zoom. Up to approx. 30 times enlargement the picture quality is still good.

Optical zoom range:

Smallest pickup area: 22 x 16 mm (0.9" x 0.6")
Largest pickup area: 356 x 259 mm (14" x 10.2")
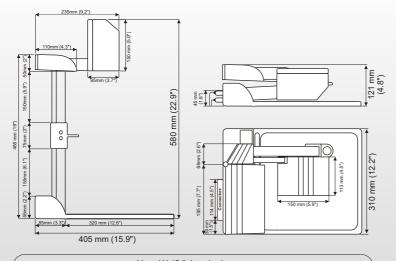*(outside of working surface the pickup area is unlimited)*

Technical data:

	VZ-7D	VZ-5F
Camera	1/4" 1-CCD Video	1/4" 1-CCD Video
Output signals	PAL or NTSC	PAL or NTSC
Pictures per second *(as picked up by the camera)*	PAL: 50 half-pictures / NTSC: 60 half-pictures	PAL: 50 half-pictures / NTSC: 60 half-pictures
Horizontal resolution	470 lines	470 lines
Effective Pixel *(=pixels which are actually used for the image information)*	752 x 582 (PAL) / 768 x 494 (NTSC)	752 x 582 (PAL) / 768 x 494 (NTSC)
Vertical image-frequency	PAL: 50 Hz / NTSC: 60 Hz	PAL: 50 Hz / NTSC: 60 Hz
Horizontal image-frequency	15.7 kHz	15.7 kHz
Signal format	interlaced	interlaced
Iris	automatic and manual	automatic
White balance adjustment	automatic and manual	automatic
Autofocus	yes (continuously working, with on/off switch)	yes (continuously working, with on/off switch)
Manual focus	yes	-
User programmable basic setup	yes (with DIP switches)	-
Lens / Zoom	18 x optical zoom (+ 4x digital, on/off switchable with DIP switches)	18 x optical zoom
Max. pick-up area on working surface:	356 x 259mm (14" x 10.2")	356 x 259mm (14" x 10.2")
Max. pick-up area outside working surface:	unlimited	unlimited
Min. pick-up area *(in full resolution)*	22 x 16 mm (0.9" x 0.6")	22 x 16 mm (0.9" x 0.6")
Min. pick-up area *(with digital zoom, low resolution)*	5,5 x 4 mm (0.2" x 0.2")	-
Max object height on working surface	130mm (5.1") in tele position / 370mm (15") in wide position	130mm (5.1") in tele position / 370mm (15") in wide position
Depth of focus	19mm (0.7") on small object (42 x 33 mm) / 305mm (12") on large object (356 x 259mm)	19mm (0.7") on small object (42 x 33 mm) / 305mm (12") on large object (356 x 259mm)
Light source	high frequency fluorescent lamp	high frequency fluorescent lamp
Reflection free area on working surface	280 x 230mm (11"x 9.1")	280 x 230mm (11"x 9.1")
Recording outside working surface	yes	yes
User programmable presets	3 (plus 8 trough RS232)	-
Slide drawer	yes	-
Image on/off switch	yes	-
Outputs	s-video *(4-pin plug)*, composite video *(RCA-plug)*, 12V for lightbox	s-video *(4-pin plug)*, composite video *(RCA-plug)*, 12V for lightbox
Inputs	serial control input *(RS232)*	-
Professional RS232 protocol with position setting and status report	yes	-
Infrared Remote Control	yes (with built-in laser pointer)	-
Weight / Portability	4.5 kg (10 lbs), portable	4.5 kg (10 lbs), portable
Supplied accessories	infrared remote control, power pack, s-video cable, carry case	power pack, s-video cable, carry case

Specifications and availability subject to change !

235mm (9.2")
110mm (4.3")
150mm (5.9")
95mm (3.7")
150mm (2")
50mm (2")
150mm (5.9")
75mm (3")
485 mm (19")
155mm (6.1")
55mm (2.2")
85mm (3.3")
320 mm (12.6")
580 mm (22.9")
405 mm (15.9")

45 mm (1.8")
66mm (2.6")
114 mm (4.5")
195 mm (7.7")
39 mm (1.5")
Connectors
150 mm (5.9")
113 mm (4.5")
121 mm (4.8")
310 mm (12.2")

Optional Accessory:

Lightbox LB-38 (for x-rays)

The Lightbox LB-38 can be placed on the working surface of all WolfVision Visualizers. It is especially designed for large x-rays, oversized slides, color separations etc. The size of the light field is very large: 430 x 359 mm (17" x 14"). It is very sleek looking, with a height of only 17 mm (0.7"). 12V power is provided from the Visualizers.

Please note, that an external lightbox is NOT necessary for transparencies as they can be picked up in much better quality on the crystalline white working surface of WolfVision's Visualizers.

Your WolfVision dealer:

WOLFVISION®
Visualizer

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