

muvi™

User Manual

KX-1

NPNG



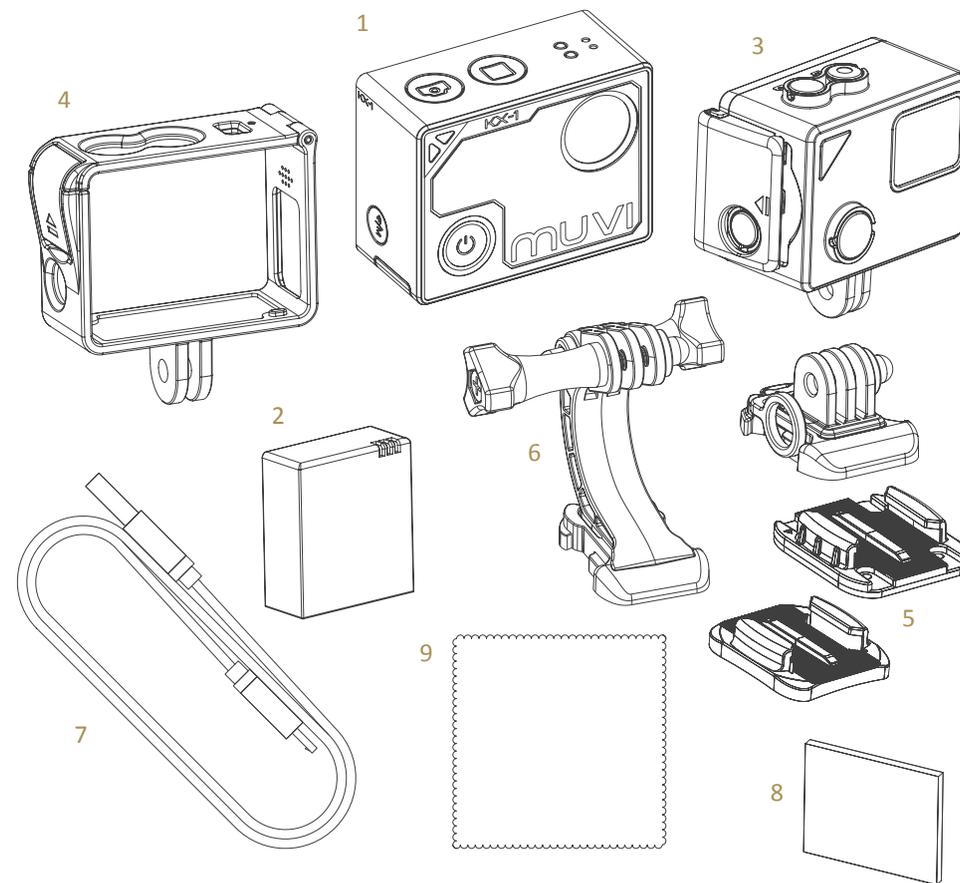
VCC-008-KX1-NPNG

veho®

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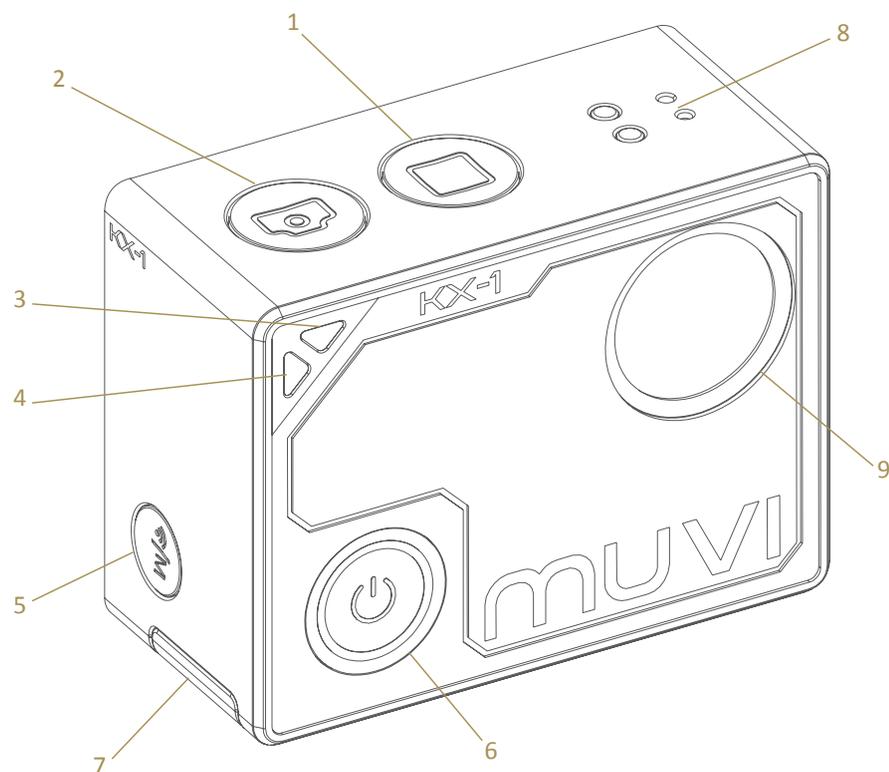
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## 1. What's in the box?

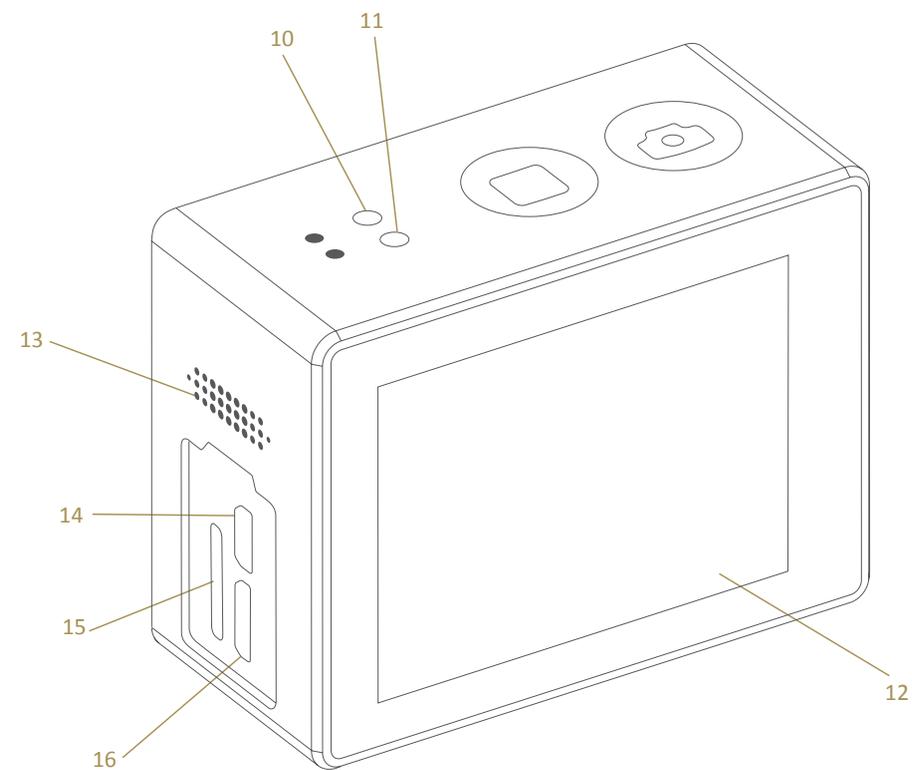


- |                                  |                     |
|----------------------------------|---------------------|
| 1. KX-1 NPNG Camera              | 7. USB cable        |
| 2. Battery                       | 8. Anti-fog inserts |
| 3. Waterproof case               | 9. Lens cloth       |
| 4. Quick release frame           | 10. Decals          |
| 5. Curved & flat adhesive mounts | 11. microSD card    |
| 6. Helmet Mount                  | 12. User manual     |

## 2. Guide to controls



- |                                   |                               |
|-----------------------------------|-------------------------------|
| 1. Stop Recording Button          | 6. Power Button/Record Button |
| 2. Shutter Button                 | 7. Battery Cover              |
| 3. Green Indicator Light (L1)     | 8. Microphone                 |
| 4. Blue WiFi Indicator Light (L2) | 9. Wide Angle Lens            |
| 5. WiFi Button                    |                               |



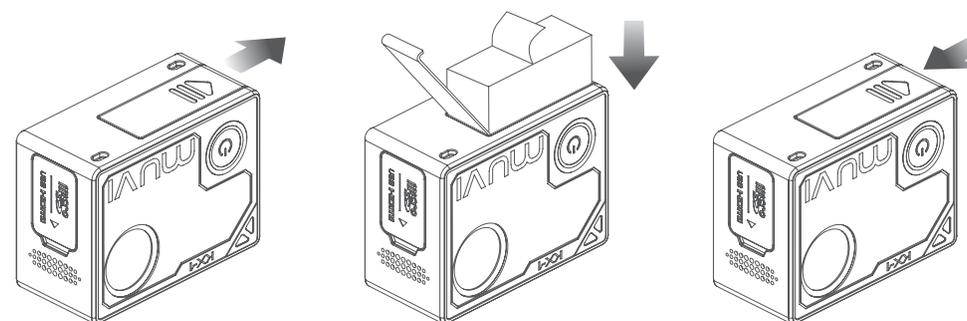
- |                                |                       |
|--------------------------------|-----------------------|
| 10. Green Indicator Light (L1) | 14. Micro HDMI Port   |
| 11. Red Indicator Light (L3)   | 15. microSD Card Slot |
| 12. Built-in Touch LCD Screen  | 16. Micro USB Port    |
| 13. Speaker                    |                       |

### 3. Description of LED indicators

Status	Green Light (L1)	Blue Light (L2)	Red Light (L3)
Recording Video	Flashing		Solid
Recording Audio	Flashing		Solid
Taking Photo	Single Flash		Solid
microSD Card Full	Solid		Solid
WiFi On		Flashing	Solid
Charging			Flashing
Power On			Solid
Fully Charged			Solid
Low Battery			Solid
Data transmission			Solid

### 4. Installing and charging the battery

Slide the battery cover as shown, then insert the battery and close the cover.

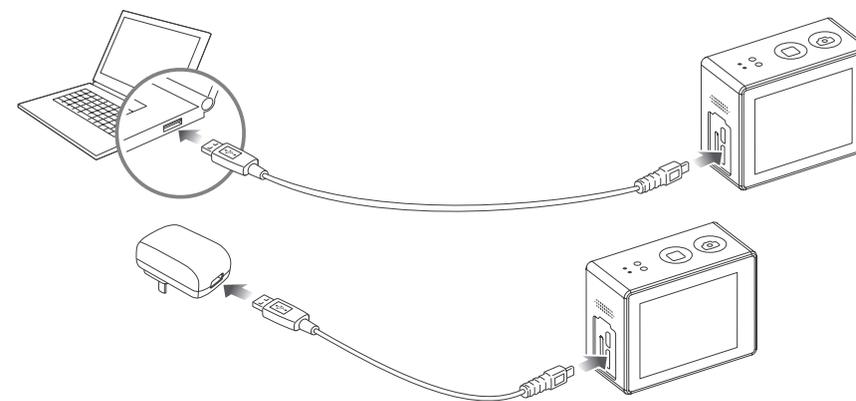


To charge your battery, connect the supplied USB cable to a computer or 5V/2A USB plug.

The **red indicator light (L3)** will flash when charging the battery. When it is fully charged, the light will remain solid.

**Battery life** - Up to 2 hours, depending on the resolution and framerate used.

**Charging time** - Up to 2 hours, depending on the charger used.



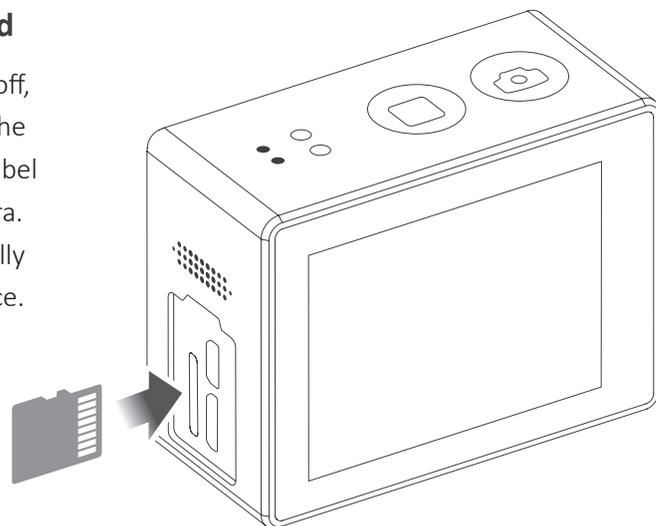
**Please note:** To prevent damage, to the battery, remove when operating the camera for long periods whilst plugged into a power source.

## 5. Getting started

### Inserting a microSD card

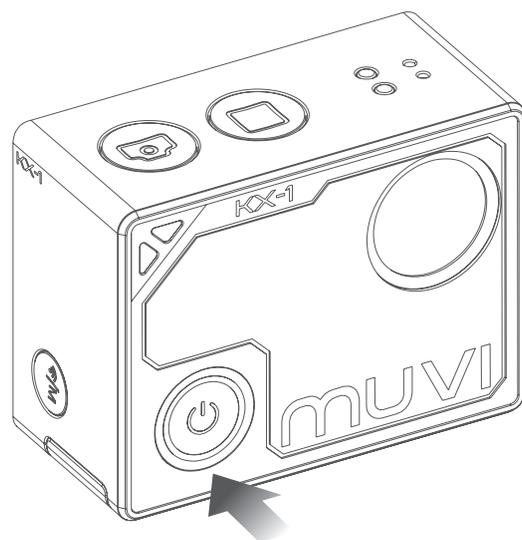
When the camera is turned off, slide the microSD card into the microSD card slot with the label facing the front of the camera. When the microSD card is fully inserted, it will click into place.

A microSD card with UHS class 3 (U3) speed is recommended.



### Turning the camera on/off

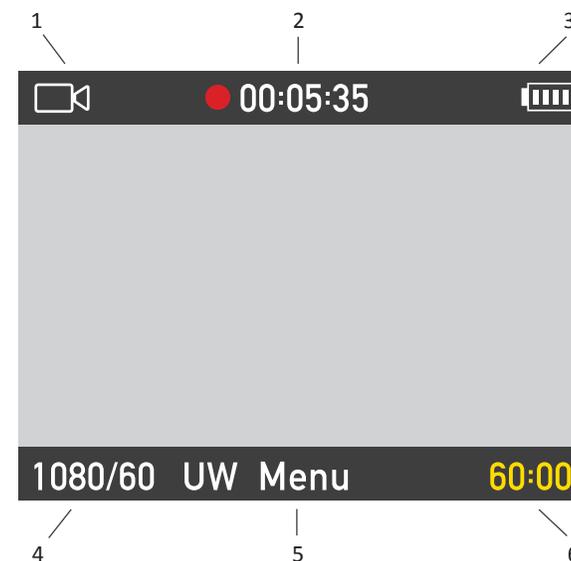
Press and hold the power/record button for roughly 3 seconds to turn the camera on or off.



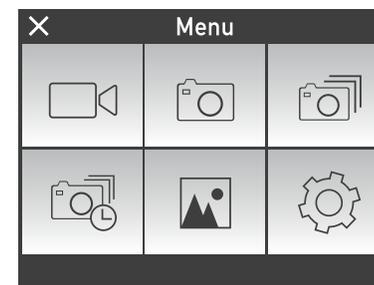
## 6. Touchscreen controls

### Default View

1. Indicates Modes Selected
2. Record Time
3. Battery Level
4. Video Resolution & Viewing Angle
5. Enter Main Menu
6. Remaining Record Time



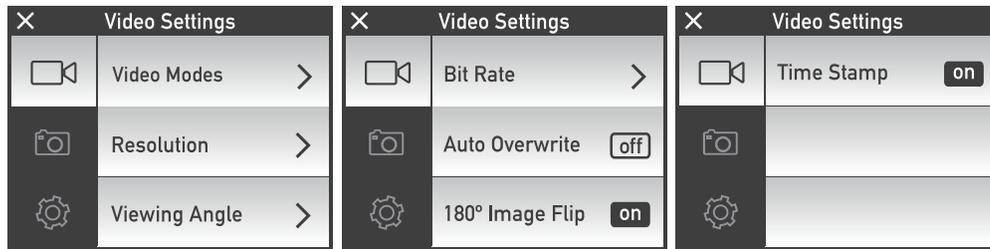
### Main Menu



Tap the "X" in the top left-hand corner to exit main menu.

	Tap the Video Icon to enter Video Mode
	Tap the Camera Icon to enter Photo Mode
	Tap the Burst Icon to enter Burst Photo Mode
	Tap the Interval Shooting Icon to enter Interval Shooting Mode
	Tap the Library Icon to view photos and videos
	Tap the Setting Icon to change settings

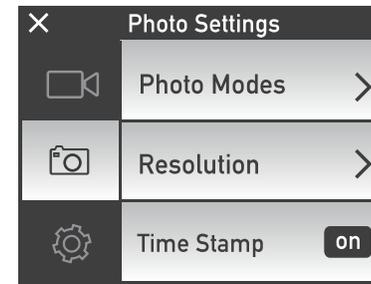
## Video Mode



Function	Description
Video Modes	<b>Record:</b> Select to record video with audio
	<b>Video Only:</b> Select to record video only
	<b>Audio Only:</b> Select to record audio only
	<b>Slow Motion:</b> Select to record a slow motion video
	<b>Interval Record:</b> Set time for Interval Record - 1s/2s/5s/10s/30s/60s. To take a sequence of frames at set intervals to record changes that take place slowly over time. (Time-lapse)
	<b>Auto Record:</b> Set time for Auto Record - 5s/10s/20s
	<b>Video + Photo:</b> Set time to take photo(s) during video recording Manual/5s/10s/30s/60s
Resolution	<b>Select Video Resolution:</b> 4k@10fps, 2.7k@15fps, 1440P@30fps, 1080P@60fps/30fps, 720P@120fps/60fps, 480p@240fps
Viewing Angle	<b>Select Viewing Angle:</b> Ultra Wide, Wide, Medium
Bit Rate	<b>Select Bit Rate:</b> High, Normal
Auto Overwrite	<b>Turn Auto Overwrite: On/Off</b> When Auto Overwrite is turned on, it will record over existing files when microSD card is full
180° Image Flip	<b>Turn Auto Image Rotation: On/Off</b> Turn Auto Image Rotation on to have the camera automatically adjust right side up when mounted upside down
Time Stamp	<b>Turn Auto Time Stamp: On/Off</b> Turn Time Stamp on to show the current day, month, year, and time in the recorded file

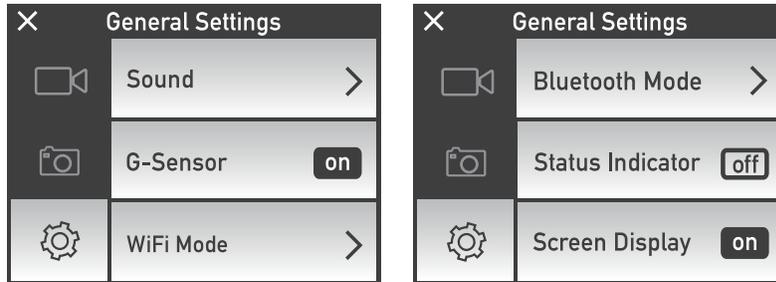
**Please note:** We recommend using the camera at 1080p/60fps for the best results.

## Photo Mode



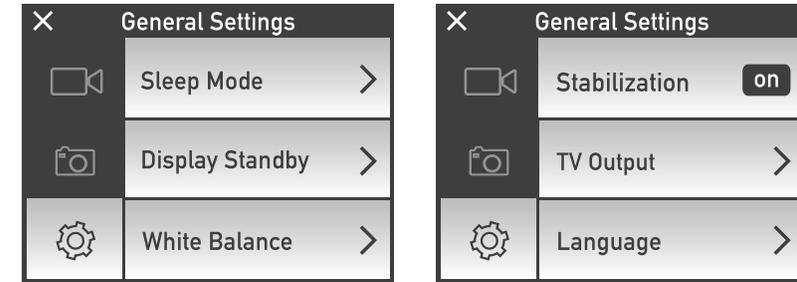
Function	Description
Photo Modes	<b>Tap Shutter:</b> If turned on, tap screen to take a picture
	<b>Burst:</b> Select Burst Mode: 3 photos/1s, 5 photos/1s, 10 photos/1s
	<b>Interval Shooting:</b> Sets Frequency for pics to be taken: 1s, 2s, 3s, 5s, 10s, 30s, 60s
Resolution	<b>Select Image Resolution:</b> 16MP (4608x3456 4:3), 12MP (4000x3000 4:3), 8MP (3200x2400 4:3)
Time Stamp	<b>Turn Time Stamp: On/Off</b> Turn Time Stamp on to show the current day, month, year, and time in the file

## Settings Mode



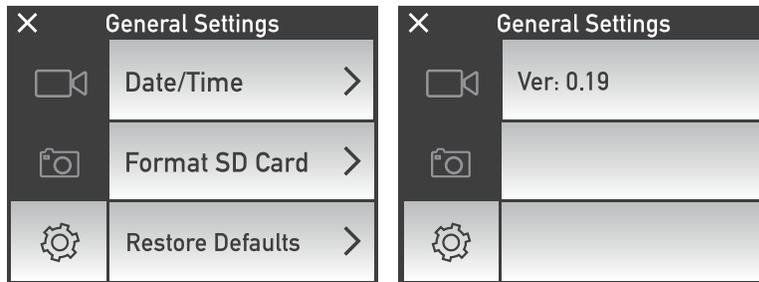
Function	Description
<b>Sound</b>	Turn Sound on to hear beeping indicators
<b>G-Sensor</b>	Turn G-Sensor on to start recording (in video mode) when camera moves. Camera will stop recording when moving stops after 3 minutes.
<b>WiFi Mode</b>	On your mobile device, turn the Wi-Fi on and download the Veho Muvi app from the Google Play or Apple Store. Press and hold the Wi-Fi Button for 3 seconds to turn on the camera Wi-Fi. Go to Wi-Fi settings on your mobile device, find and select the Muvi-KX1/2, then enter the password: VehoMuvi. Launch the Veho Muvi app and click on the Camera button in the app.
<b>Bluetooth Mode</b>	Select search mode to connect with a selfie stick
<b>Status Indicator</b>	Turn on to see camera status functions
<b>Screen Display</b>	Turn on to see Camera Mode, Record Time, Power Level, Resolution, Viewing Angle, Menu Button, and Remaining Record Time.

## Settings Mode



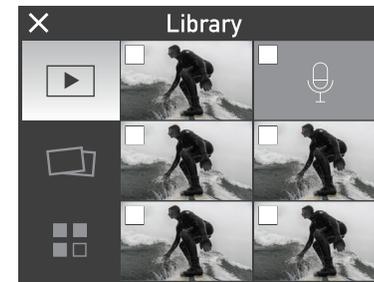
Function	Description
<b>Sleep Mode</b>	Camera will enter power-saving state when no user activity has been sensed for a certain time: Off, 2 mins, 5 mins, 10 mins.
<b>White Balance</b>	Select the appropriate setting according to the lighting conditions of the application scenario.
<b>Stabilization</b>	Digital image stabilization: on/off
<b>Display Standby</b>	Display will be automatically turned off when no user activity has been sensed for a certain time: Off, 10 secs, 30 secs, 60 secs.
<b>TV Output</b>	Select PAL or NTSC
<b>Language</b>	Select Traditional Chinese, English (default), German, French, Italian, Spanish, Portuguese, Dutch, Turkish, Russian, Hungarian, Danish, Finnish, Norwegian, Sweden, Greek, Polish, Czech.

## Settings Mode



Function	Description
<b>Date/Time</b>	Select Date & Time format: M/D/Y H:M, D/M/Y H:M, Y/M/D H:M
<b>Format SD Card</b>	Confirm to delete all files on microSD card
<b>Restore Defaults</b>	Confirm to Restore Factory Settings
<b>Version</b>	Displays software version

## Library



-  Displays all video & audio files
-  Displays all photo files
-  Displays all video, audio & photo files



Tap the "X" in the top left-hand corner to exit the library.

Tap on thumbnail to open any file.

Click on the square on the top left-hand corner of the thumbnail to select each file.

After selecting 1 or more files, three yellow option squares (■■■) appear in the top right-hand corner.

Tap on the three yellow option squares (■■■) to delete and lock the files selected.

## 8. Viewing and transferring files

### Copying files to a computer

1. Connect the Micro USB cable to the camera and a computer, with the microSD card in the camera.
2. Turn the camera on.
3. Go to “My Computer”/“This PC” on Windows or the desktop on Mac OS.
4. Open the SD card folder and copy the files to your computer.

### Viewing Photos and Videos on a TV

To playback photos/videos on a TV, check the Muvi is set to the correct mode (PAL/NTSC) and then enter playback mode on the camera. Then connect a HDMI cable to the camera from the TV.

## 9. Using the Wi-Fi app.

1. On your mobile device, turn the Wi-Fi on and download the Veho Muvi app from the Google Play or Apple Store.
2. Press and hold the Wi-Fi Button for 3 seconds to turn on the camera Wi-Fi.
3. Go to Wi-Fi settings on your mobile device, find and select the Muvi KX-1/KX-2, then enter the **password: VehoMuvi**.
4. Launch the Veho Muvi and click on the Camera button in the app.

**Please note:** The G-Sensor and Wi-Fi cannot be enabled simultaneously.



# 10. Specifications

## Camera

<b>Lens Angle</b>	140°
<b>Aperture</b>	2.5f
<b>Screen</b>	1.8" Touchscreen integrated

## Video

<b>Video Resolution</b>	4k@10fps, 2.7k@15fps, 1440P@30fps, 1080P@60fps/30fps, 720P@120fps/60fps, 480p@240fps
<b>Video Mode</b>	Record, Video Only, Audio Only, Slow Motion, Interval Record, Auto Record, Video + Photo
<b>Auto Record</b>	5s, 10s, 20s
<b>Self Timer</b>	2s, 3s, 5s, 10s
<b>Interval Record</b>	1s, 2s, 5s, 10s, 30s, 60s

## Photo

<b>Photo Resolution</b>	16MP, 12MP, 8MP
<b>Photo Mode</b>	Tap Shutter, Burst, Self Timer, Interval Shooting
<b>Burst Mode</b>	3 photos/1s, 5 photos/1s, 10 photos/1s
<b>Photo &amp; Video</b>	5s, 10s, 30s, 60s or Manual
<b>Self Timer</b>	2s, 3s, 5s, 10s
<b>Interval Shooting</b>	1s, 2s, 3s, 5s, 10s, 30s, 60s

## Power & Battery

<b>Battery</b>	1050mAh
<b>Battery Life</b>	Up to 2 hours, depending on the resolution and framerate used
<b>Charging Time</b>	Up to 2 hours, depending on the charger used

## Other

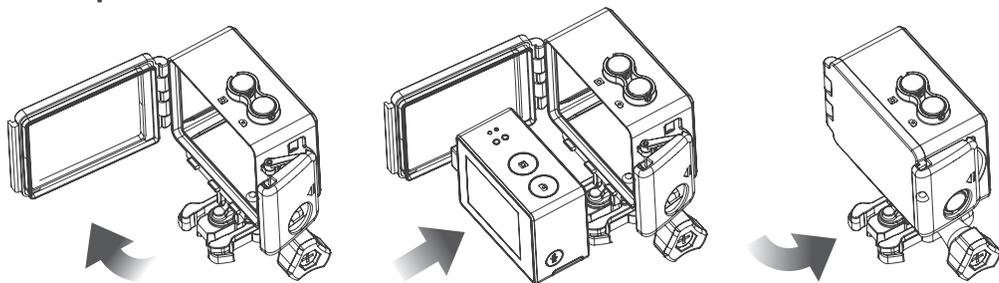
<b>Interface</b>	Micro USB, Micro HDMI, microSD
<b>Memory</b>	microSD card (up to 64GB)
<b>Operating Temperature</b>	0°C to 60°C
<b>Storage Temperature</b>	-20°C to 60°C
<b>Weight</b>	67g
<b>Dimension</b>	52mm x 26mm x 40mm

## Functions

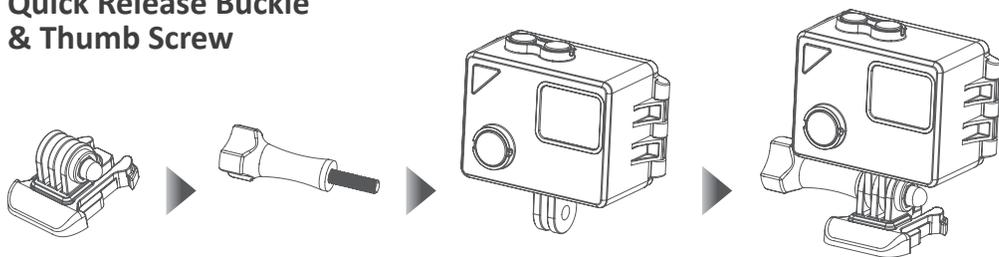
<b>Other Functions</b>	Built-In WiFi, Built-In Bluetooth, 4x Digital Zoom, Video Loop, Auto Record, 180° Image Flip, Sleep Mode (2min, 5min, 10min)
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## 11. Accessories

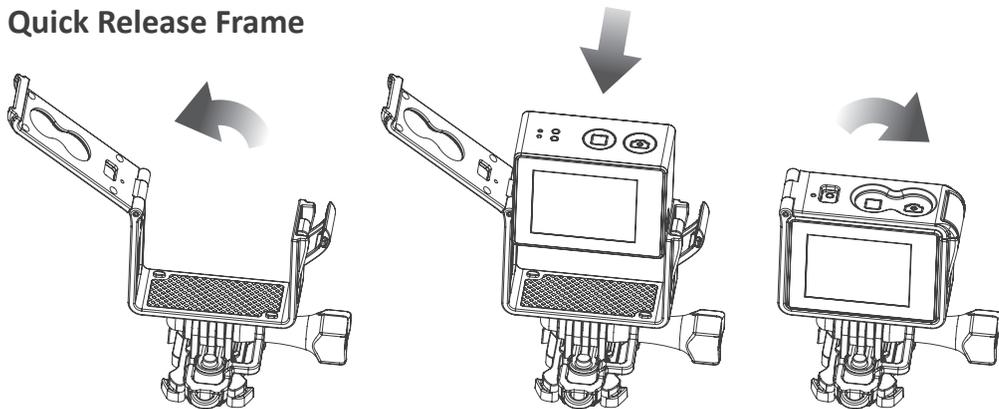
### Waterproof Case



### Quick Release Buckle & Thumb Screw



### Quick Release Frame



## 12. Camera maintenance tips

- Please charge the battery every 3 months to maintain battery life.
- To view or upload videos/images at the best quality, copy the files to your computer first.
- If your video files are corrupt, try reformatting the microSD card with the camera. To do this, go into the settings mode, locate the format SD card option and press confirm.
- It is normal for the camera to become warm during use, the camera will turn off automatically if it overheats.
- Turn off the camera before inserting the microSD card.
- While it is possible to use the camera while the battery is charging, you run the risk of shortening the battery life and damaging it.

# Other Veho Products



**Muvi Chest Harness Mount**  
VCC-A016-HSM

**Pebble Endurance 15,000mAh  
Portable Power Bank**  
VPP-008-E



**Muvi Universal Pole/Bar Mount**  
VCC-A017-UPM



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