

Aver M70Wv2 Mechanical Arm Wireless Visualizer



# Aver M70Wv2 Mechanical Arm Wireless Visualizer Instruction Manual

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**Aver M70Wv2 Mechanical Arm Wireless Visualizer**



## Product Information

### Specifications:

- Model: M70Wv2
- Package Contents:
  - M70Wv2
  - Power Adaptor
  - Power cord\*
  - Remote controller
  - AAA Battery (x2)
  - USB Cable
  - Quick Start Guide
  - Warranty card
  - 2nd Wi-Fi Dongle (Europe, Japan, Taiwan only)
- Optional Accessories:
  - Carrying Bag
  - Anti-glare Sheet
  - Microscope Adapter (28mm and 34mm Rubber Coupler included)

## Product Usage Instructions

### Parts Info:

1. Camera head
2. LED lamp
3. Arm
4. IR sensor
5. Control panel
6. Handle

### Compound Key:

Press the key to cycle through different resolutions and modes.

### Remote Control:

- **POWER:** Turn the camera on or off.
- **Wi-Fi/USB:** Switch between Wi-Fi and USB modes.

### Control Panel Functions:

### Frequently Asked Questions (FAQ):

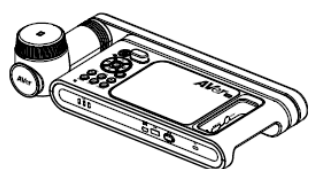
- **How do I switch between camera and computer video signals?**

To switch between camera and computer video signals, use the CAMERA/PC button on the remote control.

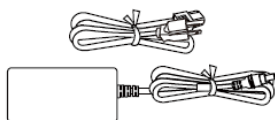
- **How can I capture still images in Camera mode?**

To capture still images in Camera mode, press the CAPTURE button on the remote control.

### Package Contents



**M70Wv2\***



**Power Adaptor  
Power cord\*\***



**Remote controller**



**AAA Battery (x2)**



**USB Cable**



**Quick Start Guide**



**Warranty card  
(Europe, Japan,  
Taiwan only)**



**2nd Wi-Fi Dongle**

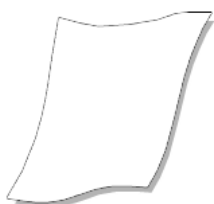
The M70Wv2 comes with a pre-installed Wi-Fi dongle.

\*\*The power cord will vary depending on the standard power outlet of the country where it is sold.

### Optional Accessories



**Carrying Bag**

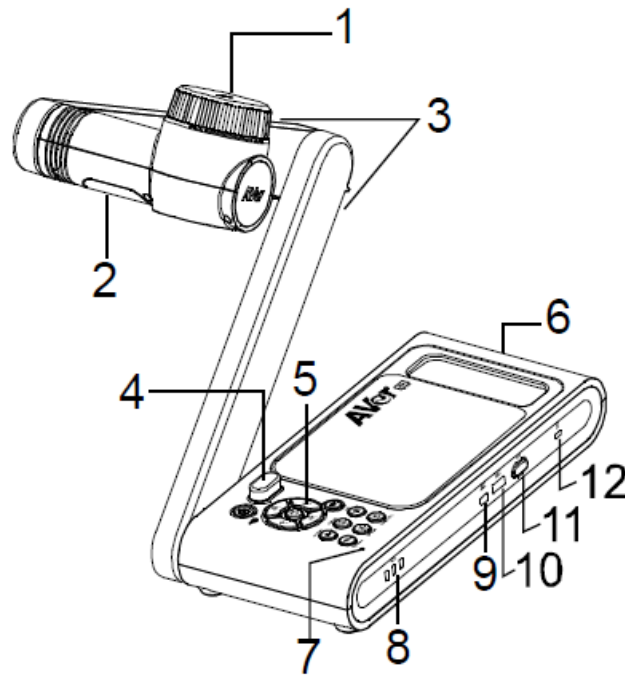


**Anti-glare Sheet**

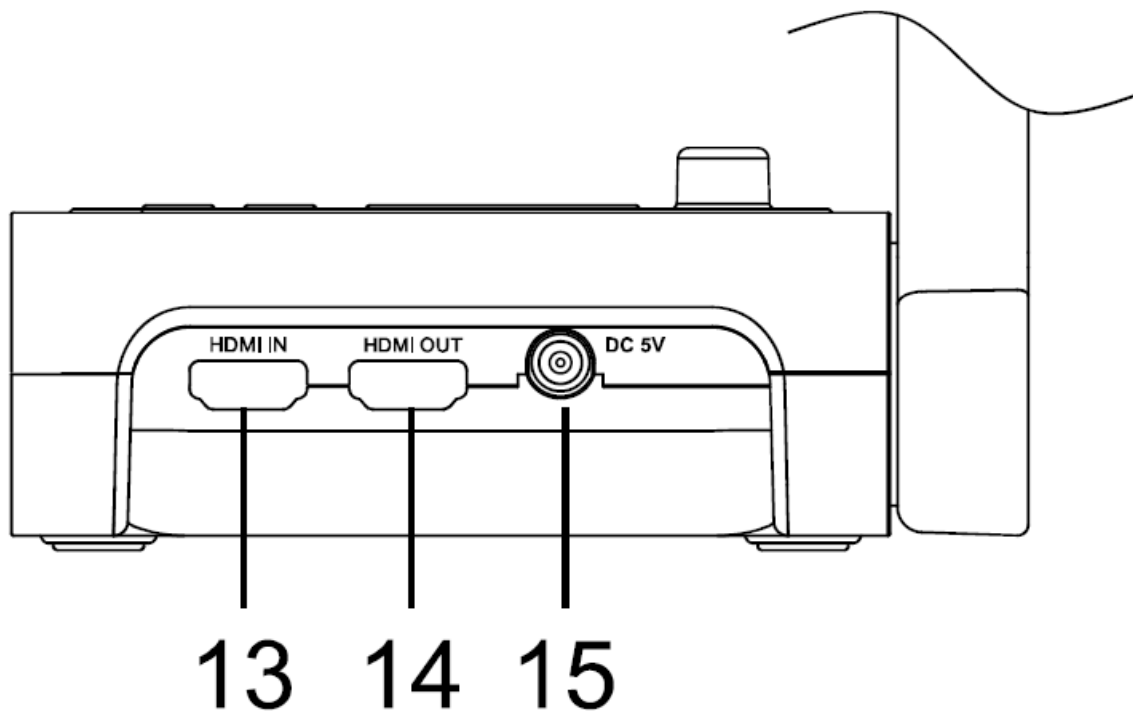


**Microscope Adapter  
( 28mm and 34mm Rubber Coupler are included)**

## Parts Info



- 1. Camera head
- 2. LED lamp
- 3. Arm
- 4. IR sensor
- 5. Control panel
- 6. Handle
- 7. Built-in mic
- 8. Battery indicator
- 9. USB mini port
- 10. USB port
- 11. Wi-Fi dongle
- 12. Kensington lock



- 13. HDMI input
- 14. HDMI output
- 15. DC power jack

### Compound Key



Reset to factory default settings.

### RESOLUTION



With each press, cycle through the following resolutions:

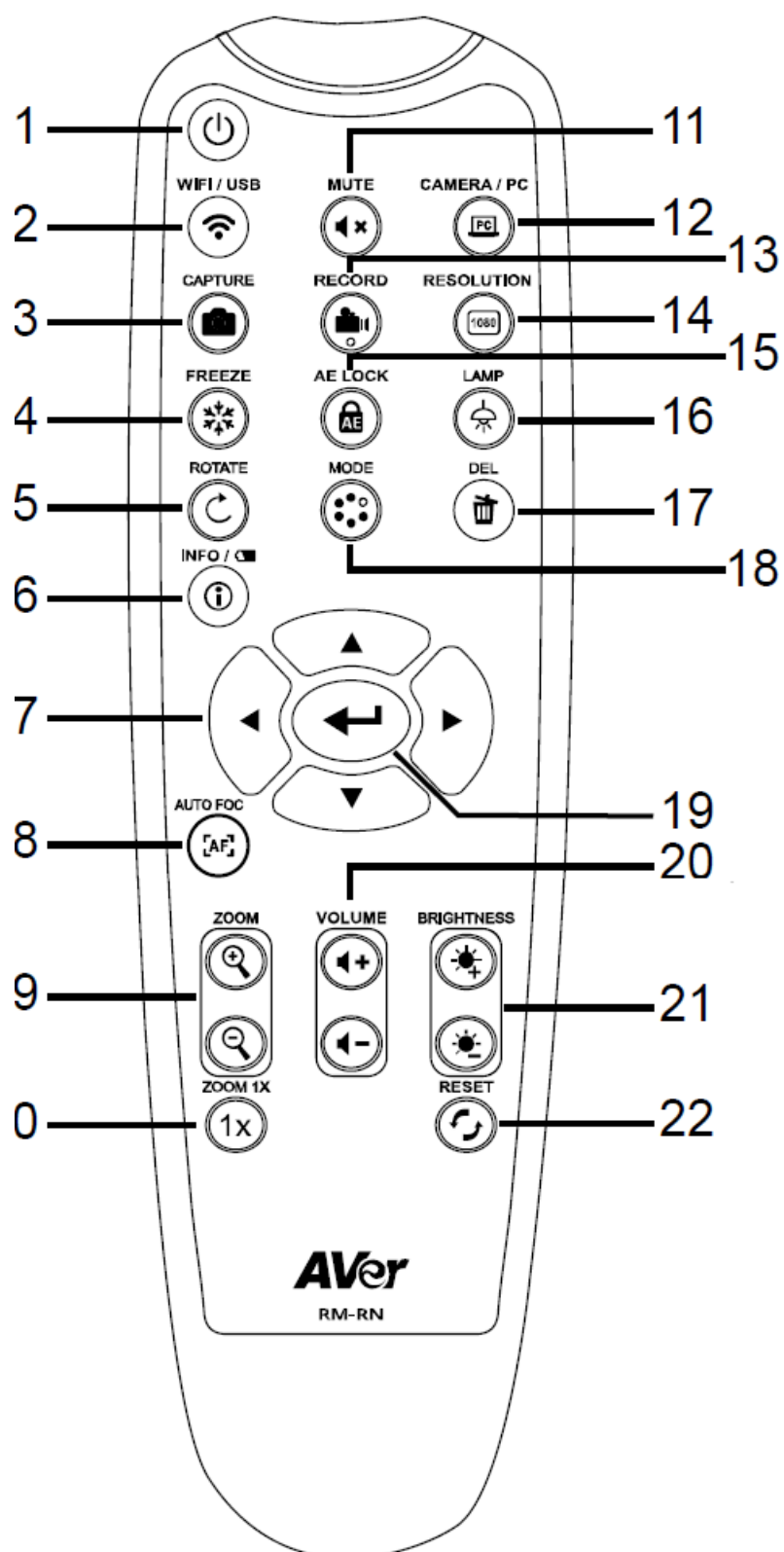
- Auto detection (4K, 720P, 1080P)
- 1024×768 (in supported HDMI device)
- 4K 60Hz (in supported HDMI device)



### MODE



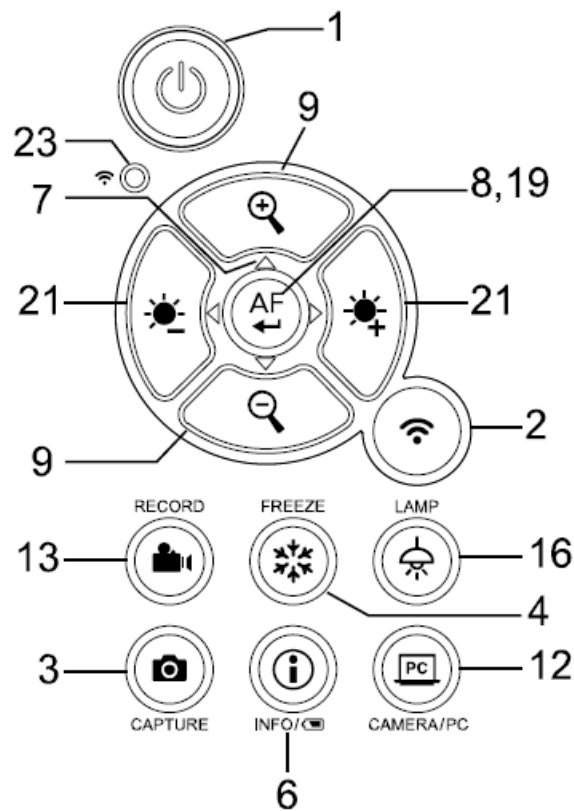
With each press, cycle through Normal, Motion, High quality, Microscope, Infinity, and Marco modes.

## Remote Control





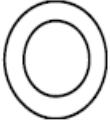


Name	Function
1. POWER	Turn the camera on or off.
2. Wi-Fi/USB	Switch between Wi-Fi and USB modes.
3. CAPTURE	Capture still image in Camera mode. In continuous capture mode, press this button again to stop.
4. FREEZE	Freeze live images.
5. ROTATE	Rotate the image by 0/180° in Camera mode.
6. INFO/ 	Press to view system information and battery power status.
7. ▲, ▼, ◀, & ▶	Pan and zoom-in image in live streaming.
8. AUTO FOC	Adjust the focus automatically.
9. ZOOM +/-	Increase/decrease the image magnification in camera mode.
10. ZOOM 1X	Reset zoom level to 100%.
11. MUTE	Set the volume to mute.
12. CAMERA / PC	Switch the video signal between camera and computer from the HDMI Input port
13. RECORD	Start/Stop audio & video recording. Video recording can only be saved in a USB flash drive.
14. RESOULTION	Press to switch between following modes: <ul style="list-style-type: none"> <li>• Auto detects the best resolution(4K, 720P, 1080P)</li> <li>• 1024×768 (in supported HDMI device)</li> <li>• 4K 60Hz (in supported HDMI device)</li> </ul>
15. AE LOCK	Lock the exposure to stop M70Wv2 attempting to find optimal exposure.
16. LAMP	Turn the overhead light on/off.
17. DEL	Delete the selected picture/video in Playback mode.
18. MODE	Press to switch between Normal, High frame, and High quality, Microscope, Infinity, or Marco mode.
19. 	Make a selection.
20. VOLUME +/-	Adjust the volume.
21. BRIGHTNESS +/-	Adjust the brightness.
22. RESET +/-	Reset to factory default setting.
23. Wi-Fi Indicator	Wi-Fi status indicator: Refer to <LED Indicator>.

## Control Panel



## LED Indicator

Name	Status indicator
<b>Power</b> 	<b>Solid green:</b> Power on <b>No light:</b> Power off <b>Solid red:</b> Standby (Camera is connected to power but not in operation.)
<b>Battery</b>  	<b>Solid green(x3):</b> Battery is full(100%-60%) <b>Solid green(x2):</b> Battery is 60%-30% <b>Solid green(x1):</b> Battery is 30%-5% <b>Solid red (x1):</b> Battery is 5%-0% <b>Flashing red (x1):</b> Battery is out of power <b>Solid orange(x3):</b> Battery is abnormal
<b>Wi-Fi</b>  	<b>Solid blue:</b> AP Mode Ready / STA connected <b>Slow flashing blue:</b> Software connection with camera <b>Short flashing blue:</b> Create AP mode / STA connecting <b>Solid green:</b> Miracast mode ready <b>Slow flashing green:</b> Miracast streaming start <b>Quick flashing green:</b> Miracast device scan / connecting

### [Note]

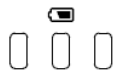
The battery will be exhausted for long-term usage. Do not replace the battery yourself. Please contact your dealer.

## Device Connection

### Charge Your Camera

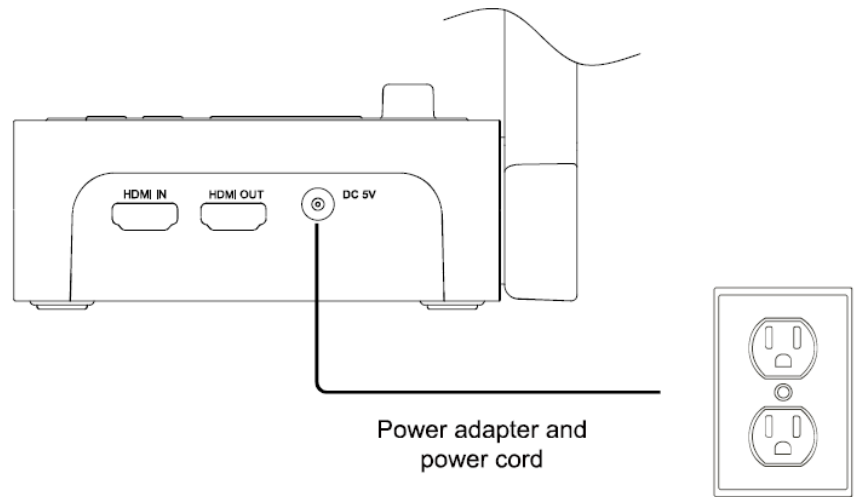
Your camera comes with a built-in battery. Before using it for the first time, charge it for at least 3 hours. Connect to a power outlet using the included power adapter and power cord.







3 flashing green lights: Charging

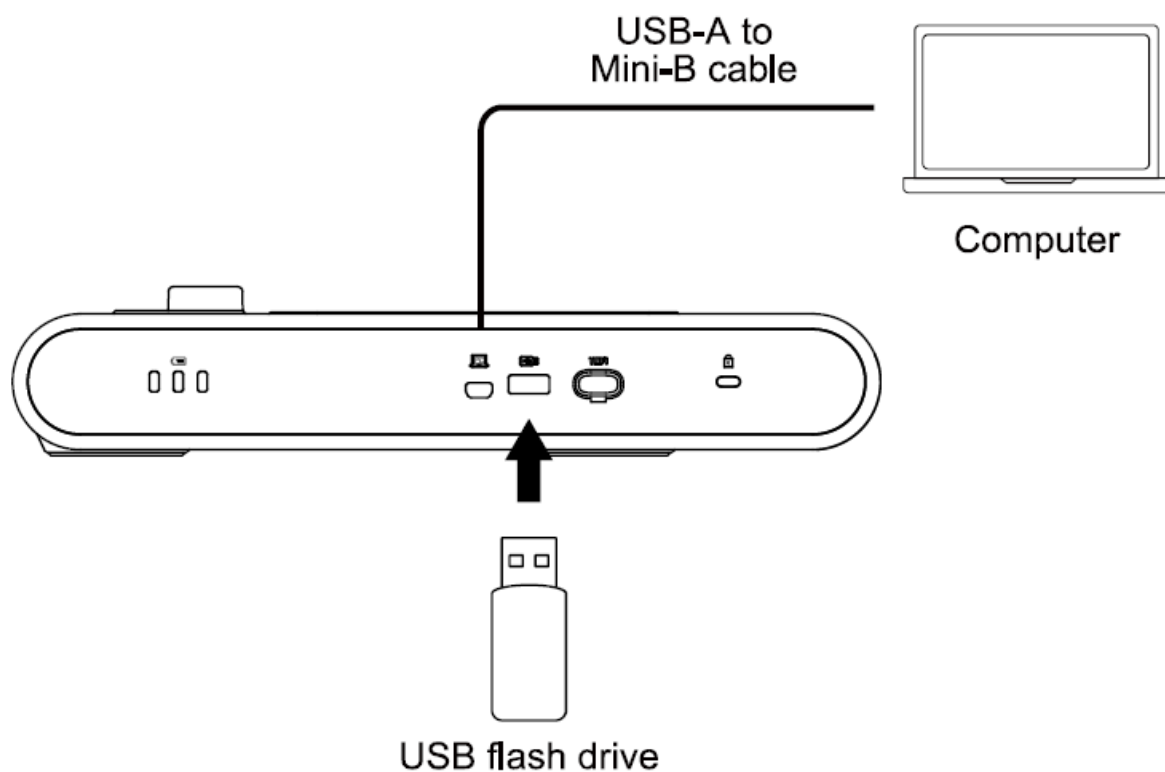
3 solid green lights: Charged



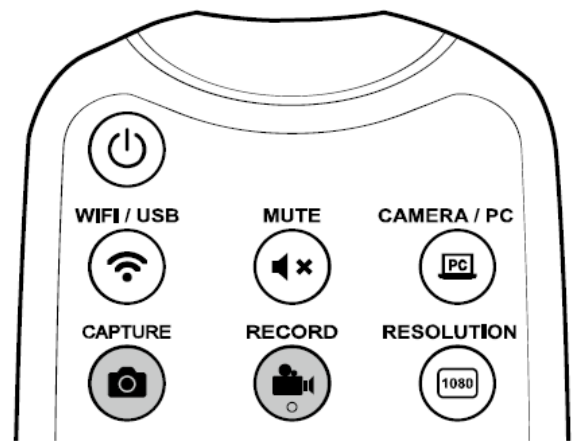
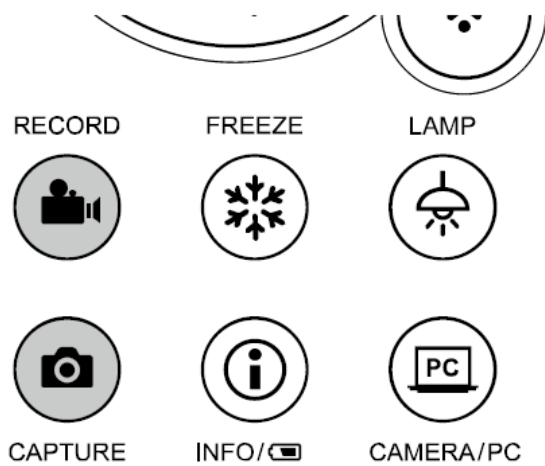
- You can also use a computer to charge your camera.
  - Your camera must not be in operation. A solid red light on the power button indicates that it is in Standby mode.
  - Connect the included USB cable to the mini USB port on the camera and connect the other end to a USB port on a computer. Charging with a computer will be slower.
- If your camera is frozen, press  +  to restart.

## USB Connection

Connect to a computer using the included USB cable to work with video conferencing software.

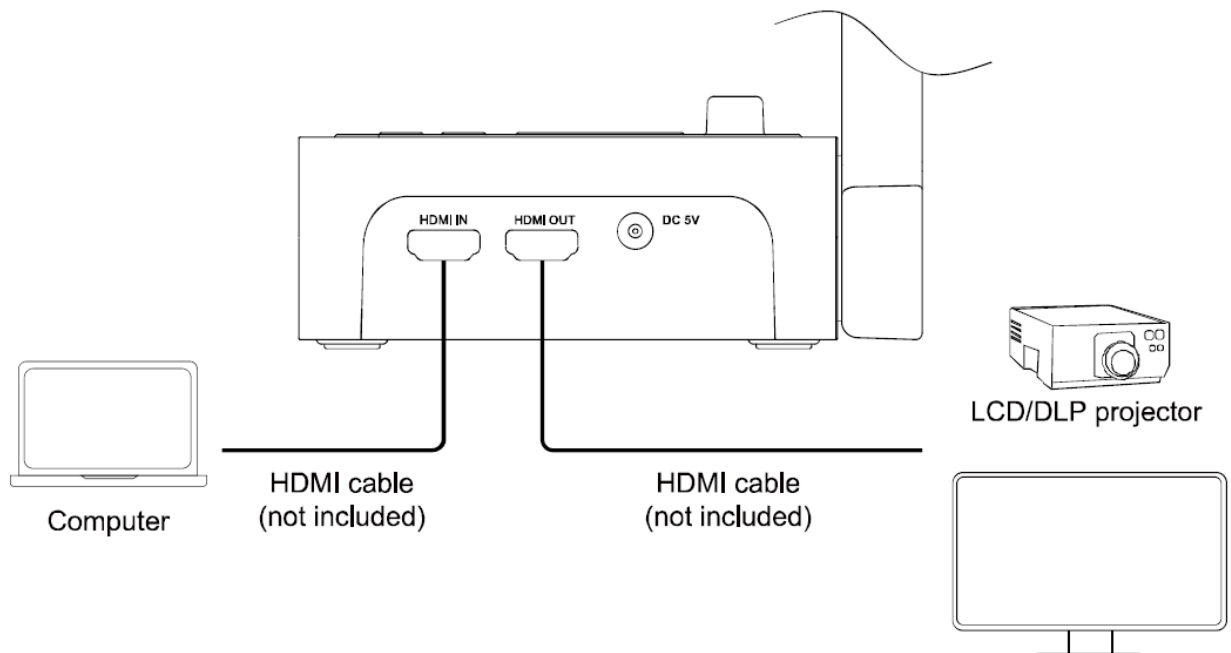


You can also plug in a USB flash drive to save images and videos. Press the Capture button to capture images and the Record button to record videos.

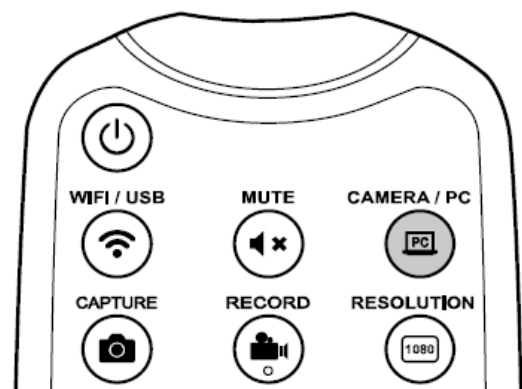
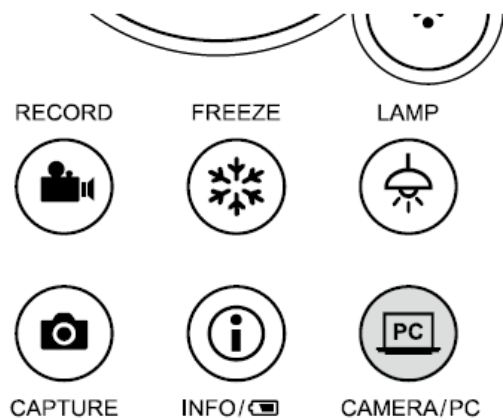


## HDMI Connection

1. By connecting a computer to the HDMI in port and a monitor or projector to the HDMI out port, images and videos from the computer can be projected.



2. Press the Camera/PC button to switch between camera input and computer input.



## Peer-to-Peer (P2P) Connection via Wi-Fi Dongle (Windows only)

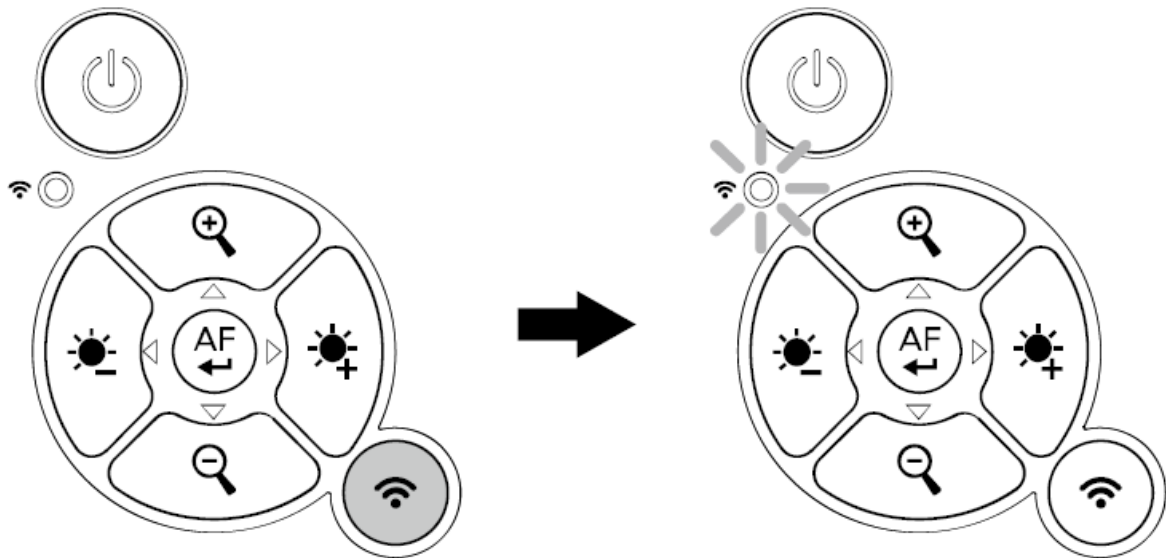
### Method 1

1. Download and install AVerTouch software to your computer from AVer Download Center.

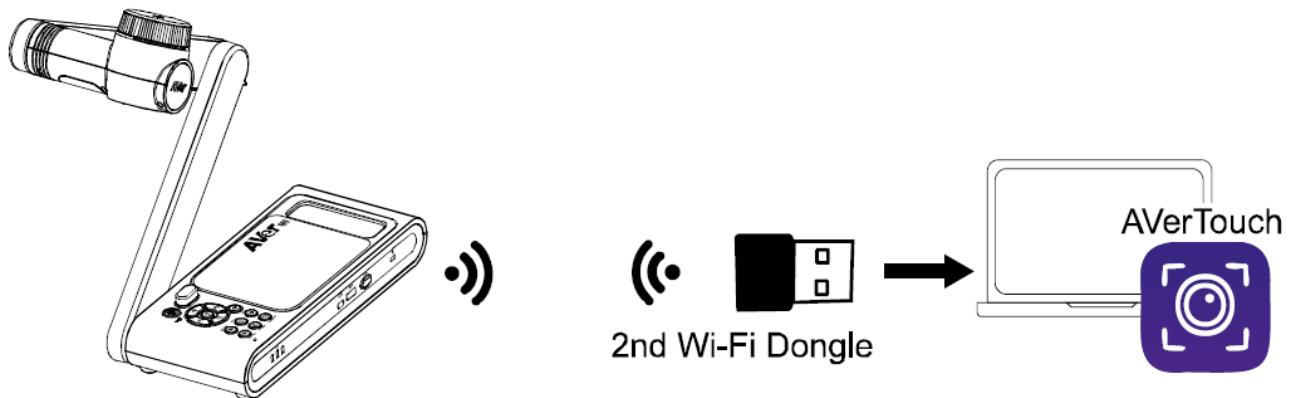
(<https://www.aver.com/download-center>).

- Do not connect your camera to a computer with the included USB cable.

2. Press the Wi-Fi button to turn on Wi-Fi mode. The Wi-Fi indicator will be solid blue.



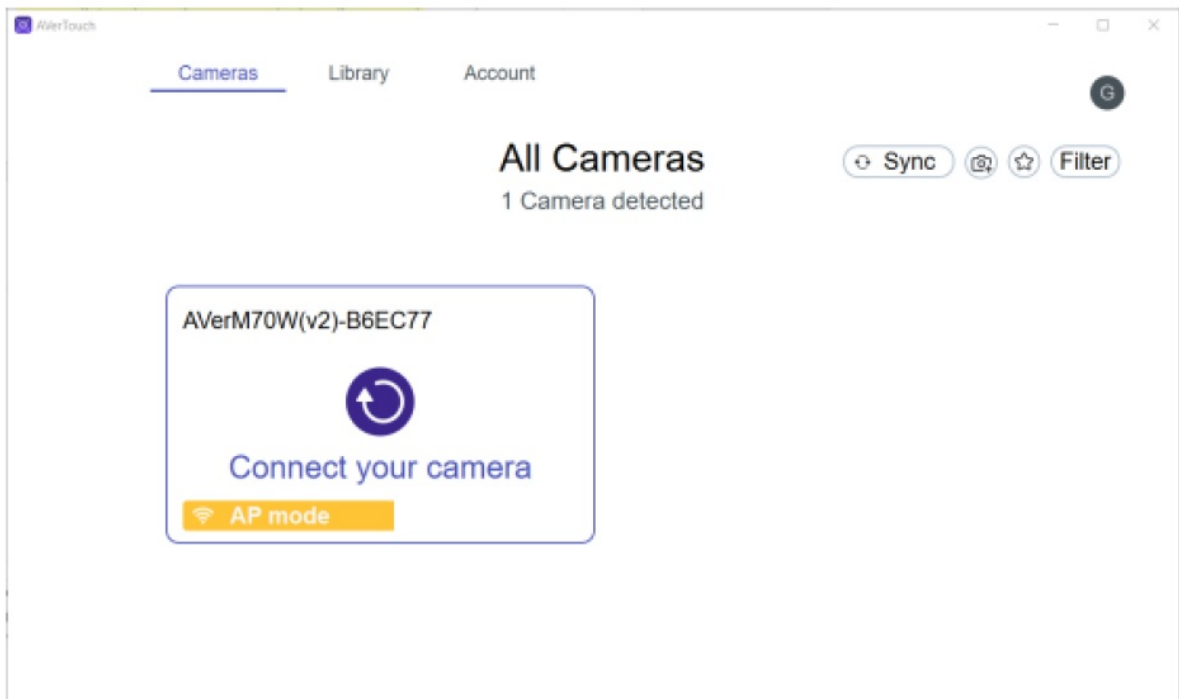
3. Plug in the second Wi-Fi dongle to your computer.




Your camera comes with 2 Wi-Fi dongles, one pre-installed in the camera. If you don't find a second dongle, it may be an optional accessory in your region or country. Contact your local reseller.

4. Open AVerTouch.

- A white camera card will appear when your camera is detected.
- Your camera name is "AVer model name – Wi-Fi dongle MAC address". Find the MAC address on the bottom of your camera.



5. Click the Connect icon  to connect your camera. When prompted, click Done.  
If an IP conflict error message appears, see <IP Conflict> to troubleshoot.

### Save Camera

Please set your camera name and password


\* Camera name

Camera passcode

Leave blank to keep default settings. You can come back and change this later if you want.

Cancel

Done

6. Camera live view will start immediately. Or click the Play icon  to start live view.



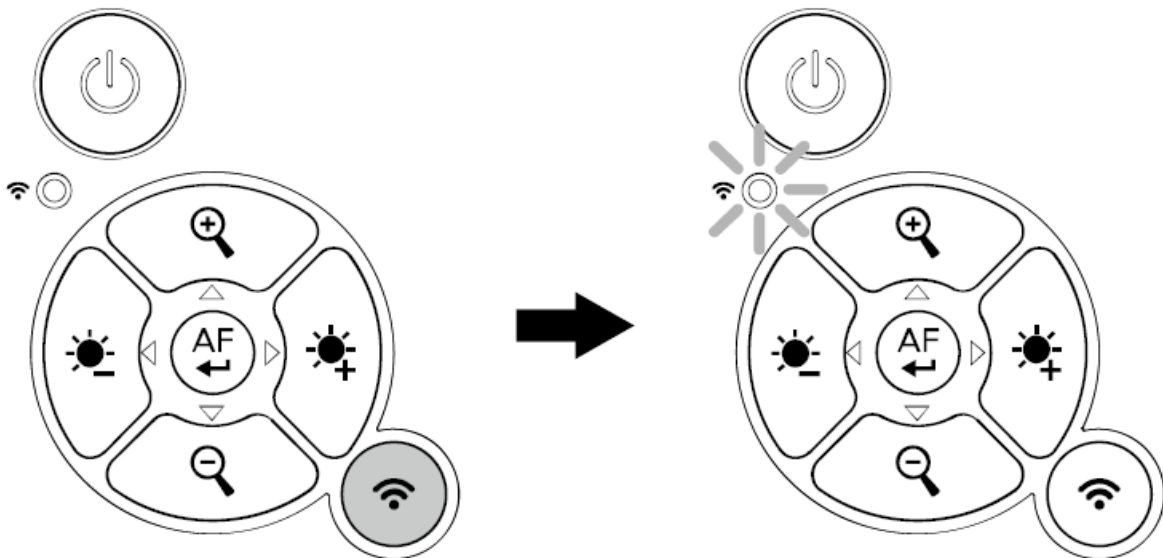
## Method 2

1. Download and install AVerTouch software to your computer from AVer Download Center.

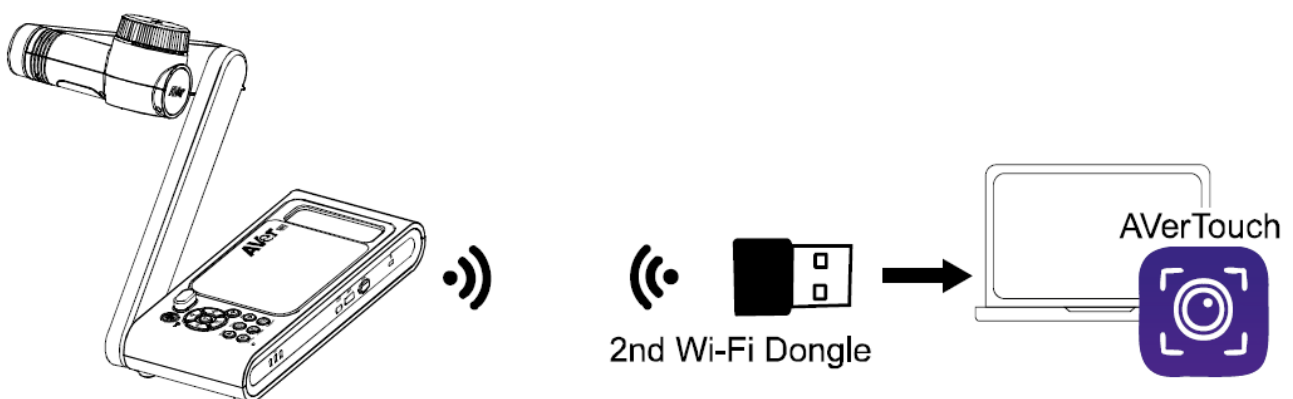
(<https://www.aver.com/download-center>).

- Do not connect your camera to a computer with the included USB cable.

2. Press the Wi-Fi button to turn on Wi-Fi mode. The Wi-Fi indicator will be solid blue.

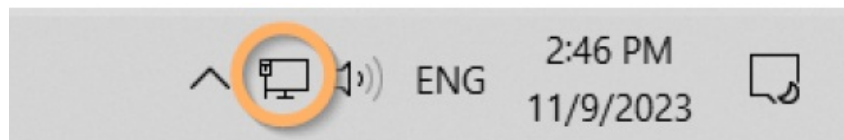


3. Plug in the second Wi-Fi dongle to your computer.



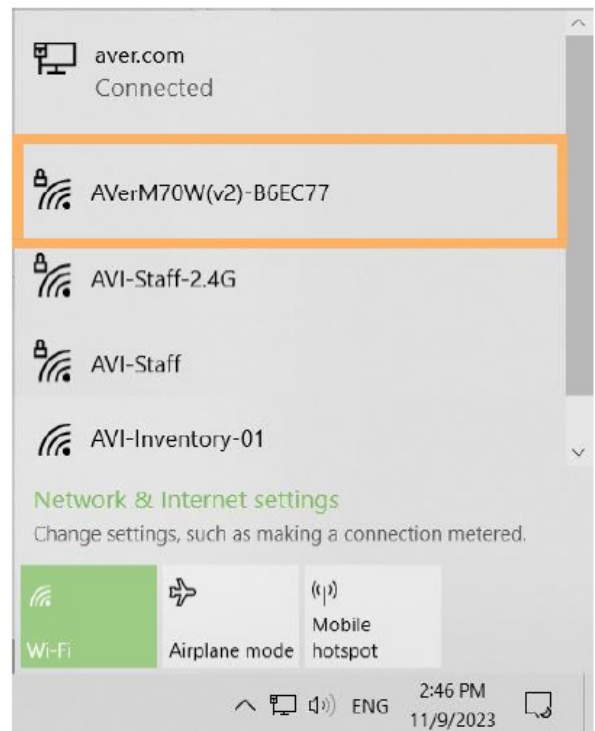
Your camera comes with 2 Wi-Fi dongles, one pre-installed in the camera. If you don't find a second dongle, it may be an optional accessory in your region or country. Contact your local reseller.

4. Select the Network icon on the taskbar. The icon that appears depends on your current connection state.
- 5.

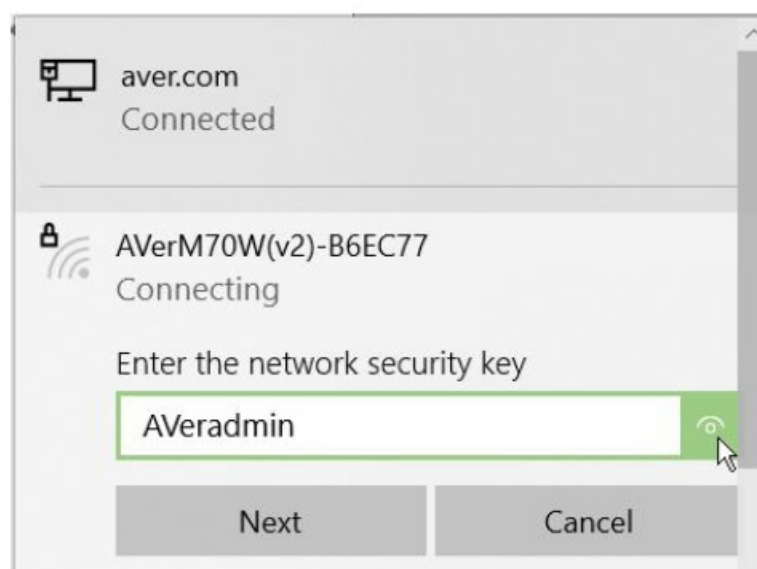


Choose your camera from the list of networks, then select Connect.


- Make sure you select the network of the Wi-Fi dongle. If your computer has built-in Wi-Fi or you are also using other non-AVer Wi-Fi dongles, you may see a drop-down list (Wi-Fi 2, Wi-Fi 3 and so on).
- Your camera name is “AVer model name – Wi-Fi dongle MAC address”. Find the MAC address on the bottom of your camera.

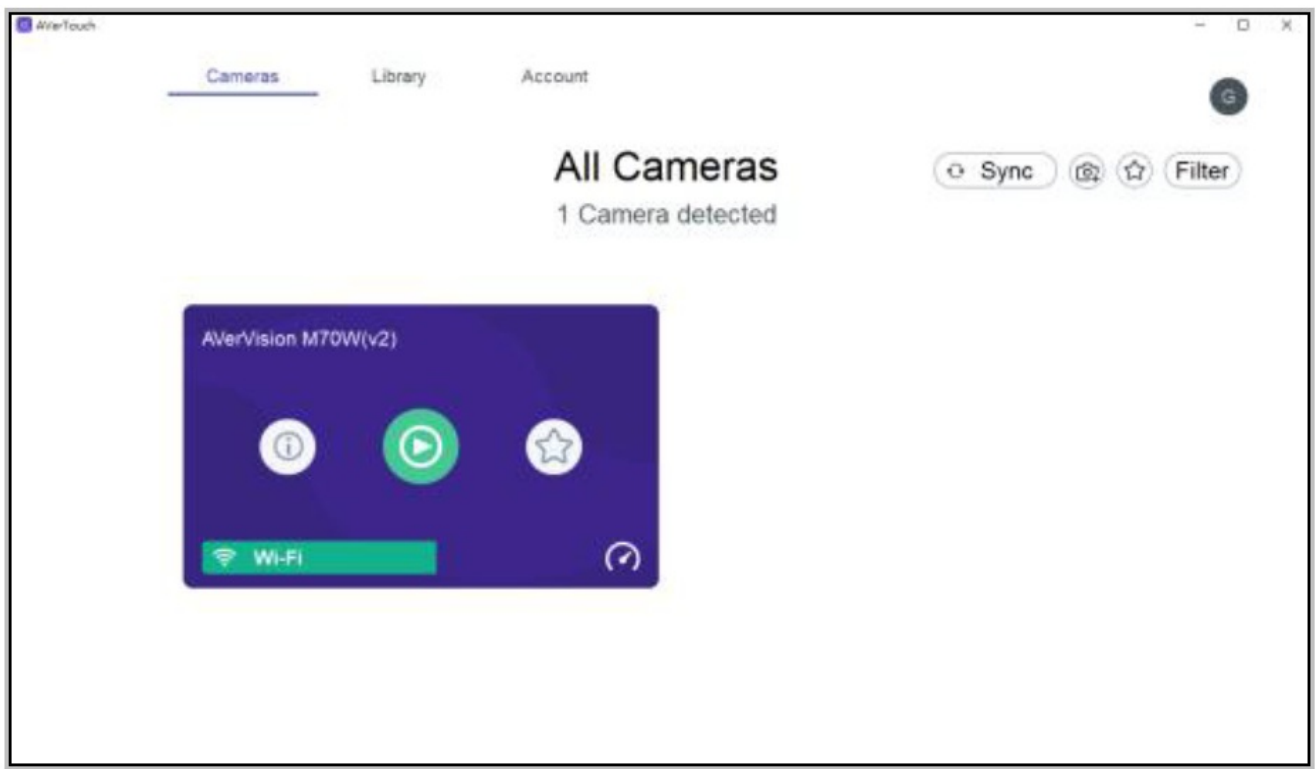


6. Enter the network password AVeradmin, then select Next.





7. Select Yes to allow your computer to be discoverable.

8. Open AVerTouch. A purple camera card will appear when your camera is detected. Click the Play icon  to start live view.



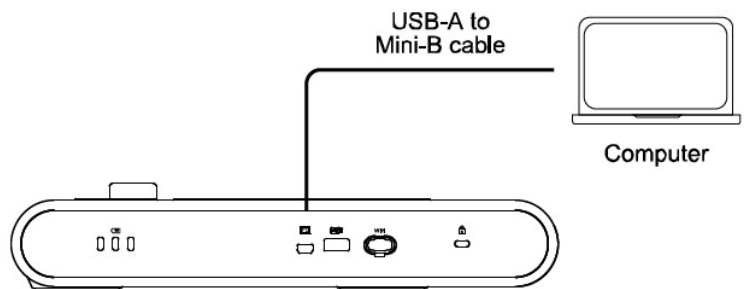
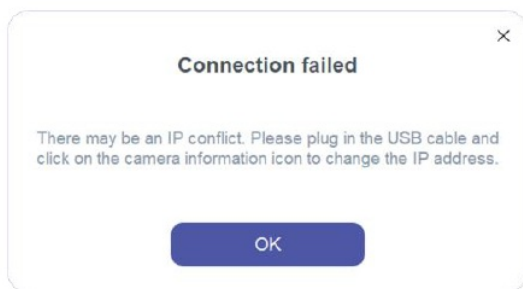
## Troubleshooting Peer-to-Peer (P2P) Connection

Your camera remembers the connection setting last time you connected it wirelessly. If you are changing connection method, such as from Peer-to-Peer (P2P) to Wi-Fi, press the factory reset compound key

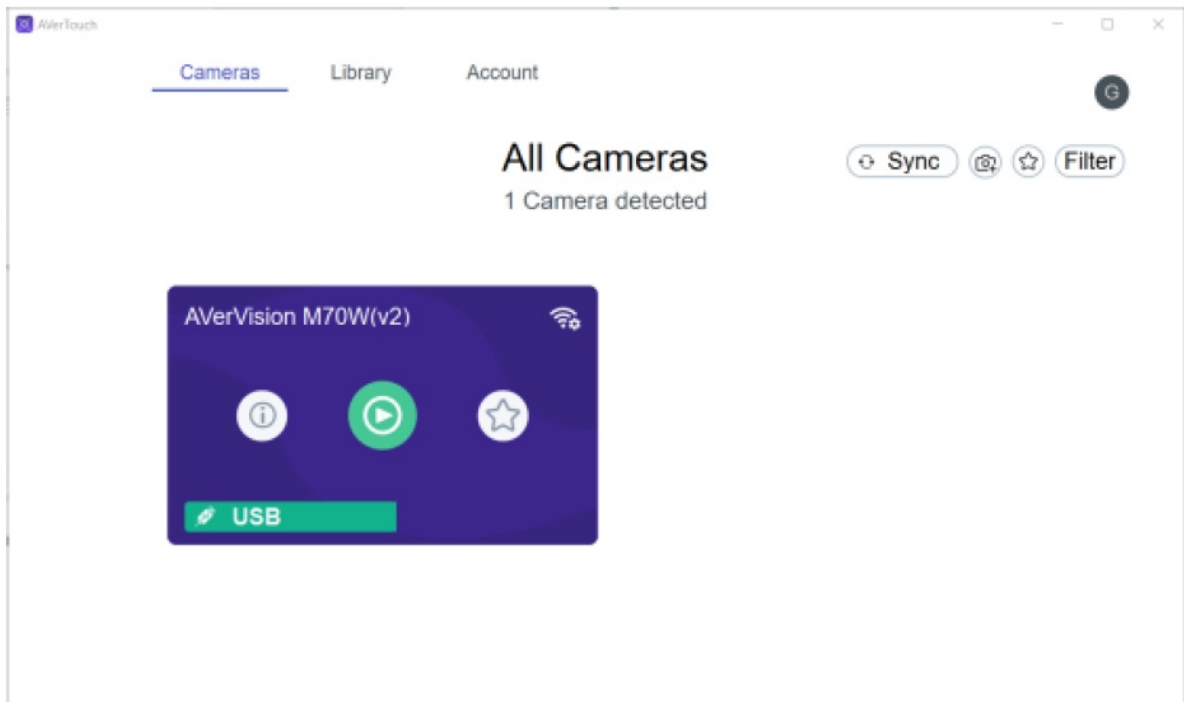
 +  to clear previous frequency band setting.

## IP Conflict

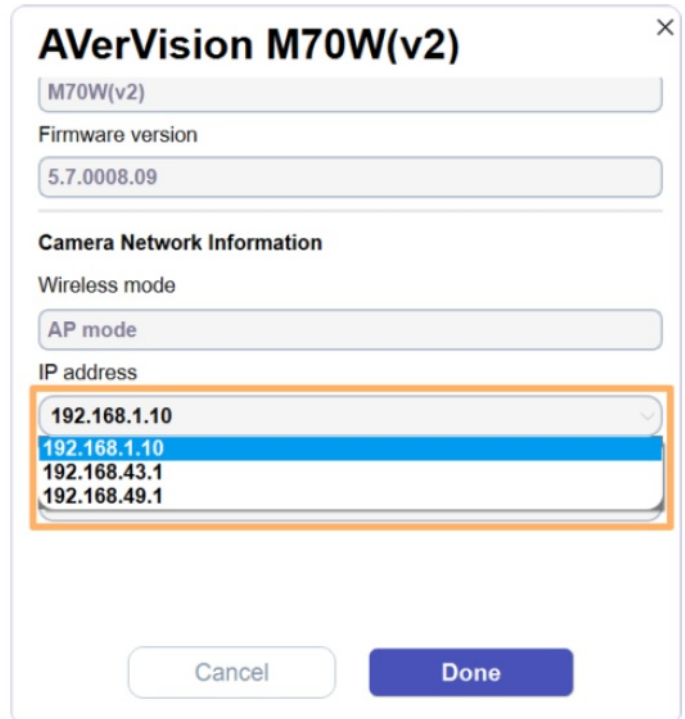
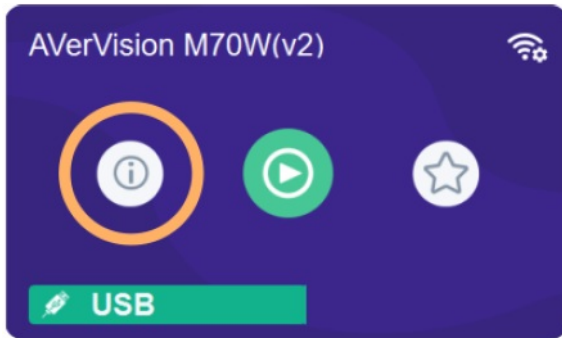
1. Connect your camera to the computer using the included USB cable.



2. Open AVerTouch.
  - A purple camera card (USB mode) will appear when your camera is detected.

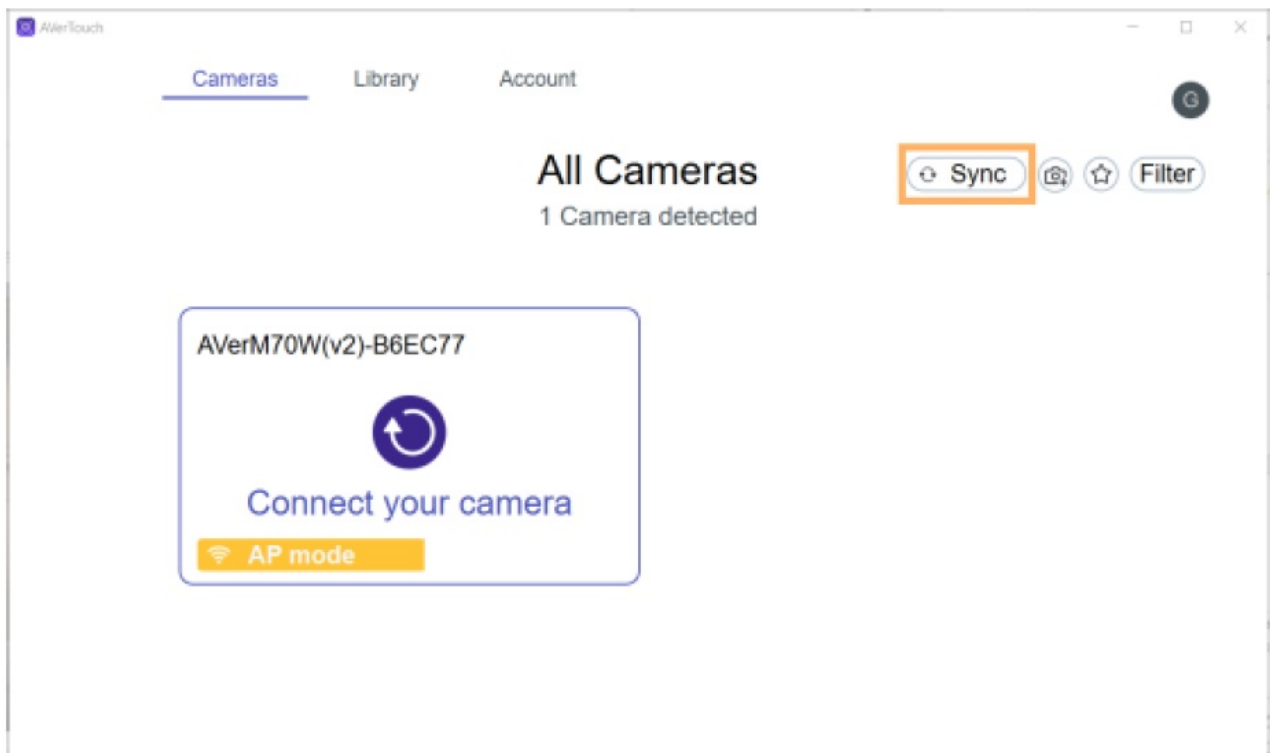


- Click the Camera information icon. Choose a different IP address from the IP address drop down list. Click Done



- Unplug the USB cable. Click Sync to refresh. A white camera card will appear when your camera is detected. Go back to Step 5 in <Peer-to-Peer (P2P) Connection> to connect again.





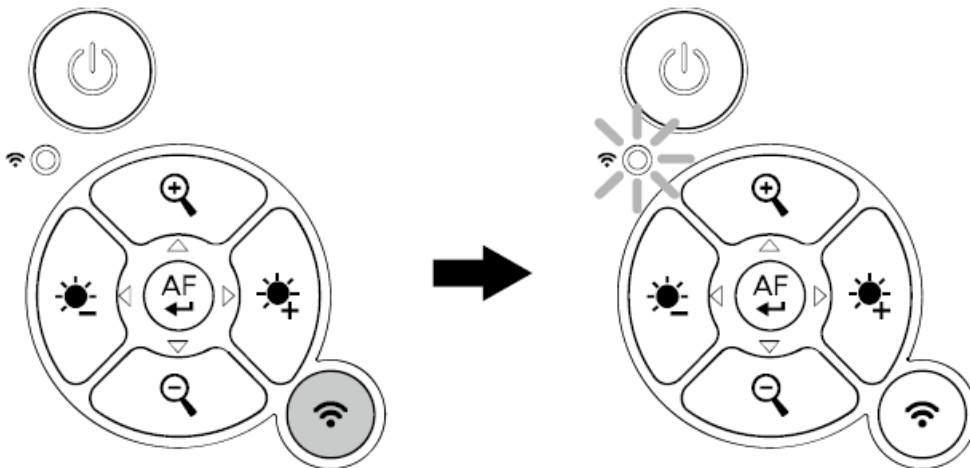
## Wi-Fi Connection

1. Download and install AVerTouch software to your computer from AVer Download Center.

(<https://www.aver.com/download-center>).

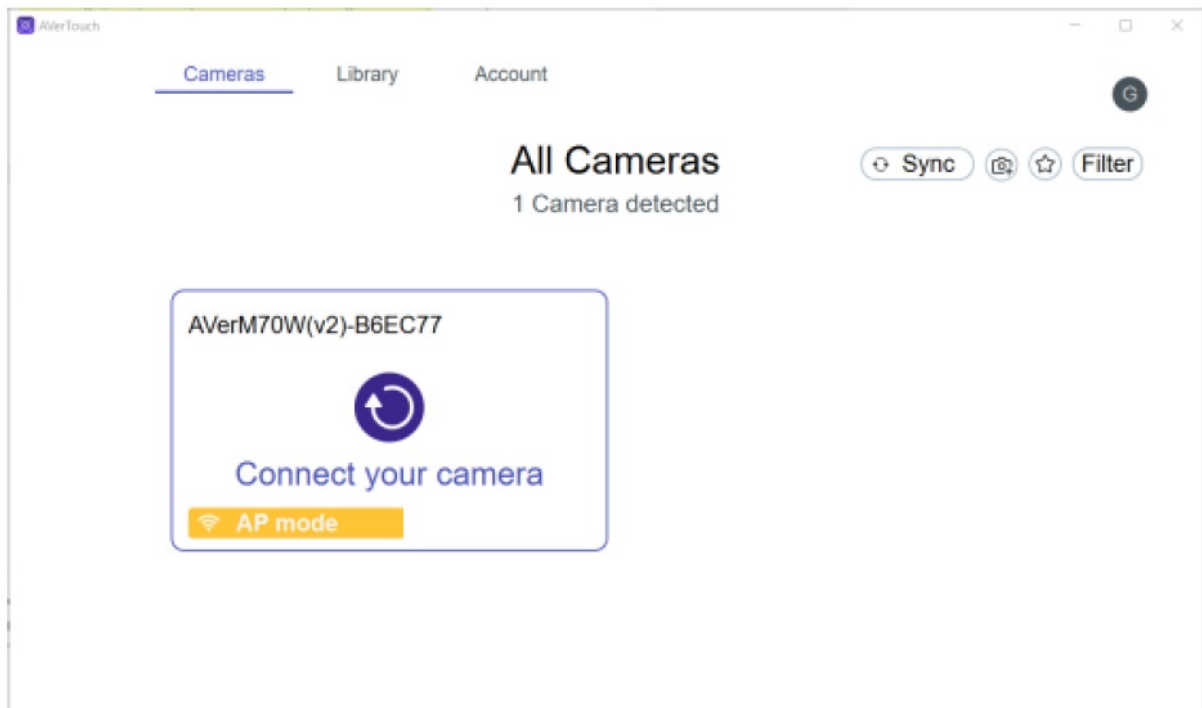
- Make sure your computer has Wi-Fi.
- Do not plug in the second Wi-Fi dongle to your computer.
- Do not connect your camera to a computer with the included USB cable.

2. Press the Wi-Fi button to turn on Wi-Fi mode. The Wi-Fi indicator will be solid blue.



3. Open AVerTouch.

- A white camera card will appear when your camera is detected.
- Your camera name is "AVer model name – Wi-Fi dongle MAC address". Find the MAC address on the bottom of your camera.



4. Click the Connect icon  to connect your camera.

Choose Router from the Connection mode drop-down list. Then choose your Wi-Fi network and enter the password. Click Done.

### Connect to a Wi-Fi network

Please select the Wi-Fi and set your camera name and password

\* Connection mode
Router

\* Select Wi-Fi network
AVI-Guest


\* Wi-Fi password
No password required for this Wi-Fi

\* Camera name
AVerVision M70W(v2)

Camera passcode
Camera passcode (optional)

Leave blank to keep default settings. You can come back and change this later if you want.

Cancel
Done

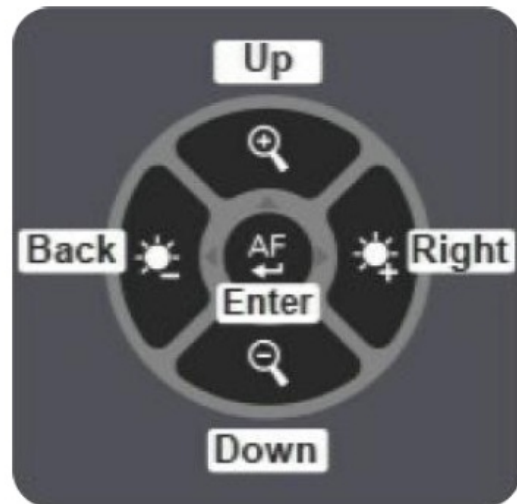
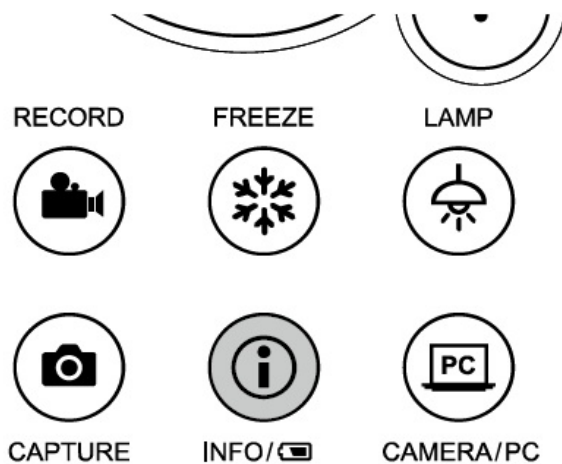
5. Camera live view will start immediately. Or click the Play icon  to start live view.



## Miracast Connection

Your display device must support Miracast. If the display device does not support Miracast, you can use a Miracast wireless display adapter that connects to an HDMI port on your device.

1. Press the Info button  to open the on-screen display menu.



2. Go to Wireless > Mode > Miracast to turn on Miracast mode.

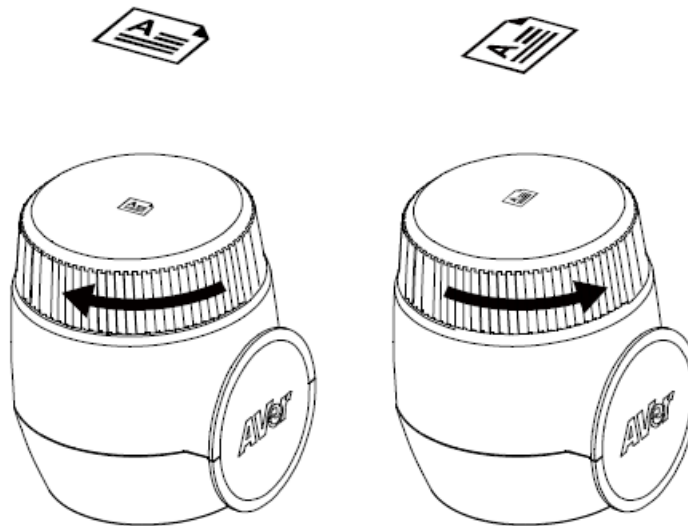
IMAGE	Mode	AP
WIRELESS	Miracast Setup	Wi-Fi
SYSTEM		Miracast ✓

3. Go back to Miracast Setup to select your display device.

IMAGE	Mode	[LG] webOS TV UK6...
WIRELESS	Miracast Setup	BRAVIA KDL-42W700B
SYSTEM		BRAVIA KDL-42W700B
		MD-20_BFAA0093
		-

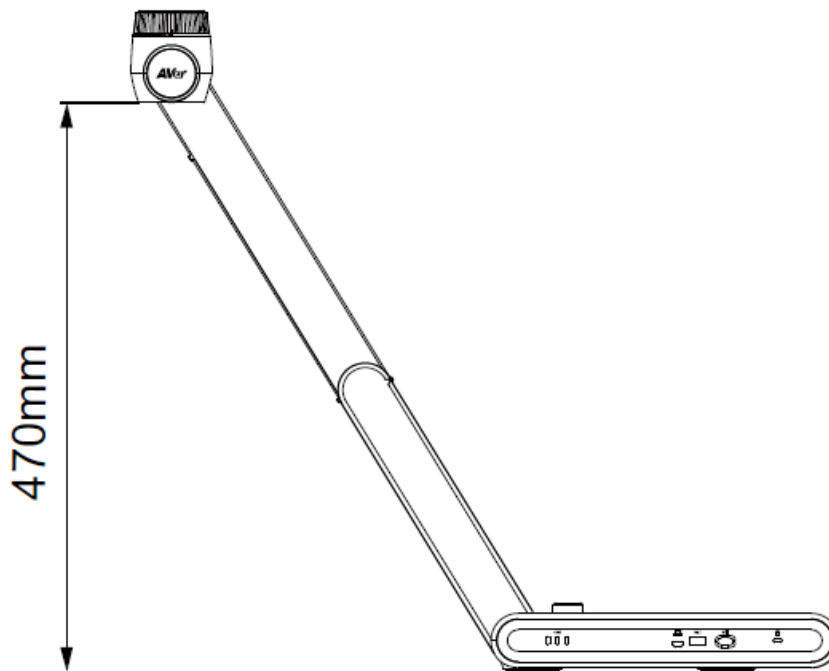
## Using the Camera

## Orientation Ring



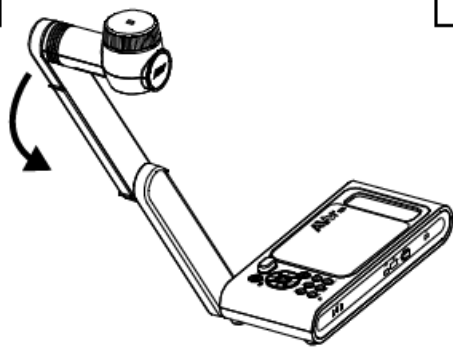
## Shooting Area

When camera position is 470mm high, the shooting area will be A3 size.



## Store the Camera

1



2



3

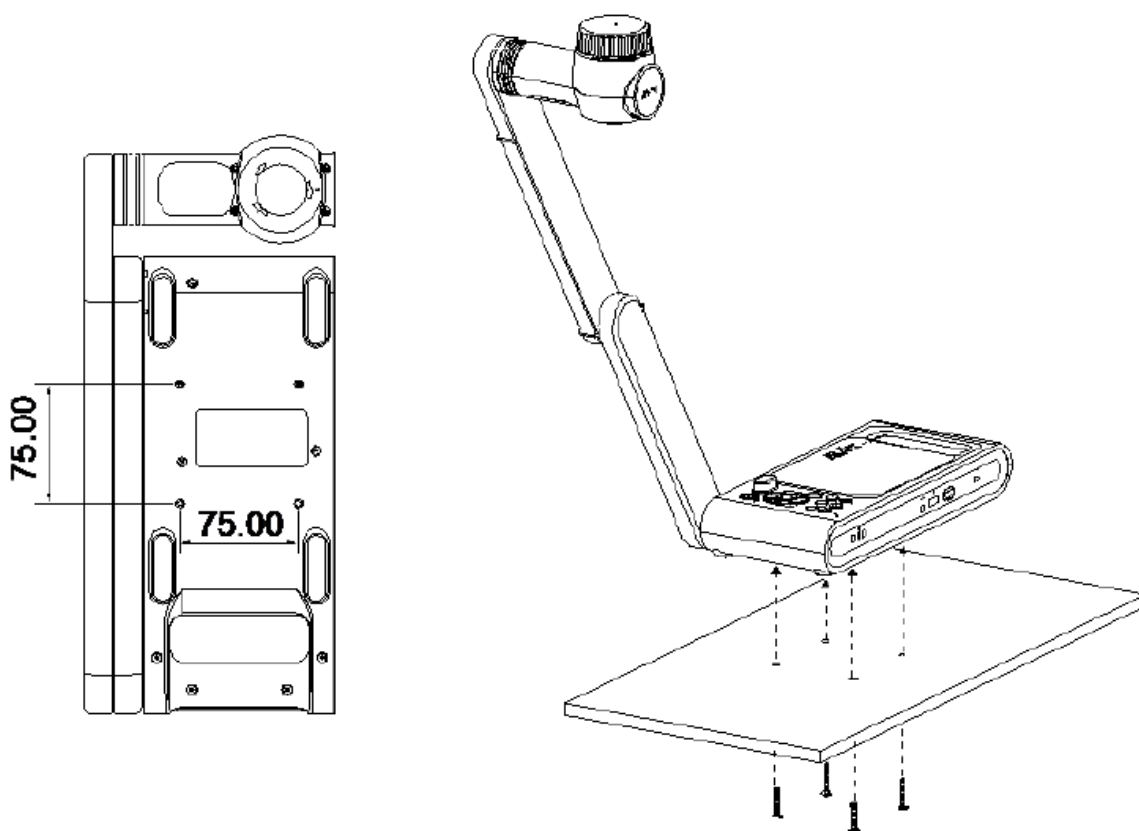


4



### Mount the Camera on a Flat Surface

[Note] M4 screw x4, depth is 5mm



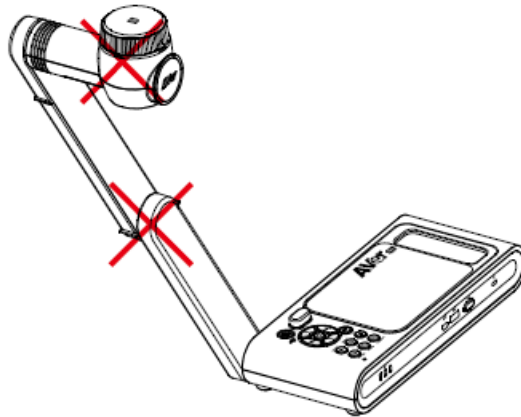
### Specifications

Sensor	1/3.2 CMOS
Pixel Count	13 megapixels
Frame Rate	60 fps (max.)
Image mode	Normal / High Frame / High Quality/ Microscope/Infinity/Marco
Effect	Rotate / Freeze
HDMI Output	4K; 1080p 60Hz; 720p 60Hz
Focusing	Auto / Manual/ Area (SW)
Shooting Area	480mm x345mm @ 470 mm
Zooming	Total 33X maximum(10x AVerZOOM™ + 23X Digital zoom)
Dual Mode	AP / Station DHCP(Server/Client)
Wi-Fi Streaming	1080P@30fps, up to 4K@30fps
Dual Band	5GHz/2.4GHz
Miracast	Yes
Compatibility	802.11a/b/g/n/ac (45 ft effective range)
Wireless Security	Support WEP, WPA/WPA2-PSK, WPA/WPA2-Enterprise* *EAP-PEAP, EAP-TLS
Power Source	DC5V/3A, AC 100-240V
Consumption	13.7 Watts(lamp on) 12.7 Watts(lamp off)
Lamp Type	LED light
USB	USB2.0 Type-A x2 (Wi-Fi Dongle, USB storage) USB Type mini-B x 1
DC 5V Input	Power Jack
MIC	Built-in
Operating	587mm(L)*159 mm(W)*546mm(H) (+/-2mm include rubber foot)
Folded	363.5mm(L)*159mm(W)*76.3mm(H) (+/-2mm include rubber foot)
Weight	2.6 kg (about 5.7lbs)
Software Supported	ePTZ Image/ Area capture Picture by Picture Timer Cloud library Recording Annotation

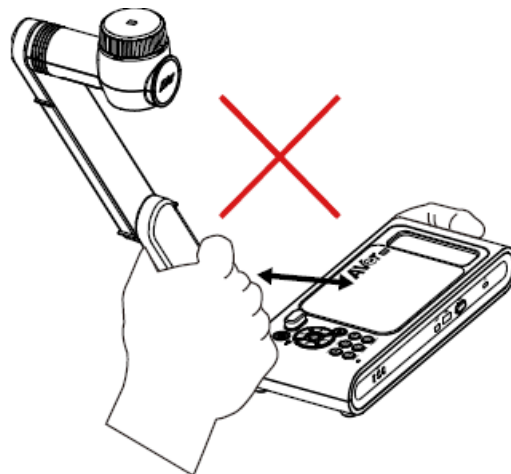
## Warning

- To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture. Warranty will be void if any unauthorized modifications are done to the product.
- Do not drop the camera or subject it to physical shock.

- Use the correct power supply voltage to avoid the damaging camera.
- Do not place the camera where the cord can be stepped on as this may result in fraying or damage to the lead or the plug.
- Hold the bottom of the camera with both hands to move the camera. Do not grab the lens or Flexible arm to move the camera.



- Do not pull the mechanical arm and camera part in the opposite direction.



### Radio Frequency

#### **FOR PORTABLE DEVICE USAGE (<20m from body/SAR needed eg. BT dongle, smartphone) Radiation Exposure Statement:**

The product comply with the FCC portable RF exposure limit set forth for an uncontrolled environment and are safe for intended operation as described in this manual. The further RF exposure reduction can be achieved if the product can be kept as far as possible from the user body or set the device to lower output power if such function is available.

#### **FOR MOBILE DEVICE USAGE (>20cm/low power eg. AP routers)**

##### **Radiation Exposure Statement:**

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

### Europe – EU Declaration of Conformity

This device complies with the essential requirements of the Radio Equipment Directive (2014/53/EU). The following test methods have been applied in order to prove presumption of conformity with the essential requirements of the Radio Equipment Directive (2014/53/EU)

### Warning

This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

### **Caution**

Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries in a safe and proper manner.

### **DISCLAIMER**

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**Documents / Resources**

	<a href="#">Aver M70Wv2 Mechanical Arm Wireless Visualizer</a> [pdf] Instruction Manual M70Wv2 Mechanical Arm Wireless Visualizer, M70Wv2, Mechanical Arm Wireless Visualizer, Arm Wireless Visualizer, Wireless Visualizer, Visualizer
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