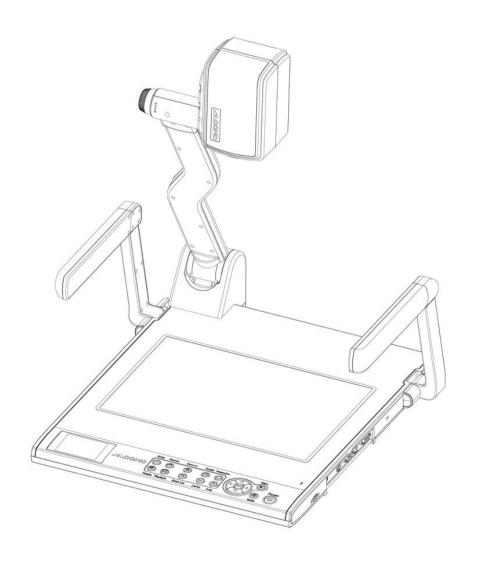


QD5000 4K UHD Visualizer

User Manual

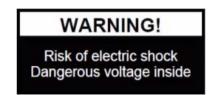


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Precautions

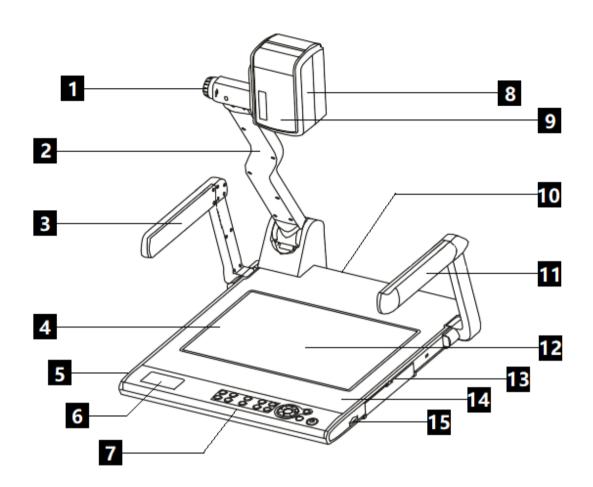




Please follow these precautions:

- To prevent fire or shock hazards, do not expose the unit to rain or moisture.
- •To prevent electrical shock, do not open the cabinet. Refer to qualified personnel for service only.
- •Do not use the unit continuously for more than 24 hours with camera autofocus on. It may cause damage to the camera lens.
- •Be careful not to spill water or other liquids onto the unit, or allow combustible or metallic objects to get inside the cabinet.
- •Unplug the visualizer from the wall outlet when it is not in use for an extended period.
- •Clean the cabinet with a soft cloth lightly moistened with a mild detergent. Clean the lens carefully with an air spray or soft dry cloth to avoid scratching. When lamps flash or become dark, they should be replaced with new ones. Avoid interchanging arm lamps and bottom lamps frequently.

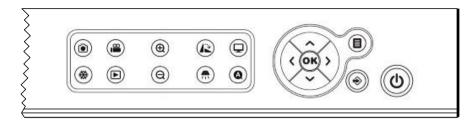
Parts Identification



- 1. Zoom in/Zoom out Knob
- 2. Camera Stand
- 3. Left Arm Lamp
- 4. Bottom Lamp
- 5. Remote Control Slot
- 6. Preview screen
- 7. Control Panel
- 8. Camera Case

- 9. Infrared Receive Area
- 10. Rear Connector
- 11. Right Arm Lamp
- 12. Work Stage
- 13. Side Connector
- 14. Built-in Microphone
- 15. SD Card Slot

Control Panel



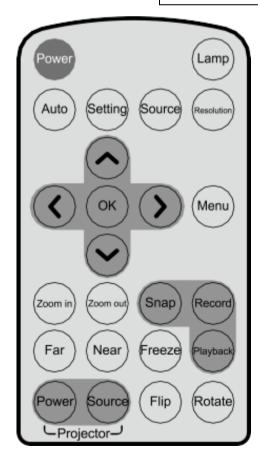
Button operation instruction

ம	Power On/Off, press and hold 3 seconds to off.
	To show or hide the menu/Delete button in the playlist.
◆	Select a Visualizer input signal.
(a)	Capture a still image.
,82	Record a video clip, and press it again to stop recording.
**	Freeze the image / Press and hold for 3 seconds to split
▶	Re-display stored images and videos.
12	Image rotation of 0°,90°,180°, and 270°.
	Select resolution from 720P, 1080P, and 4K directly.
	Control the arm lamp and bottom lamp.
A	Autofocus.
-	Move the cursor Left/Focus Far.
<u> </u>	Move the cursor Right/Focus Near.
×	Move the cursor Up/Increase the brightness.
~	Move the cursor Down/Decrease the brightness.
ОК	Confirm key.
Ф	Zoom in.
Q	Zoom out.

Remote Control

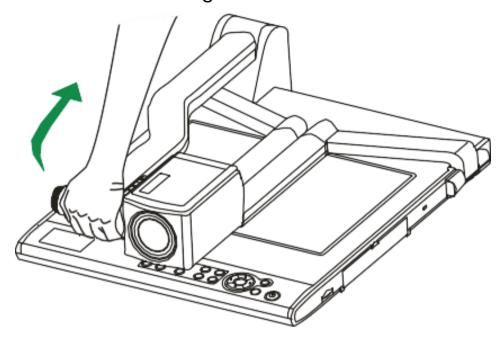
Power	Control the visualizer on/off
Lamp	Control the arm lamp and bottom lamp
Auto	autofocus
Setting	Select the Visualizer input signal
Source	Select the Visualizer input signal
Resolution	Select resolution from 720P, 1080P, and 4K directly
<ο̂κ>	Move the cursor Left, Right, Up, Down/Confirm
Menu	Invoke menu

Zoom in/ Zoom out	Increase and decrease magnification
Snap	Capture a still image
Record	Record a video clip
Far/Near	Focus near or far
Freeze	Freeze the image, press again to unfreeze
Playback	Re-display stored imaged and videos
Flip	V-Reverse the image
Rotate	Imagerotation of 0°,90°,180°,270°

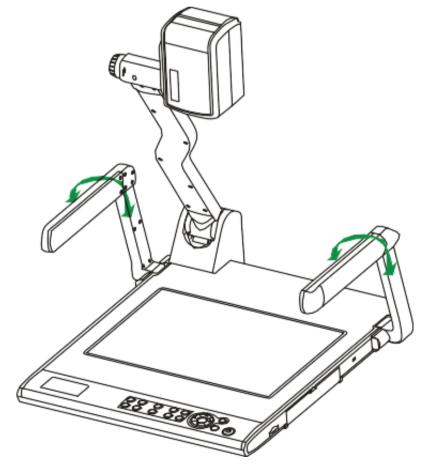


Basic Preparations

1. Place one hand firmly on the base of the visualizer, while carefully lifting the camera stand using the other hand.



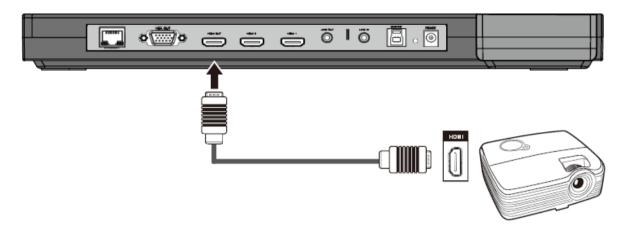
2. Open the arm lights and rotate the camera head until they are properly positioned.



Making Connections

Connect to the projector or monitor

Use the HDMI cable to connect the HDMI out port to the projector's or monitor's HDMI input port.



 \triangle

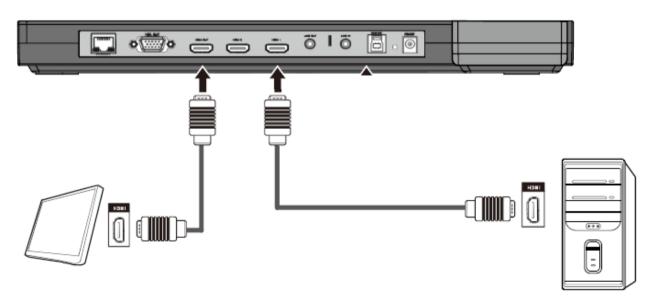
You can also connect the VGA OUT port to the matching port.

• Connect to a desktop computer

Use the HDMI cable to connect the HDMI out port to the monitor's HDMI input port.

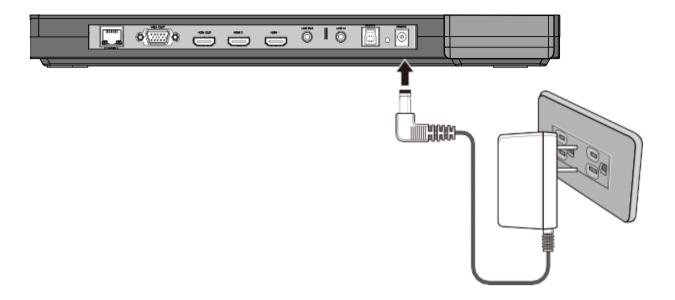
Use the HDMI cable to connect the HDMI in 1 port to the computer's HDMI out port.

Now You can switch sources to display the computer or camera screen.



Connect power source

Connect the power cord to the 12V IN connector.





Before making any connections, turn off all the power. Please ensure that the visualizer along with all other equipment to be connected are turned off.

Mouse Operating Instructions

Move the mouse guide to the bottom middle of the screen, and the operation menu will pop up, and the menu functions are as follows:

Name	Icon	Name	lcon	Name	Icon
Annotation		Auto	AF	Zoom in	(+)
Zoom out		Rotate	(•)	Mirror	
Freeze	***	Snap		Record	
Replay	©\$	Setting	202		

Menu Operating Instructions

Name	lcon	Selection	Functions Description	
Function		Resolution	720P/1080P/2160P	
	••	Focus Mode	Auto Focus/ Manual Focus	
	••	Mask	Activate the Mask function	
		Split	Activate the Split function	
lan er er e		Photo Resolution	3840*2160	
Image		Recording	2160P@30FPS/1080P@30FPS/	
Setting		Resolution	720P@30FPS	
		Language	Support Chinese, English	
		System Time /		
		Time Setting	User-defined	
		Display	Set to display the information on top of the	
		Information	display or not.	
			Copy to external storage	
System			Delete all	
Setting		File Manager	Format external storage	
			Connect USB Drive to PC	
			Connect SD card to PC	
		System Reset	Ensure/ Ignore	
		System Upgrade	Ensure/ Ignore	
		Lens FW upgrade	Ensure/ Ignore	
		PC Control	USB/DB9/PS2	
		User Profile	User 1/User 2/User 3	
		Mask Setting	10%-80%	
			Normal	
		Mirror	Left-right Mode	
			Up-down Mode	
			Normal	
		Effect	Black-white Mode	
Effect Setting	Effect Setting		Negative Mode	
		Flicker	Auto/50HZ/60HZ/Disable	
		Brightness,		
		Sharpness,	•	
		DNR,		
		Contrast,	Use (^/√) to adjust its setting.	
		Saturation		
Time-lapse		ON/OFF		
Photo		Interval	User-defined	

Basic Operation

Device power on

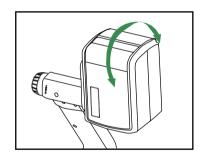
After connecting the power source, please wait for the source indicator to turn off, only the red light of the power button is on, and then press the power button.

Working on the stage

Place your material on the platform. Select the enlargement required using the "zoom in/zoom out" knob. Adjust the focus of the "AUTO" button.

Working outside the stage

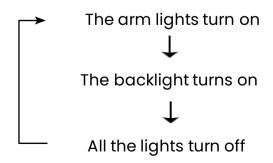
To show a 3-dimensional object using the visualizer, place the object on the working surface and adjust the "zoom in/out" and "AUTO" keys. If the object is too large for the stage or if you would like to show it from one of its sides, or a different angle, just place the object behind or in front of the unit and manually tilt the camera head (remove the close-up lens before titling the camera head).



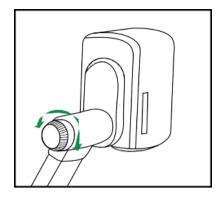
Rotate 330 degrees vertically

Light

The arm lights are powered on when the power is turned on. Each time you press the "LAMP" button, the lighting changes occur as demonstrated.



Adjusting image size



To reduce or enlarge the image size displayed on the screen, rotate the Zoom in or Zoom out knob, or use the buttons on the control panel.

Quickly switch resolutions

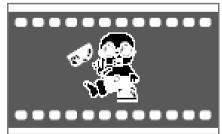
The factory default resolution is 1080P, switch the device between 2160p, 1080P, and 720P by clicking the "Resolution" button on the control panel.



When using HDMI OUT to output video signal, when setting 2160p resolution, please make sure your monitor supports the display 4K screen. Otherwise, there will be no screen display, please press the "Resolution" button to switch to other resolutions.

Working with negatives





Positive

Negative

The visualizer is automatically set to display normal materials on the screen when the power is on. To display negatives, turn on the backlight by pressing the "LAMP" button, and then select (Effect Setting) in the menu-(Effect)-select "Negative" to display the film negatives. In the (Effect) list select "Normal" to display normal materials in the color mode.

Focusing

When the visualizer is turned on the focus automatically adjusts to the stage, press the "AUTO" button to autofocus. You can also manually adjust the focus with the near focus button or the far focus button.

• Freezingimage

To show a still image on the screen, press the "Freeze" button. The frozen image cannot be adjusted (Zoom in/out, color adjustment, etc.).

Recording videos and Play

Press the "Record" button to Record a video clip, and press it again to stop recording.

Press the "Playback" button, The latest video will be displayed, Use the "up/down/Left/Right" buttons to select the file to be displayed, then press the "OK" button to play the video.



Recorded videos are automatically saved every 20 minutes

• Camera / HDMI / VGA inputs

Press the "Source" button to switch between VGA, HDMI, and Camera signals. Each time the "Source" button is pressed, it provides seamless transitions among different sources such as VGA, HDMI IN 1, HDMI IN 2, and Camera.



HDMI IN signals can only output from HDMI OUT. VGA IN signals can only output from VGA OUT.

Image rotation

To rotate the image, press the "Rotate" button once, and the displayed image will be rotated 90,180,270 degrees clockwise. Continue to press the "Rotate" button to restore the image to its initial position.

Infrared remote control

The visualizer's remote control can control the camera from different angles. On the left side of the visualizer stage, there is a built-in remote control storage compartment where you can store the remote control when it is not in use.

Please note that an infrared remote control can only be used up to a certain distance from the unit. Objects situated between the visualizer and the infrared remote control and a weak battery may interfere with the reception.

Installing visualizer software QCamera

The visualizer is a standard UVC camera – you can use it with a variety of software that supports a UVC camera connection. The visualizer is compatible with the third-party video conferencing software Zoom, Microsoft Teams, or Google Meet. However, to better experience the 4K UHD visualizer UVC function, we'd recommend using it with the QCamera and you can download this free from the QOMO website at the link below.

https://www.gomo.com/gcamera



When the UVC function is in use, only Zoom in/out, Near, Far, lamp, brightness, Flip, and Autofocus functions are available on the panel and remote control.



To get the visualizer out of UVC mode, please manually disconnect the Camera from the software or exit the software, do not unplug the USB cable directly.

Controlling visualizer by computer

You can connect the DB9 (RS232) interface/PS2 interface/USB-type B interface on the visualizer to a computer to control the visualizer. For example, control via the DB9 interface:

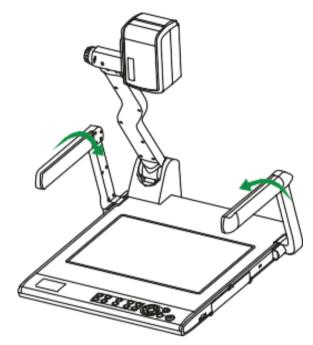
- A. Connect the computer and the visualizer using the RS232 cable.
- B. select (System Setting) in the menu-(PC Control)-select "DB9" to control the visualizer.
- C. Use any serial port debugging software to control.

RS232 code list

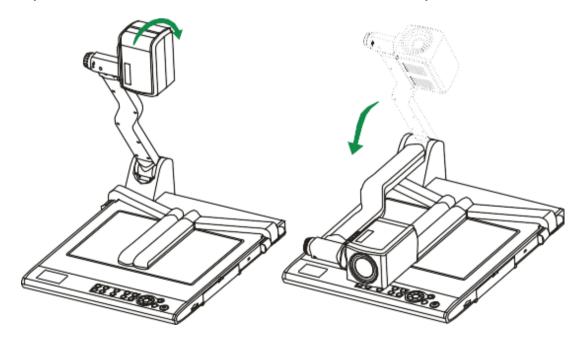
Baud rate: 9600bps Stop bit: 1-bit	Data bits: 8-bit
	unication encoding: Hex code
Function	Required Commands (Hex)
Power ON	48 02 28 01 54
Power OFF	48 02 18 02 54
Up	48 02 28 le 54
Down	48 02 28 If 54
Left	48 02 28 20 54
Right	48 02 28 21 54
OK	48 02 28 22 54
Menu	48 02 28 14 54
Bottom menu	48 02 28 ld 54
Focus Far	48 04 17 08 00 02 54
Focus Near	48 04 17 08 00 03 54
Autofocus	48 02 18 03 54
Zoom in	48 04 17 07 00 04 54
Zoom out	48 04 17 07 00 05 54
Arm lamp	48 04 16 09 00 01 54
Bottom lamp	48 04 16 09 00 02 54
All lamp Off	48 04 16 09 00 00 54
Brightness Inc	48 04 17 14 00 02 54
Brightness Dec	48 04 17 14 00 03 54
Capture	48 02 28 04 54
Replay	48 02 28 07 54
Record	48 02 28 05 54
720P	48 04 16 12 00 ac 54
1080P	48 04 16 12 00 10 54
2160P	48 04 16 12 00 11 54
B&W	48 04 16 10 00 01 54
Color	48 04 16 10 00 00 54
Rotate	48 04 17 0g 00 01 54
Mirror	48 04 16 0b 00 01 54
Freeze	48 04 16 0c 00 01 54
Switch the source to VGA	48 04 16 13 00 01 54
Switch the source to HDMI2	48 04 16 13 00 02 54
Switch the source to HDMII	48 04 16 13 00 03 54
Switch the source to Camera	48 04 16 13 00 00 54
OWNED THE SOURCE TO CALLED	TO 07 10 10 00 00 07

Folding The Unit

• Fold the right arm light down first onto the base, then the left arm down. Rotate the camera head clockwise until the camera head is parallel to the camera stand.



• Carefully fold the camera stand down to the front panel.





- a. Do not lay the unit down flat.
- b. Do not try to stand it on its rear or sides.
- c. Do not try to pick up this unit by pulling the camera

Problems And Solutions

Problem	Possible causes	Solutions
The device does	The power adapter is not	Make sure the power adapter r is
not turn on in the connected correctly to the		connected correctly to the device
normal condition.	device or the power socket.	and power socket.
After the device is connected, there	The device is not connected to the external equipment correctly.	Re-connect the device with the external equipment.
	The external equipment is not selected correctly.	Select the correct external equipment.
	The resolution of the external equipment is set incorrectly.	Reset the resolution of the external equipment.
is no image	The device is not switched to	Switch to the correct source of
output.	the correct source of signals.	signals.
	The computer transfer key (VGA) is activated.	Press the source of the signal (CAM).
	HDMI is activated.	Press the source of the signal (CAM).
The image can not be moved around because the Freeze function of the device is activated.		Press again the Freeze function key on the control panel or the remote control to deactivate the function.
	The battery runs out.	Please replace the battery.
The remote control does not respond.	Objects are located between the remote control and the device and block the communication signals.	Please remove the objects that block the communication signals.
	The distance between the remote control and the device is too far.	Please shorten the distance between the remote control and the device.

Specifications

10 / 0 / 17			
Lens	10X Optical Zoom		
	10X Digital Zoom		
Shooting Area	Α4		
	720P: 1280 x 720		
Video Resolution	1080P: 1920 x 1080		
	2160P: 3840 x 2160		
Image sensor Resolution	8.3 Mega UHD		
Frame Rate 4K@30fps max			
Camera Rotation Vertically 330°			
Image Rotation	0°/90°/180°/270°		
	HDMI 1.4b x 2		
	USB2.0 TYPE A x 1		
	RS232 DB9 x 1		
	RS232 PS2 x 1		
Input Connector	VGA x 1		
	VGA AUDIO x 1		
	Line in x 1		
	RJ45 x 1		
	Line out x 1		
	USB3.0 Type B x 1(UVC)		
Output Connector	HDMI 1.4b x 1(4K@30fps)		
	VGA x 1(1080P@60ps)		
Microphone	Built-in		
USB (UVC)	Yes		
Video Output Yes			
On board Memory	Yes		
Memory card	SD		
LCD Preview	Yes		
Focus	Auto/Manual selectable		
White balance/exposure	Auto		
Image split	Yes		
Negative/positive conversion	Yes		
Black/white and color selection	Yes		
Image Freeze	Yes		
Mirror	Yes		
Remote Controller Yes			
Annotation	Yes		
Mouse control	Yes		
Ethernet	Yes		
	Arm Lamp: 1.5W LED lamps x 2		
Lights	Bottom Lamp: 2.5W LED lamps		
SD Card Slot	Yes (64GB max)		
USB Memory Slot	Yes		
	100		

Power Requirements	12V 2A external AC adapter	
	Folded: 510 x 410 x 120mm	
Dimension (W x D x H)	Setup: 510 x 530 x 570mm	
	Packing: 600 x 200 x 480mm	

Note: Specifications are subject to change without notice



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