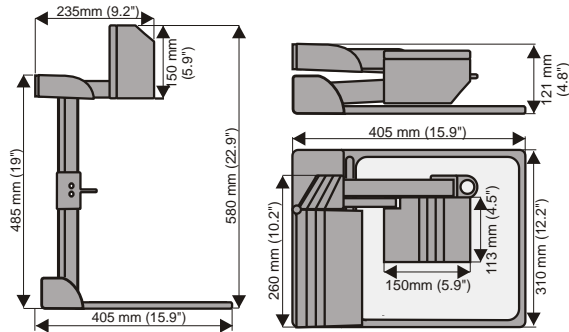


## Technical data:

Built-in camera system:	1 CCD unit – 1/3" interline transfer
Effective pixels:	PAL models: 752x582 / NTSC models: 768x494
Horizontal resolution:	> 470 TV lines
Iris:	automatic
Autofocus:	dynamic high speed, on/off switch
White balance:	automatic
Optics (5,4 – 64,8mm, f=1,8–2,7):	24x zoom (12x optical + 2 x digital)
Depth of focus (depth of field):	14mm (0,6") on smallest picture, size: 16x12mm (0,6"x0,5") 18mm (0,7") on small picture, size: 42x33mm (1,7" x1,3") 200mm (8") on largest picture, size: 360x270mm (14,4"x10,8")
Camera control panel:	functions: zoom in, zoom out, autofocus 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: 210x140mm
Light source:	high frequency fluorescent lamp
Light system:	light either on working surface or in front of the unit, no blinding of audience or speaker, very low stray light
Objects on working surface (length x width):	min.: 16x12mm (0,6"x0,5"), max.: 360x270mm (14,4"x10,8")
Objects on working surface (height):	up to 370mm (15") in wide position - 110mm (4,4") in tele position
Objects in a room:	length, width, and height to infinity
Y/C (S-video) output:	4-pin connector, Y-signal: 1 Vpp 75 , C-signal: 0,3 Vpp 75
Composite video output:	RCA-connector, VBS 1,0 Vpp 75
12 V DC output:	for external lightbox or LCD-monitor
Power consumption:	max. 25 VA
Power source:	12 V DC
Made in:	Austria (European Community)
Weight:	Visualizer: 4,6kg (10lbs), Power pack: 0,7kg (1,1 lbs)
<b>Accessories (Scope of supply):</b>	
Mains power pack:	90 – 240 V AC / 12 V DC, 1,5 A
Carrying case (Soft case)	included (standard edition)
Other supplied accessories:	Y/C (S-video) cable, instructions

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!

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

### CONTACTS:

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Tel. (650)802-0786 and 1-800-356WOLF, Fax: (650)802-0788, E-Mail: wolfvision.usa@wolfvision.com

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**Internet Homepage:** <http://www.wolfvision.com>, **Technical support by E-mail:** [support@wolfvision.com](mailto:support@wolfvision.com)

Made in: Austria (EC)

Printed in Austria

November 2001

**WOLFVISION**  
Visualizer

## Instructions

**VZ-5D**  
English



## PRECAUTIONS

### WARNING!

Risk of electric shock - Dangerous voltage inside

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



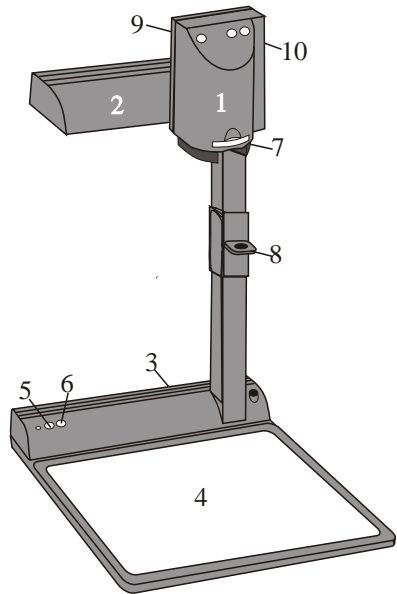
This product is built according to Directive EMC and to Directive electrical equipment.

Proofmarks according to UL 1950. CSA - C 22.2 No. 950-95



**FCC**

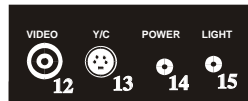
This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.



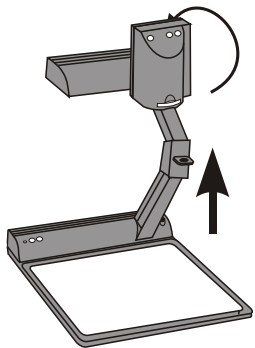
- 1 Video camera head
- 2 Light
- 3 Connectors (on the back, see below)
- 4 Working surface
- 5 Power on/off key
- 6 Light key
- 7 Close up lens for camera
- 8 Pull ring
- 9 Auto focus on/off key (a light above this key shows that the auto focus is on)
- 10 Zoom keys

### Connectors (3):

- 12 Composite video output (VBS)
- 13 Y/C (S-video) output
- 14 DC input (12 V)
- 15 DC output for lightbox



## 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-video) output (13) rather than 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 (75 ) with RCA plugs is used, and not an audio cable with RCA plugs !!!

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

## Digital Zoom (Additional feature of the model VZ-5D)

All portable Visualizers have an **optical 12 x zoom** lens. In addition the VZ-7D and the VZ-5D have a 2x digital zoom extension, which increases the overall zoom range to **24 x zoom**. The smallest pickup size on the working surface without (!) digital zoom is 23 x 31mm (0.9"x1.2"). When you zoom in further the digital zoom is automatically activated and the smallest pickup size is 12x16mm (0.5"x0.6"). However please be aware that when the digital zoom is used the resolution of the picture is not as good as before.

## 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

## 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) indicates if the autofocus is on.

Please note that objects with 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).

## Manual focusing

1. Place an object at the level you wish to focus  
The autofocus is now focusing the object.
2. Switch off the autofocus with the on/off switch (9).  
The focus remains unchanged from now on.

### WolfVision Lightboxes (optional)

Connect the power cord to the Lightbox 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.

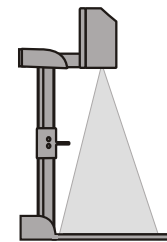
### Other Lightboxes

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

## Automatic white balance

When the Visualizer is switched on it works with a precise **automatic white balance**. Please note that immediately after the unit is switched on, the white balance adjustment may not be 100% correct. In this case just move any object in the picture. From this moment on it works perfect.

## Shooting area on the working surface

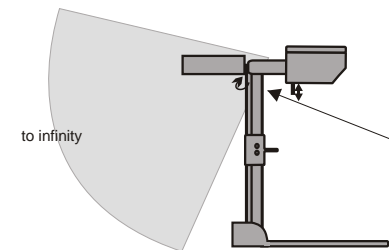


### Eliminating reflections

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.

## Shooting area outside of the working surface



### 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°.

### 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, thus it can not get lost. Before turning back the camera into the standard working position push the close up lens back in.