WOLFVISION
Visualizer

INSTRUCTIONS
VZ-7 / VZ-5N / VZ-5b

English

PRECAUTIONS

WARNING!

RISK OF ELECTRIC SHOCK
DANGEROUS VOLTAGE INSIDE

Caution:

To reduce the risk of electric shock, do not open the unit. No userserviceable parts inside. Refer servicing to qualified service personal only.

Warning:

To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.

1 Video camera head
2 Light
3 Connectors (on the back as shown below)
4 Working surface
5 Power on/off switch
6 Light switch
7 Close up lens for camera
8 Pull ring
9 Auto focus on/off key (a light above this key shows that the auto focus is on)
10 Zoom keys
11 Infrared remote control
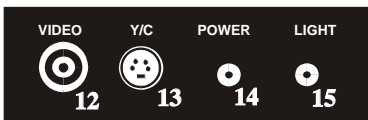
12 Composite video output (VBS)
13 Y/C (S-VHS) output
14 DC input (12 V)
15 DC output for light box

Connectors *(3)*:

VIDEO	Y/C	POWER	LIGHT
12	13	14	15

Autofocus:

When switching on the unit the autofocus is automatically switched on too. The correct focus is continuously adjusted at a very high speed. The green light beside the autofocus on/off switch *(9)* shines if the autofocus is on.

Please note that objects with a very low contrast (like a blank sheet of paper) are difficult to focus. If the autofocus does not work just move the object slightly.

For special applications the autofocus can also be switched off using the on/off switch *(9).* The autofocus is also switched off when the manual zoom keys of the remote control are used.

Manual focusing (if remote control not available):
1. Place an object at the level you wish to focus - The autofocus is focusing the object.
2. Switch off the autofocus with the on/off switch *(9)* - The focus remains unchanged from now on.

### Lightbox Handy (optional):

Connect the power cord to the light box connector *(15)* on the back side of the Visualizer.
The light switch *(6)* of the Visualizer can now be used to switch between the light of the Visualizer and the light of the lightbox.

Other lightboxes:

In order to prevent reflections the light of the Visualizer always has to be switched off when working with lightboxes.

Setting up
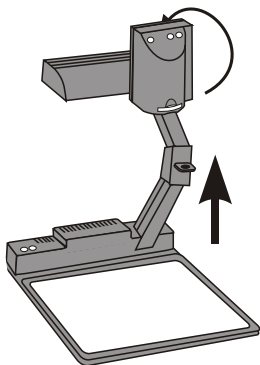
1. Pull the arm upwards using the special pull ring *(8)*
2. Turn the video camera head *(1)* and point it at the working surface
3. Connect the power adaptor to the DC-input *(14).*
4. Connect a TV-monitor, a video projector or a video recorder to the video output *(12)* or the Y/C-output *(13)*

Please note:
The picture quality is much better if you use the Y/C (S-VHS) output *(13)* rather then the composite video output *(12).* Especially with typed material in black and white.
When using the composite video output please make sure that a dedicated video cable (75W) with RCA plugs is used, and not an audio cable with RCA plugs !!!

5. Switch on the Visualizer with the power switch *(5)*

Power-on preset:
The power-on preset is automatically activated when switching on the unit. The settings are:
Zoom size approx. 20 x 15 cm (A5), Autofocus on, Autoiris on, Image on

White balance:
Please note that the white balance adjustment may not be correct when switching on the unit.
In this case just move any object in the picture. Then it will work correctly.

Shooting area on the working surface:
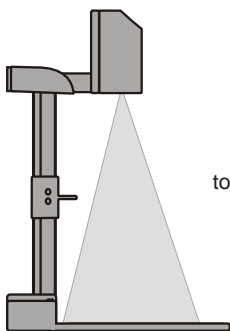
Shooting area outside of the working surface:

to infinity
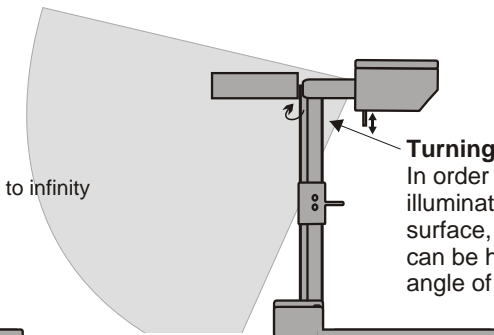
Turning the light backwards
In order to enable recordings with illumination outside of the working surface, the light of the Visualizer can be horizontally turned an angle of up to 250 degrees.

Eliminating reflections
In order to eliminate reflections (on high gloss photographs etc.) just turn the light backwards slightly.

Please note that reflections can also be caused by the room light.

Close-up adaptor lens
For shooting an object outside the working surface, in a further distance to the unit, the close up lens *(7)* has to be removed.

In this case just pull the lens away from the main optic of the camera until it reaches the locked position. It is impossible to remove the lens completely from the unit, therefore it can not get lost.

Before turning back the camera into the standard working position push the close up lens back in.

Infrared remote control (not included with VZ-5b)

One of the unique features of WolfVision's portable Visualizers is that there are only 5 buttons on the unit. Therefore anyone can use it without any instructions. For more experienced users there are some additional functions on the remote control:

ZOOM

The Zoom keys are the most important keys on the IR-remote control. That is why they stand out in white color. ZOOM keys are also on the camera head of the Visualizer.

FOCUS (manual)

When the Focus keys are pressed the Visualizer switches off the autofocus function.
The next time the zoom keys are pressed the autofocus is switched on again.

IRIS (manual brightness adjustment)

When the Iris keys are pressed the Visualizer switches off the auto iris function.
The next time the zoom keys are pressed the auto iris is switched on again.

PRESETS (pre-programmable camera settings)

Two zoom positions and camera settings can be recalled by quickly (!) pressing the Preset 1 or Preset 2 key:
The factory presets are:
Preset 1: 80mm x 60mm, Preset 2: 290mm x 217mm

Furthermore a user has the opportunity to store his own presets. By pressing one of the Preset keys for more than 4 seconds, the present camera and zoom settings are stored as a preset. Please note that if the Visualizer is not used for a long time the factory presets reappear when the unit is switched on again.

IMAGE on / off

The Visualizer's image output by the video output *(12)* or Y/C-output *(13)* can be switched on and off with these keys.
There is absolutely no monitor image distortion when switching on and off, because the Visualizer actually outputs a black signal in the off position.
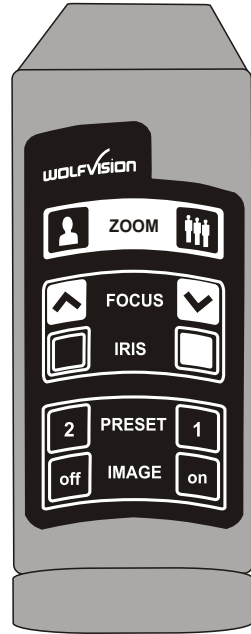
Changing the batteries

If the Visualizer can only be controlled from a close distance or if it cannot be controlled at all with the infrared remote control you may have to change the battery.

Open the cover of the remote control with a flat object (for example a coin or a big screwdriver) and replace the two 1.5 V AA batteries with new ones.
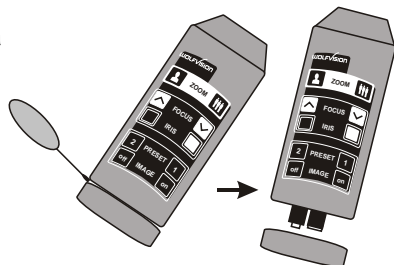
Switching to playback of a video recorder

WolfVision Visualizers do not have an input switch because the following method of connecting a video recorder is much easier and requires no switching at all:

Connect the video output *(12)* or the Y/C (S-VHS) output *(13)* of the Visualizer to the according input of the video recorder. Connect the video or Y/C (S-VHS) output of the video recorder with the input of your monitor or video projector.

Adjust the video recorder so that the picture of the Visualizer will be shown
(Make sure that the input switch of the video recorder is in the right position.
 If the video recorder has a TV-tuner switch to channel "0" or "AV"):

Visualizer picture:

Position: "Stop"

video out   video in   video out   video in
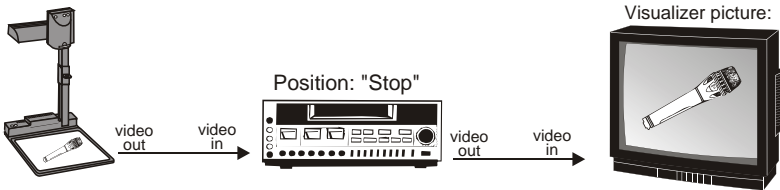
When the video recorder is switched to "Play", the picture of the video recorder
is shown (without any separate switching):

video recorder picture:

Position: "Play"

video out   video in   video out   video in
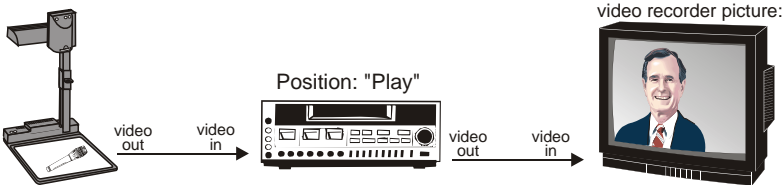
When the video recorder is switched to "Stop" again, the picture of the visualizer
reappears (without separate switching).

Serial control input, RS 232 (not included with VZ-5b)

The serial port can be used to control the Visualizer through an external device, like a remote control system for a whole conferencing room.

It can also be used to control the Visualizer through a computer. A special Windows-software for PC is available from WolfVision.

1 2 3 4 5
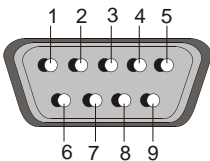
9-pin D-Sub connector on unit
male, front side

6 7 8 9

Pins: 2: RX, 3: TX, 5: GND, 7: RTS, 8: CTS
Baud rate: 19200, databits: 8, stopbit: 1, parity: no

Between sending codes should be a break of
250ms minimum !

Please note that Decimal-Codes (=ASCII-Codes
or Hex-Codes) must be sent as one single byte
(e.g. 199 and not: 1 + 1 + 9) !

Function:	Decimal-Code :
Image on	192
Iris open	193
Focus far	194
Zoom wide	195
Image off	196
Iris close	197
Focus near	198
Zoom tele	199
Preset 1	202
Preset 2	203
Save Preset 1	216
Save Preset 2	217
Preset max. wide	229
Preset A5	231
Preset A6	232
Preset max. tele	235

(detailed description of serial
 protocol available on request)

Technical data:

Pick-up element / video:	VZ-7 / VZ-5N / VZ-5b
Built-in camera system:	1 CCD unit - 1/3" interline transfer
Effective pixels:	PAL models: 752 x 582, NTSC models: 768 x 494
Horizontal resolution:	> 460 TV lines
Iris:	automatic and manual (only automatic on VZ-5b)
Autofocus:	continously working with high speed, on/off switch
Optics:	12 x telezoom, 5.4 - 64.8mm, f =1.8~2.7
Depth of focus (depth of field):	14mm (0.6") on smallest picture, size: 31 x 23mm (1,2" x 0.9") 18mm (0.7") on small picture, size: 42 x 33mm (1.7" x 1.3") 200mm (8") on largest picture, size: 360x270mm (14,4"x10.8")
Operation:	
Camera control panel:	<u>functions</u>: zoom in, zoom out, autofocus on/off
Infrared remote control (not on VZ-5b)	<u>functions</u>: zoom, manual focus, iris, presets, image on/off
Power and Light controls:	power on/off, light on / off or light on lightbox
Power-on preset:	autofocus on, autoiris on, pick-up size: 210 x 140mm
Lighting element:	
Light source:	high frequency neon light
Light system:	light either on working surface or in front of the unit, no blinding of audience or speaker, very low stray light
Scanning area:	
Objects on working surface:	<u>width</u>: 23-270mm (0.9"-10.8"), <u>length</u>: 31-360mm (1.2"-14.4"), <u>height</u>: up to 110mm (4.4") in tele position (smallest picture) up to 370mm (15") in wide position (largest picture)
Objects in a room:	length, width and height to infinity
Connections:	
Y/C (S-VHS) output:	4-pin connector, <u>Y-signal</u>: 1 Vpp 75W, <u>C-signal</u>: 0.3 Vpp 75W,
Composite video output:	RCA-connector, VBS 1.0 Vpp 75W
Serial control input:	Configuration: RS 232 (not available on VZ-5b)
General specifications:	
Power consumption:	max. 25 VA
Power source:	12 V DC
Made in:	Austria (European Community)
Weight:	<u>Visualizer</u>: 4.6kg (10lbs), <u>Power pack</u>: 0.7kg (1.5lbs)
Accesories (Scope of supply):	
Mains power pack:	100V or 110-120 V or 220-240 V AC / 12 V DC, 1.5 A
Carrying case (leather imitation):	450x350x130mm (17.7"x13.8"x5.1"), black, side and inside pockets
Other supplied accessories:	Y/C (S-VHS) cable, instructions,IR-remote control (not on VZ-5b)
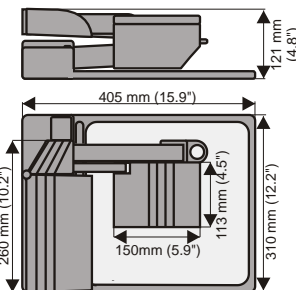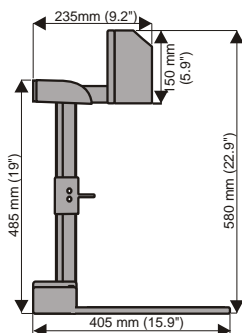
Specifications and availability subject to change.

Changing the lamp of the Visualizer:

1. Remove the power cord of the Visualizer.
2. Remove lamp housing glass. (1 Screw)
3. Remove the safety clip
4. Change the lamp.
   CAUTION: Hot when used!

<u>Lamp type</u>: Osram Dulux S/E
9W/21 or equivalent