

Dukane DVP506 Digital Visualizer

User Manual



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6-11-09

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Chapter 1 Precautions

Always follow these safety instructions when setting up and using the Digital Visualizer:

1. Do not place the Digital Visualizer on an unstable cart, stand or table.
2. Do not use the Digital Visualizer near water or source of heat.
3. Use attachments only as recommended.
4. Use the type of power source indicated on the Digital Visualizer. If you are not sure of the type of power available, consult your dealer or local electricity company for advice.
5. Place the Digital Visualizer can be easily unplugged.
6. Always take the following precautions when handling the plug. Failure to do so may result in sparks or fire.
 - Ensure the plug is free of dust before inserting it into a socket.
 - Ensure that the plug is inserted into the socket securely.
7. Do not overload wall sockets, extensions leads or multi-way plug boards as this may cause fire or electric shock.
8. Do not place the Digital Visualizer where the cord can be stepped on as this may result in fraying or damage to the lead or the plug.
9. Unplug the projector form the wall socket before cleaning. Use a damp cloth for cleaning. Do not use liquid or aerosol cleaners.
10. Do not block the slots and openings in the projector case. They provide ventilation and prevent the Digital Visualizer from overheating. Do not place the Digital Visualizer on a sofa, rug or other soft surface or in a built-in installation unless proper ventilation is provided.
11. Never push objects of any kind through cabinet slots. Never allow liquid of any kind to spill into the Digital Visualizer.
12. Except as specifically instructed in this User's Manual, do not attempt to operate this product by yourself. Opening or removing covers may expose you to dangerous voltages and other hazards. Refer all servicing to licensed service personnel.
13. Unplug the Digital Visualizer during thunderstorms or if it is not going to be used for an extended period, do not place the Digital Visualizer or remote control on top of beat-emitting equipment or heated objects such as a car and etc.
14. In the following situations, unplug the Digital Visualizer from the wall outlet and refer servicing to licensed service personnel:
 - If the power cable or plug becomes damaged or frayed.
 - If liquid is spilled into it or the Digital Visualizer has been exposed to rain or water.

Safety Precautions

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

This Digital Visualizer has a 3 wires AC line Plug. This is a safety feature to ensure that the plug will fit into the power outlet. Do not try to defeat this safety feature.

If the Digital Visualizer will not be used for an extended time, unplug it from the power outlet.

CAUTION RISK OF ELECTRIC SHOCK		
Caution: To reduce the risk of electric shock. Do not remove cover (or back). No user-serviceable parts inside. Refer servicing to licensed service Personnel.		
	This symbol indicates that dangerous voltage constituting a risk of electric shock is present within this unit.	 This symbol indicates that there are important operating and maintenance instructions in this User's Manual with this unit.

FCC Warning

This Digital Visualizer has been certified to comply with the limits for a Class A computing device, pursuant to Subpart J of Part 15

of FCC Rules. These limits are designed to provide reasonable protection against a harmful interference when the equipment is operated in a commercial environment.

EN55022 (CE Radiation) Warning

This product is intended for use in a commercial, industrial, or educational environment. It is not intended for residential use.

This is a Class A product. And in a domestic environment it may cause radio interference, in which case the user may be required to take adequate measures. The typical use is in a school room, conference room, meeting room or auditorium.

If this device causes interference to radio or television, users can modify the interference with the following methods:

- ◆ Readjust the direction of the antenna of the radio or the television.
- ◆ Readjust the position between this device and the receiver.
- ◆ Connect the power plug of this device and the device in different sockets.
- ◆ Use a screwdriver to fasten the power plug to ensure EMI control and the device operates in its normal fashion.

Chapter 2 Package Content

Please make sure the package comes with the following items.

DVP506



Quick start guide



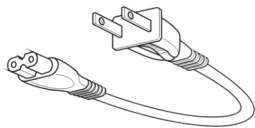
User Manual



Download Card



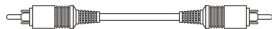
Power Cable



USB Cable



C-Video Cable



VGA Cable

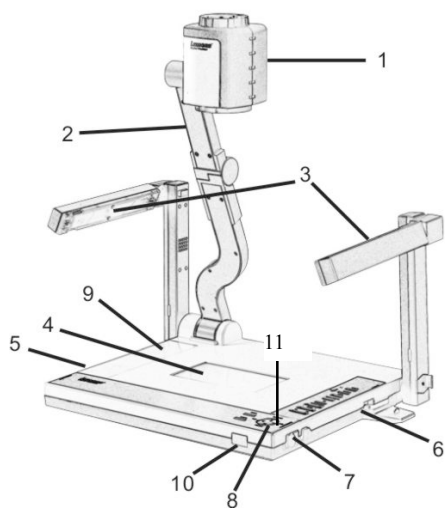


Remote Control



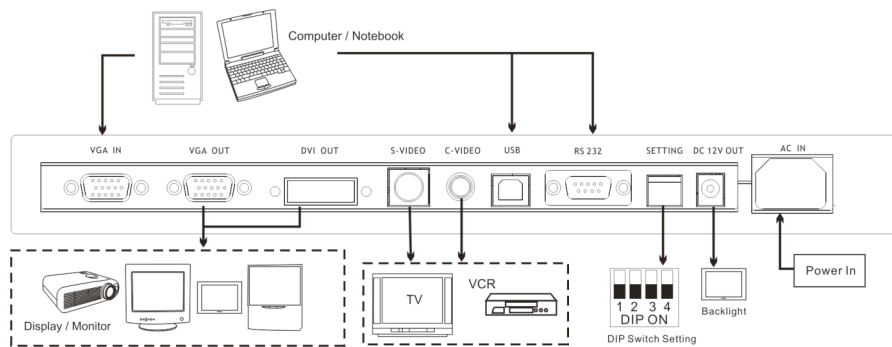
Chapter 3 Product Overview

3.1 Front View/ Rear View



1. Camera Head
2. Camera Arm
3. Lamp
4. Backlight
5. Remote Control Slot
6. CF card slot
7. Lamp lock
8. Control Panel
9. Button Function Guide
10. IR Sensor (used for Remote Control)
11. Input/Output Port (including DIP Setting)

3.2 I/O Connector



1. VGA IN

Connect to VGA-out of other device, for example PC

2. VGA OUT

Connect to VGA-in of another visual device

3. DVI OUT

Digital & Analog Receptacle Connector

4. S-VIDEO

S-Video for video output

5. C-VIDEO

C-Video for composite video output

6. USB

Connecting to a computer

7. RS232

Connect external device with RS232, e.g., central control system used in classroom or meeting

8. Setting

Setting output signal modes

9. DC 12V output

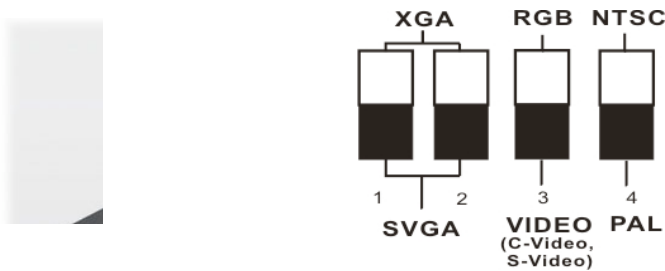
Output the 12V (DC) from Digital Visualizer, such as the backlight.

10. AC-in

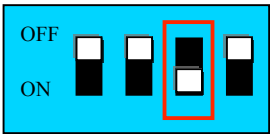
Use this to connect the power cable (100 - 240V) for the power input

3.3 DIP Switch Setting

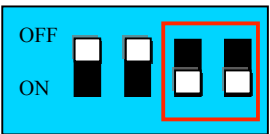
3.3.1 RGB & XGA Output (Default)



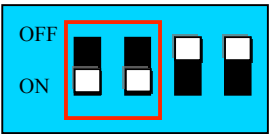
3.3.2 Video Output (NTSC) NTSC for USA 、 Taiwan 、 Panama 、 Philippines 、 Canada 、 Chile 、 Japan 、 Korea 、 Mexico



3.3.3 Video Output (PAL) PAL Setting: Others than above NTSC listed countries.

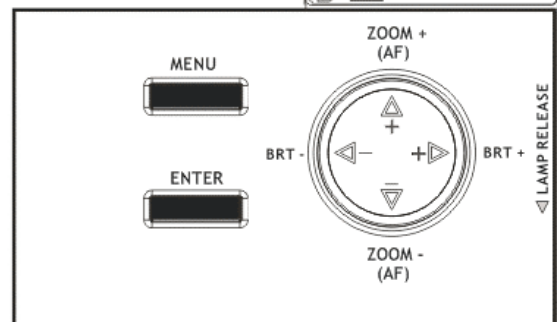
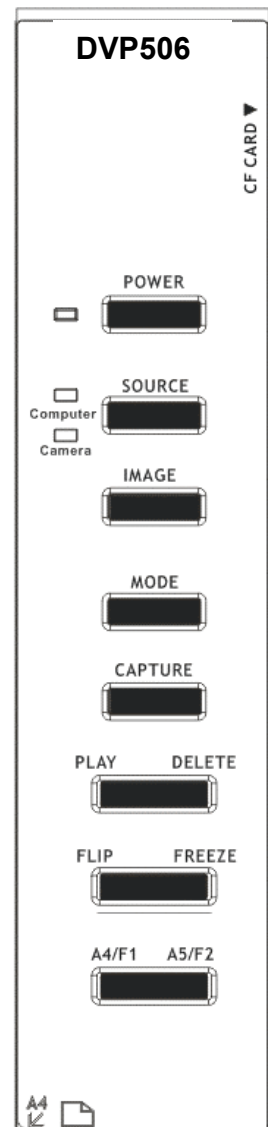


3.3.4 SVGA (600 x 800)Output



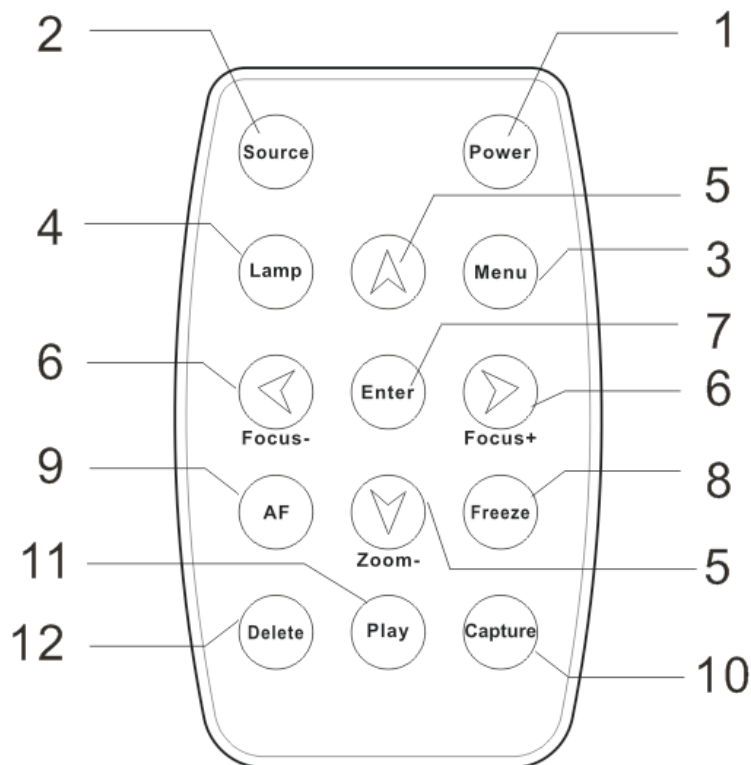
3.4 Control Panel

1. **Power**
Power on/off
2. **Source**
Select PC or Camera to output
3. **Image**
Change between Photo or Text mode
4. **Mode**
Select Normal/Film/Slide/Microscope
5. **Capture**
Capture image to internal memory
6. **Play, Delete**
Recall/delete the saved images in the Digital Visualizer
7. **FLIP**
Rotate the image by 180°
8. **Freeze**
Freeze the image on screen
9. **A4/F1,A5/F2**
Speedy zoom to A4/ A5 size by pressing A4 or A5
F1/F2 allows to customize functions
10. **Zoom + /-**
Zoom in/out by pressing continuously
11. **AF**
Auto focus by pressing once
12. **Brightness +/-**
Brightness Adjustment by pressing BRT(+ /-)
13. **Menu**
Access into the OSD (On screen Display) menu. Press direction buttons to select one menu and click Enter to get into that menu item
14. **Enter**
Used for job confirmation under OSD interface



3.4 Remote Control

1. **Power**
Power on/off
2. **Source**
Select PC or Camera to Output
3. **Menu**
Access into the OSD menu. Press direction buttons to select one menu and press Enter to get into that menu item
4. **Lamp**
Switch / on / off the lamp and backlight
5. **Zoom + /-**
Zoom in/out by pressing +/-
6. **Focus +/-**
Manual focus for fine tune
7. **Enter**
Enable the selected function
8. **Freeze**
Freeze the image on screen
9. **AF**
Auto Focus
10. **Capture**
Capture image to internal memory
11. **Play**
Recalls thumbnails of the saved images in the Digital Visualizer or Plays image selected.
12. **Delete**
Deletes the saved image in the Digital Visualizer

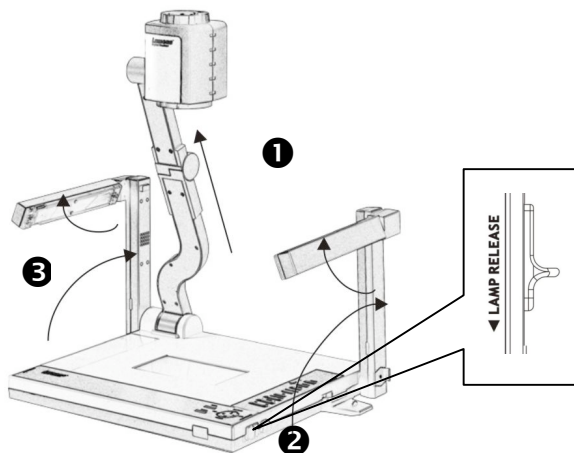


※ **Caution** : Using the wrong model battery might cause an explosion. Also please follow the related instruction to discard the battery.
se

Chapter 4 Installation

4.1 Setup the Digital Visualizer

1. Pull up the arm. The camera head should be aimed at the center of the Visualizer.
2. Press and hold the Lamp release on both side of the Visualizer and push the Lamp release outside to pull up the lamp.
3. Turning the camera head toward the platform according to the direction of the arrows below.



※Note : The angle of the camera head is limited. Don't turn it forcefully when it reaches the maximal angle.

4.2 Turning ON the Digital Visualizer

※ **Note** : Before using the Digital Visualizer, make sure that you have connected it to the computer, video source, or other output devices. See Figure: 3-2, Rear View for the position of the connector jack.

1. Press <POWER> and open Digital Visualizer. The red LED (blinks till finishing the initialization). It then becomes green.
2. Press <LAMP> on remote control to activate light sources on both sides or the backlight source.
3. You can position the lamp at an angle to obtain better illumination.

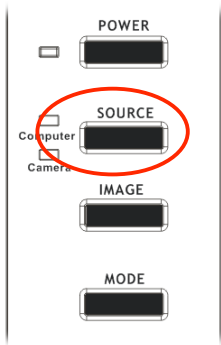
Chapter 5 Operation

5.1 Basic Functions

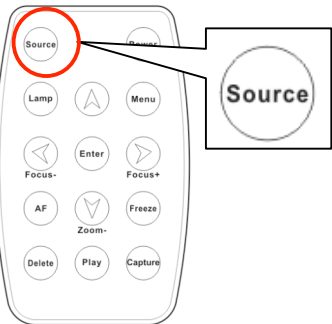
5.1.1 Source

The default input source is set as "Camera", press 『Source』 to switch.

Control Panel



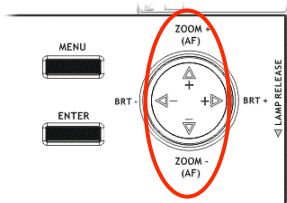
Remote Control



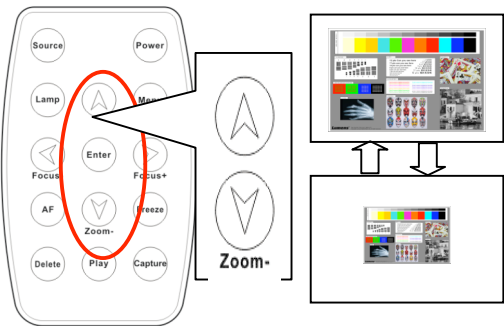
5.1.2 Zoom In/Out

Zoom in/out by pressing continuously

Control Panel

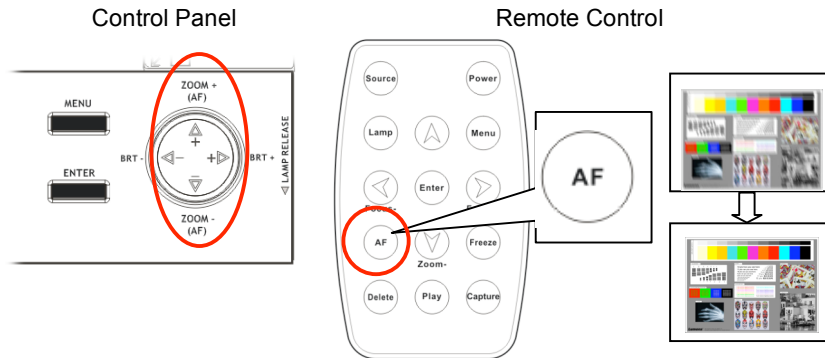


Remote Control

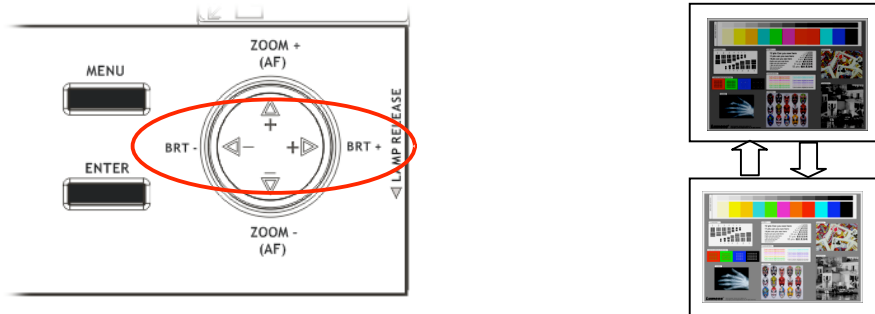


5.1.3 Auto Focus

Execute AF by pressing once.

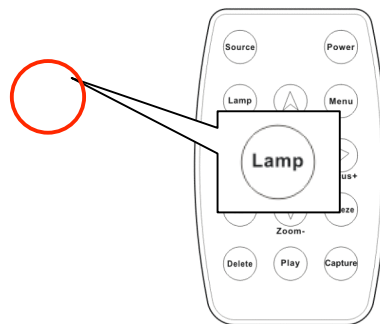


5.1.4 Brightness

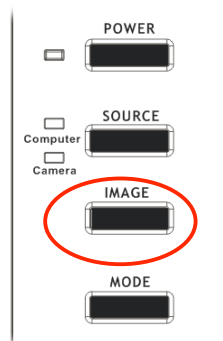


5.1.5 Lamp

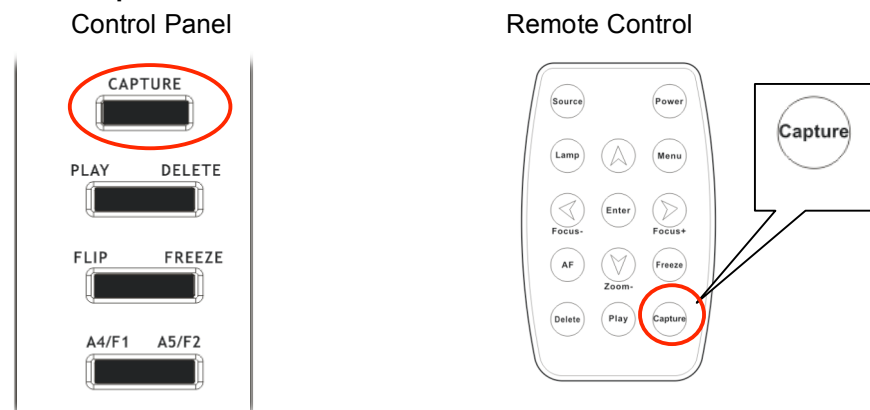
Switch ; ON / OFF the lamp and backlight



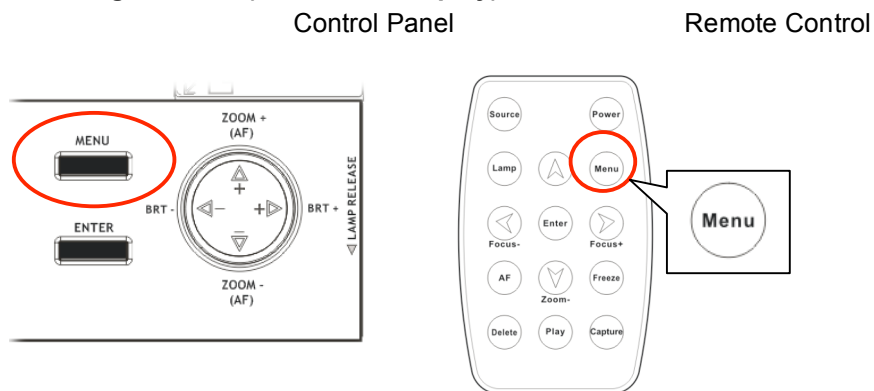
5.1.6 Photo/Text/Gray



5.1.7 Capture



5.1.8 Viewing the OSD (On Screen Display) Menu



5.2 Advanced Functions

5.2.1 Playing Back Captured Images

Remote Control or Control Panel :

1. Press 『Play』 to display all the captured images miniature.
2. Press 『▼▲◀▶』 to select the miniature image that you want.
3. Press 『Enter』 to display the image on the full screen.
4. Press 『◀▶』 to move up and down the images.
5. Press 『Play』 to return to main screen.
6. Press 『Menu』 to exit.

5.2.2 Delete Captured Images

Remote Control or Control Panel :

1. Press 『Play』 to access into browsing screen.
2. Press 『▼▲◀▶』 to select the miniature image that you want.
3. Press 『Delete』 to delete the selected miniature.
4. Press 『Menu』 to exit.

5.2.3 Customized Function (F1/F2)

Control Panel :

1. Press 『Image』 and 『F1/F2』 to enter setting menu.
2. Press 『▼▲』 to select 『Flip』、『Focus + 』、『Focus - 』、『Preset』 .
3. Press 『Menu』 to exit.
4. Execute the customized function set before, and press 『Enter』 and 『F1/F2』 at the same time.

5.2.4 Auto Erase

To delete all captured images when a user turns off the power.

Remote Control or Control Panel :

1. Press 『Menu』 to enter OSD menu.
2. Press 『◀▶』 to select 『Storage』 .
3. Press 『▼▲』 to select 『Auto Erase』 .
4. Press 『◀▶』 to select 『on/off』
5. Press 『Menu』 to exit.

5.3 OSD (On Screen Display) Function Introduction

5.3.1 Using OSD Menu

Use Remote Control or Control Panel :

1. Press 『Menu』 to enter OSD menu.
2. Press 『▼▲』 to select function menu.
3. Press 『Enter』 to enter menu.
4. Press 『▼▲』 to choose function.
5. 『▶◀』 means more than one menu. Use 『▶◀』 to execute specified function.
6. 『↵』 means one menu only. Press 『Enter』 to execute the specified function.
7. Press 『Menu』 to exit OSD menu.

※Note: After opening the function menu, the system will close the menu automatically if unused for a period of time.

5.3.2 OSD Menu

Layer 1	Layer 2	Layer 3	Description
Display	Lamp	ON (default)/OFF	
	AE	ON (default)/OFF	Exposure is set automatically
	AWB	Execute	Auto white balance.
	Focus		Adjust image focus
	Digital Zoom	ON/OFF (default)	
Storage	Delete All	Execute	Delete all captured images
	Format	Execute	Format
	Auto Erase	On / Off	Delete all captured images when user turns off the power.
	Media	Internal / PC card	
Setting	Language	English / Deutsch / French / Italian / Eapanol / Русский / English / Traditional Chinese /Simplified Chinese	Select your native language
	Factory Reset	Enter / Exit	Reset all default setting
	Preset Load	Execute	load setting parameters
	Preset Save	Execute	Save setting parameters
	F1	Flip, Preset, Focus+/-	
	F2	Flip, Preset, Focus+/-	

5.4 Other Functions

5.4.1 Viewing Remote Objects

Remote Control / Control Pad:

1. Press 『Zoom+』 or 『Zoom-』 to view the scene.
2. If the remote image is inverted, please press 『Menu』 to open OSD menu and choose 『Flip』.

5.4.2 Viewing Positive/Negative Images

1. The objects must be placed on the backlight board.
2. Press 『Mode』 to access switching options, Positive/Negative.

5.4.3 Using USB and RS232

➤ USB

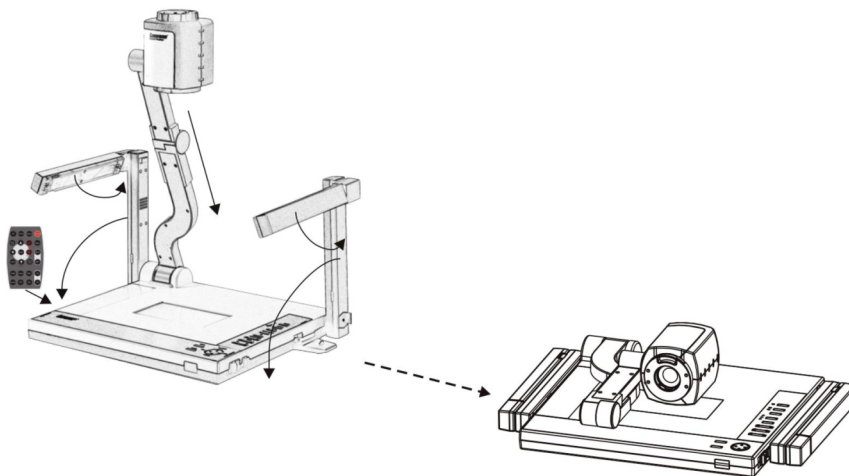
You can transmit images to computer via USB interface. On the PC the images can be displayed, annotated, captured, and video recordings obtained. To enhance USB transmission, make sure that your PC supports USB protocol (the Digital Visualizer is based on USB 1.1 / 2.0 Full speed and USB software). For detailed information, please refer to software user's guide. Go to the Dukane web site for the specific model to obtain the USB software (queue) and the driver. **www.dukcorp.com/av**

➤ RS232

RS232, is a serial protocol, which facilitates remote control functions. For example, you can control the Digital Visualizer installed in a conference room from a PC in another building via RS232. (Refer to 3.2 I/O Connectors)

Storage after Use

1. Fold the arm and camera head until they touch the stage
2. Turn the camera until it is parallel with the stage.
3. Turn the upper lamps toward the supporting arms
4. Insert the remote control into the slot on the right side of the Digital Visualizer.
5. Fold arms to both sides of the Digital Visualizer until they lock in place.



Chapter 6 Q & A

This chapter describes the problems you might encounter when you use this Digital Visualizer. If you have a problem, refer to the appropriate section and follow all the suggestions that apply to your problem. If none of the suggested solutions solves the problem, call your dealer or your service center.

- **Q1: The system indicator does not come on.**

No power is available. Check that the power cord is connected securely at both the power outlet and the Visualizer.

- **Q2: No image appears on the screen.**

- 1- Press different signal buttons and then press the selected SOURCE signal button.
- 2- Make sure all of the cables are installed correctly and securely.
- 3- Check that the power of the LCD monitor or projector is turned on.
- 4- Make sure the object is positioned in the shooting area.

- **Q3: The image or parts of the image are blurred or not in focus.**

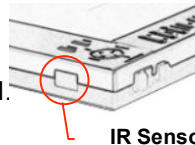
The lens focusing is possibly not correct because the object is tilted or not in the best position. Press the AF (Auto Focus) on the remote control.

- **Q4: Image is too dark or too bright.**

Press the <BRT+> 、<BRT-> on the control panel to adjust the brightness setting.

- **Q5: Remote Control does not work.**

- 1- Please be sure the remote control is aimed at the IR sensor on the front edge of the base.
- 2- Please check the battery in the remote control.



IR Sensor

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