

# User manual

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## PRODUCT SPECIFICATION

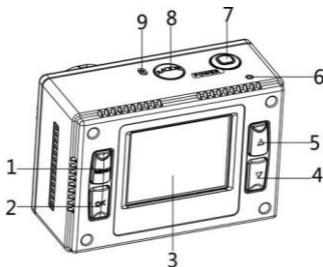
- 5MP CMOS sensor
- Wi-Fi Module for wireless streaming to Smartphone
- Free App available from Google Play or iTunes
- Video Resolution: 1080P (1920x1080,30 fps), 720P (1280x720,30 fps), 720P (1280x720,60 fps)
- Still Image Resolution: 12MP, 8MP, 5MP, 3MP, 2MP, VGA
- Wide angle lens
- Waterproof to 45m with Case
- 1.5" Preview Screen
- Expandable Micro SD Slot up to 32GB
- High-speed USB 2.0 interface
- Built-in rechargeable lithium battery
- Operation Temperature: -10°C to 40°C
- Storage Temperature: 15°C to 35°C

- Works with Windows 8, 7, Vista and XP, Mac 10.2 above

NOTE: As a result of continual improvements, the design and specifications of the product within may differ slightly from the unit illustrated on the packaging.

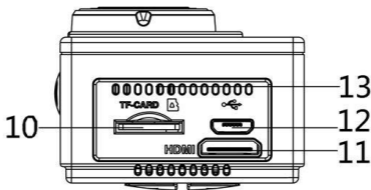
## GETTING TO KNOW YOUR CAMERA

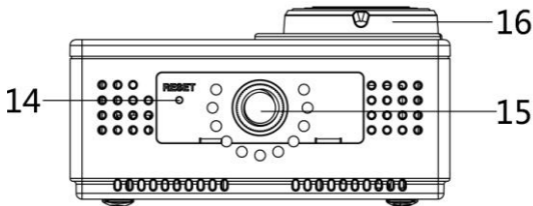
### DEVICE OVERVIEW



1	Menu button	2	OK button
3	LCD screen	4	Down button

5	Up /Wifi button	6	LED indicator light
7	Shutter/Power button	8	Mode button
9	Microphone	10	Micro SD card slot
11	HDMI socket	12	USB socket
13	Speaker	14	Reset
15	Tripod hole	16	Lens





## USING THE ACTION CAMERA

### BATTERY OPERATION

1. Make sure the action camera is turned off.
2. To charge the internal battery, connect the action camera with the USB cable provided to a computer or a 1Amp wall charger.
3. The led indicator will light up red when charging.
4. The battery will become fully charged after 4 hours.

5. Once fully charged the charging indicator will disappear.
6. Approximate battery life depending on the situation is:

## **INSERTING MICRO SD CARD**

This action camera does not have internal memory.

A Micro SD (TF) card (Class 10) and above must be inserted for this action camera to operate and record.

1. Turn off the action camera
2. Find the Micro SD card slot, and then insert the Micro SD card.

## **ACTION CAMERA OPERATION**

### **START-UP/SHUTDOWN**

Press and hold the “Power” button for 3 seconds, the screen





will turn on.

To Turn the action camera off Press and hold the “Power” button for 3 seconds, the screen will turn off.

NOTE: The action camera has a power saving setting and will automatically turn itself off after 5mins of inactivity to save power.

## MODES

The camera has four modes for the action camera video mode, capture mode, car mode, playback mode. Press the “Mode” button to switch between these modes.

	Video mode	Recording movie clips
	Capture mode	Taking still images
	Car Mode	Recording while in the car
	Playback mode	Viewing the recorded files

## ACTION CAMERA SETTINGS

Before taking photos or recording videos, press the “Power” button to switch on the action camera first. Press the “Menu” button and the menu will appear on the LCD screen, and then press the “Mode” button to access the settings menu as below. Use the “Up” “Down” and “OK” buttons to make your selections, also the “Mode” button to toggle the selections.

MENU	FUNCTION
Sounds	<p>Allows you to change the sounds on the camera:</p> <p>Shutter : <b>【On】 / 【Off】</b></p> <p>Start-up: allows you to choose 3 different sounds where camera is turned on.</p> <p>Beep : <b>【On】 / 【Off】</b></p> <p>Volume: adjust the volume from 0 - 3</p>

Back Light	Set the backlight :  <b>【1min】 / 【 3min 】 / 【5min】 / 【off 】</b>
LED	Allows you turn the LED <b>【On】 / 【Off】</b>
Power Save	To save power, the video camera is turned off automatically after a period of time.  After you select the "off " that means the power save function is switched off  <b>【1min】 / 【 3min 】 / 【5min】 / 【off 】</b>
Date and Time	Sets the date and time for the camera.
Language	Set the on-screen language:  <b>【EN】 / 【DE】 / 【IT】 / 【ES】 / 【PT】 / 【NL】 / 【FR】</b>
Power Frequency	Light Frequency should be set depending on your region: For Australia please ensure

	setting is on 50Hz
USB	There are two functions when using USB <b>【MSDC】 / 【PCCAM】</b>
WIFI Password	Allows you to change the wifi password, standard password is set as 1234567890
Format	Format your SD card including protected files, removing the SD card during formatting may damage the card. <b>【OK】 / 【Cancel】</b>
Reset All	Restores the action camera to default settings: <b>【OK】 / 【Cancel】</b>

## VIDEO MODE

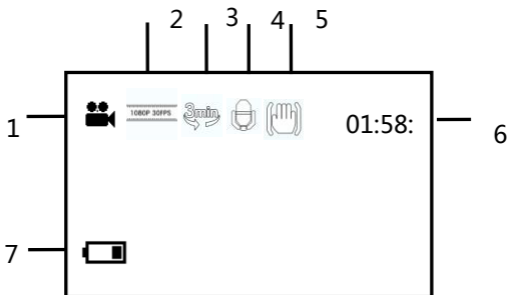
1. Turn on the action camera; the camera should automatically be set to video mode when camera is turned on.
2. Press “Shutter” button to start recording.

4. The LCD monitor will display how long it has been recording for.
5. While recording, to pause press the “Up” button, to turn the LCD screen off press the “Down” button
6. Press the “Shutter” button again to stop recording.
7. The action camera will stop recording automatically when the memory capacity is full. (While under the loop recording setting, once memory capacity is reached, it will erase files taken from the beginning.

## VIDEO MODE SCREEN

When in Video mode, the below screen will show.

1.Video mode	5.Stabilizer
2.Movie Resolution	6.The Record Time
3.Loop Recording	7.Battery level
4.Audio	



## SETTINGS IN VIDEO MODE

While in video mode, press the “Menu” button and the below settings will appear.

MENU	FUNCTION
Size	Changing the video resolution for the recording. Select small movie size to record longer time. There are four items for option: <b>【1080p】 / 【720p】 / 【720P 60fps】</b>

White Balance	Adjust the white balance to suit different light sources. There five items for option: <b>【Auto】/【Daylight】/【Cloudy】/【Fluorescent】/【Tungsten】</b>
Video Quality	Adjust the quality of the recording <b>【Super Fine】 / 【Fine】 / 【Normal】</b>
Stabilizer	Helps to keep the recording stable <b>【On 】 / 【Off 】</b>
Voice Rec	Record voice when recording movie clips <b>【On 】 / 【Off 】</b>
Loop recording	While under the loop recording setting, once memory capacity is reached, it will erase files taken from the beginning. Set the loop recording time: <b>【Off 】 / 【1min】 / 【 3min 】 / 【5min】</b>
Motion	When the setting is set to ON the camera will

Detection	<p>automatically detect any movement within 4 metres and start automatically recording.</p> <p><b>【On 】 / 【Off 】</b></p>
Slow Motion	<p>Enables slow motion recording</p> <p><b>【On 】 / 【Off 】</b></p>
Time-lapse	<p>Enables time-lapse recording</p> <p><b>【Off】 / 【3sec】 / 【5sec】 / 【10sec】 / 【30sec】 / 【1min】 / 【3min】</b></p>
Time-lapse Duration	<p>Choose the duration of your time-lapse recording</p> <p><b>【Unlimited】 / 【3min】 / 【5min】 / 【10min】 / 【15min】 / 【20min】 / 【30min】 / 【60min】</b></p>
Date Stamp	<p>This function can be used to add a date and time to your pictures.</p> <p><b>【Off】 / 【Date】 / 【Date&amp;Time】</b></p>

## PHOTO MODE

1. Turn on the action camera; the camera should automatically be set to video mode when camera is turned on. Press the “Mode” button to change to capture mode.
2. Take a still image by pressing the shutter button.
3. After the image has been taken the LCD will display black for a brief second.
4. The memory capacity in the top right of screen will decrease as each image is taken.

## SETTINGS IN PHOTO MODE

While in photo mode, press the “Menu” button to access the photo settings.

MENU	FUNCTION
Resolution	Allows you to change the image resolution: <b>【12M】 / 【8M】 / 【5M】 / 【3M】 / 【2M】</b> <b>/ 【VGA】</b>

White Balance	Adjust the white balance to suit different light sources. There five items for option: <b>【Auto】 / 【Daylight】 / 【Cloudy】 / 【Fluorescent】 / 【Tungsten】</b>
Image Quality	Select a lower image quality to decrease the image size in order to take more images. There are three options for choice: <b>【Super Fine】 / 【Fine】 / 【 Normal】</b>
Metering	Changes the metering method, which enables to change the brightness of the picture: <b>【Centre】 / 【Multi】 / 【Spot】</b>
Sharpness	You can set the level of sharpness in the images taken with your camera. The sharpness level dictates if the edges of objects in the image are more or less

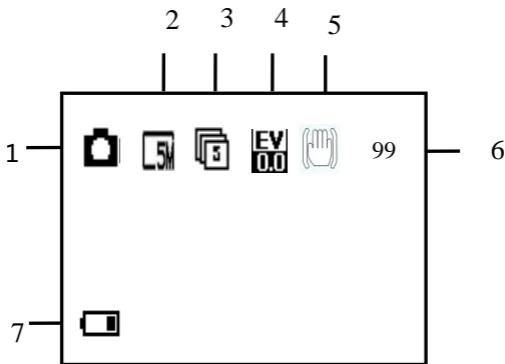
	<p>distinct.</p> <p><b>【Sharp】 / 【Normal】 / 【Soft】</b></p>
ISO	<p>The ISO menu allows you to set the level of sensitivity that your camera has to light in the surrounding environment.</p> <p><b>【Auto】 / 【50】 / 【100】 / 【200】 / 【400】 / 【800】 / 【1600】</b></p>
Exposure	<p>Set the exposure value manually to compensate for unusual lighting conditions : <b>【-2】 / 【-1.7】 / 【-1.3】 / 【-1】 / 【-0.7】 / 【-0.3】 / 【0】 / 【+0.3】 / 【+0.7】 / 【+1】 / 【+1.3】 / 【+1.7】 【+2】</b></p>
Stabilizer	<p>Helps to keep the recording stable</p> <p><b>【On 】 / 【Off 】</b></p>
Auto Review	<p>After taking photo the will be displayed on the LCD screen for the below amount of</p>

	time. <b>【Off】 / 【1sec】 / 【3sec】 / 【5sec】</b>
Self-Timer	Each time you press the “Shutter” button it will count down the number of seconds before the image is taken: <b>【Off】 / 【2sec】 / 【10sec】</b>
Photo Burst	Each time you press the “Shutter” button it will continuously take a few pictures: <b>【Off】 / 【3】 / 【5】 / 【10】</b>
Time-lapse	Enables time-lapse photography, it will take one photo per the below timing: <b>【Off】 / 【3sec】 / 【5sec】 / 【10sec】 / 【30sec】 / 【1min】 / 【3min】</b>
Time-lapse Duration	Choose the duration of your time-lapse photographing <b>【Unlimited】/【3min】/ 【5min】/【10min】 【15min】 / 【20min】 / 【30min】 / 【60min】</b>

<p>Date Stamp</p>	<p>This function can be used to add a date and time to your pictures.</p> <p><b>【Off】 / 【Date】 / 【Date&amp;Time】</b></p>
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## PHOTO MODE SCREEN

When in Photo mode, the below screen will show.



1.Photo mode	5.Stabilizer
2.Resolution	6.Memory capacity
3.Photo Burst	7.Battery level
4.Exposure	

## CAR MODE

Press the “Mode” button to bring up the car mode.

When in car mode the screen will automatically rotate 180 degrees. This is for when your camera is connected to a windshield/windscreen mount (Not included), it will record the correct the way and not be upside down.

The Process for recording and changing the settings is as per the Video mode.

## PLAYBACK MODE

1. Press the “Mode” button until you reach playback mode. Here you will be able to review all the files you have recorded.
2. When entering playback mode a menu will appear showing Video File, Car File, JPG File, and Protect File.
3. Use the “Up” “Down” and “Ok” buttons to select the files you want to review.
4. To review the Video or Car File press the “Ok” button to start playing the video file, to pause the video press the “Up” button. Press the “Menu” button to stop playing the video file.
5. When viewing the images, use the “Up” and “Down” buttons to scroll through the images, press the “OK” button and it will create a slideshow.
6. To exit from each of the file menus and take you back to the original screen press the “mode” button.

## PLAYBACK VIDEO/CAR/PROTECT FILE

1. Playback mode

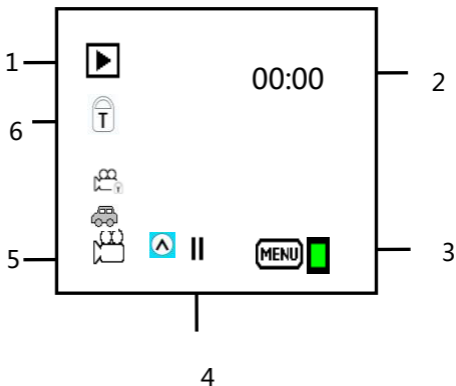
2. The time

3. Exit

4. Pause

5. Video /car/protect File

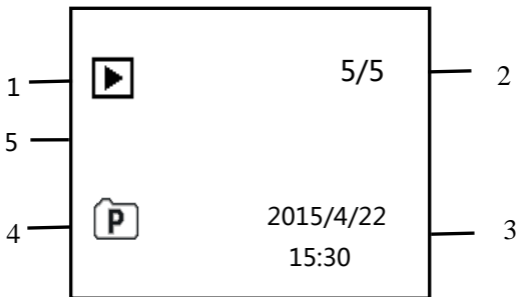
6. Lock



## PLAYBACK JPG FILE

1. Playback mode
2. Sequence of File
3. Date and Time

4. Image File
5. Lock



## SETTINGS IN PLAYBACK MODE

While in playback mode, press the “Menu” button to access the settings.

MENU	FUNCTION
Lock	Use this function to protect the files from being deleted by accident. <b>【Single】 / 【Lock All】 / 【Unlock All】</b>
Delete	Use this function to delete a single file or all files. <b>【Single】 / 【All】</b>
Slide Show*	Change the slide show settings when using the slideshow function for reviewing photos <b>【Start】 / 【Interval】 / 【Transition】 / 【Repeat】</b>
Rotate*	Use this function to rotate the images. <b>【Rotate】 / 【Save】 / 【Back】</b>
Resize*	Resize images to a smaller resolution. <b>【5M】 / 【3M】 / 【2M】 / 【VGA】</b>

\* Functions only available when viewing photos.

## WIFI MODE

The action camera comes with Wi-Fi function so you can wirelessly stream your video to your Smartphone or control your action camera by your phone.

Firstly download the free APP “ISMART DV” which can be downloaded from the iTunes store or Google Play store.



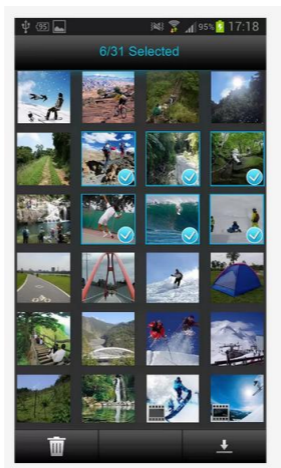
1. After the App has been downloaded and installed. Insert Micro SD card into the action camera.
2. To turn on the Wi-Fi function, press the “Up” button to

activate Wi-Fi. The screen will display “Waiting for WIFI Connection...”

3. Now with your mobile phone, disconnect from any current wireless networks and search for a WIFI connection called MGOVS015 and connect using password: 1234567890, the LCD screen on the camera will now say “WIFI Connection Ready” once connected. (In order to save power, the Wi-Fi will automatically turn off if it cannot be connected after 60 seconds)
4. Once connected successfully, open the ISMART DV App.



5. You can control the action camera with the App to take photos, videos and change different settings.
6. To watch the recorded videos you will need to download these from the APP to your phone, then watch the video as per you normally would on your phone



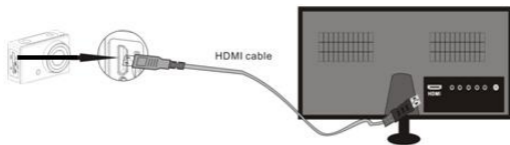
## CONNECTIONS

### CONNECTING TO HDTV

The action camera can be connected to a HDTV via a Mini HDMI cable (not supplied).

Note: Before connecting or removing the HDMI cable, please stop video recording, playback and disconnect Wi-Fi.

1. Connect the action camera to a TV via a Mini HDMI cable (not supplied).



2. Turn on the TV and the action camera, and then set the TV to HDMI mode.
3. When HDTV is connected, the action camera screen will go

black and the TV will display what is shown on your camera. From here you can playback your files on your TV by following the previous steps in playback mode.

## CONNECTING TO PC

Turn on the action camera and connect it to the USB port of the PC via the supplied USB cable. The action camera will enter MSDC mode and will be displayed on your cameras screen.

Once connected to the PC the driver will automatically install.

Now you can view the photos or videos taken by action camera on the PC/Mac.

Note: when watching the videos on your computer, please ensure you are using the latest version of your media player.

## **USING THE REMOTE CONTROL**

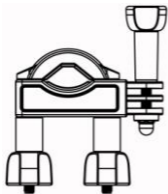
You can use the remote control to record videos, take photos and turn off the action camera. The remote control uses 2.4 GHz wireless technology so you don't need to point it towards the camera for it to work. The remote control has a 10-15m working range.

The remote control is powered by 1 x AAA battery (not included), please remove the battery cover and install the battery.

## **USING THE MOUNTING ACCESSORIES**

There are two mounts included in the action camera box.

- A. Bike Mount
- B. Helmet Mount



A



B

The bike and helmet mounts can be attached to either the action camera directly or waterproof case (with the camera inside)

## FIXING THE ACTION CAMERA TO A BIKE

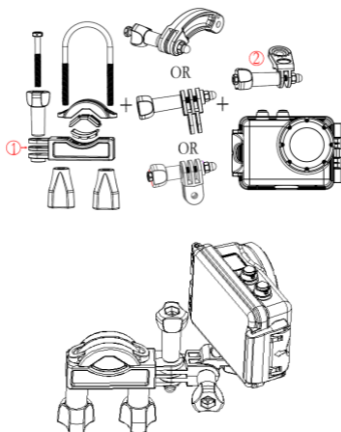
1. Find the **Bike Mount A**
2. This mount is separated into 3 parts.

Main Section (1)

Mounting Bracket (2)

Connectors

2. Choose the connectors from the three given below depending on how you want to mount your camera, and then fix them to the part 1 of the main mount and part 2 the mounting bracket.



Make sure all the screws are done up tightly.

## FIXING THE ACTION CAMERA TO A HELMET

1. Find the **Helmet Mount B**

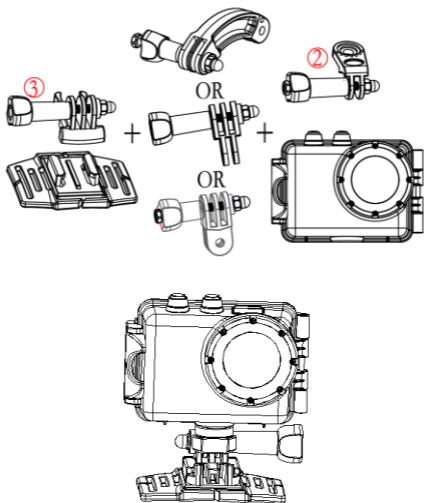
2. This mount is separated into 3 parts.

Main Section (3)

Mounting Bracket (2)

Connectors

2. You can either connect the mounting bracket directly to the main section or choose some of the connectors from the three given below depending on how you want to mount your camera, and then fix them to the part 3 of the main section and part 2 the mounting bracket.



3. After fixing the action camera to the mount, use the strap provided or Sticker to attach to your helmet.

## WATERPROOF CASE CARING INSTRUCTIONS

Before sealing the waterproof case, keep the camera housing's rubber seal clean, a single hair or grain of sand can cause a leak. You can test by closing the case without inserting the camera. Submerge the case completely in water for about a minute. Remove the case from the water, dry off its exterior with a towel, and then open the case. If the entire interior is dry, the case is safe for use under water

After every use in salt water you will need to rinse the outside of the housing with non-salt water and dry. Not doing this can eventually cause corrosion of the hinge pin and salt buildup in the seal, which can cause failure.

To clean the seal, rinse in fresh water and shake dry (drying with a cloth may cause lint to compromise the seal). Re-install the seal into the grooves in the backdoor of the housing.

Please note: the waterproof case is rated for use up to 45 metres deep.

## **FCC WARNING**

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE 1: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no

guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

NOTE 2: Any changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.