

 **Discovery™**

AGES
6+

INSTRUCTION MANUAL



Waterproof Case
to 30m

**FULL HD
1080P**
1920 x 1080



Last up to
70 Minutes



WARNING:
CHOKING HAZARD – Small parts.
Not for children under 3 years.

HD Action Camera

1080p Camera & Waterproof Case

About this Instruction Manual



Please read the safety instructions and the operating instructions carefully before use. Keep these instructions for renewed use at a later date. When the device is sold or given to someone else, the instruction manual must be provided to the new owner/user of the product.

Intended Use

This product is intended only for private use. It was developed as an electronic medium for the use of multimedia services.



General Warnings

- **Risk of choking** — Keep packaging material, like plastic bags and rubber bands, out of the reach of children, as these materials pose a choking hazard. This product contains small parts that could be swallowed by children.
- Leaking battery acid can lead to chemical burns. Avoid contact of battery acid with skin, eyes and mucous membranes. In the event of contact, rinse the affected region immediately with a plenty of water and seek medical attention.
- **Risk of electric shock** — Never bend, pinch or pull the power and connecting cables, extensions and adapters. Protect the cables from sharp edges and heat. Before operating, check the device, cables and connections for damage. Never use a damaged unit or a unit with damaged power cables. Damaged parts must be exchanged immediately by an authorised service centre.
- **Risk of property damage!** — Do not disassemble the device. In the event of a defect, please contact your dealer. The dealer will contact the Service Centre and can send the device in to be repaired, if necessary.
- Do not expose the device to high temperatures. Use only the supplied power adapter. Do not short-circuit the device or throw them into a fire. Excessive heat or improper handling could trigger a short-circuit, a fire or an explosion.
- Do not interrupt an on-going data connection to a computer before all data has been transferred. This could lead to data loss for which the manufacturer is not liable.

Notes on Cleaning

Turn off the camera. Clean the eyepieces and/or lenses only with a soft, lint-free cloth, (e.g. microfibre cloth). To avoid scratching the lenses, use only gentle pressure with the cleaning cloth. Only use a dry cloth to clean the exterior of the device. To avoid damaging the electronics, do not use any cleaning fluid. Clean the protective case after each use with clear, clean water and dry it thoroughly.

Disposal



Dispose of the packaging materials properly, according to their type, such as paper or cardboard. Contact your local waste-disposal service or environmental authority for information on the proper disposal.



The integrated battery must only be removed for disposal. Opening the device housing can damage the unit. Drain the battery completely before disposal. Remove all the screws in the housing and open the device housing. Remove the connections to the battery and remove it. Cover the open contacts with tape and package the battery in such a way that it cannot shift in the packaging.



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.

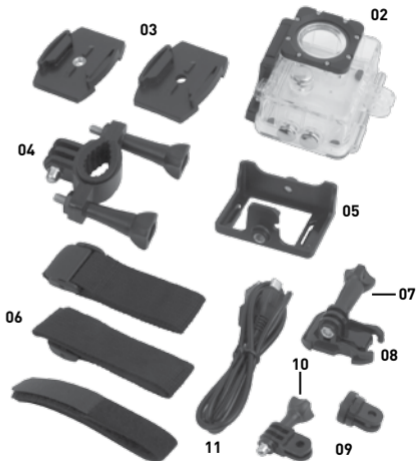
Please note that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: 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.

Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user authority to operate the equipment.

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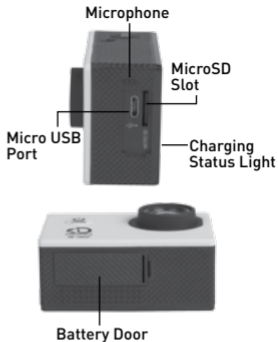
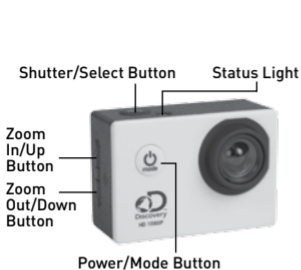
- 01** 1080p Camera
- 02** Waterproof Case
- 03** Flat Adhesive Mounts
- 04** Handle Bar/Pole Mount
- 05** Frame Housing Mount
- 06** Velcro Straps
- 07** Long Thumb Screw
- 08** Quick Release Buckle
- 09** Pivot Mounts
- 10** Short Thumb Screw
- 11** USB Cable

INSTRUCTIONS

Product Features

- A water-resistant casing that allows you to film fascinating water sports:
Water-resistant up to 100 ft. (30 metres) underwater.
- High definition screen that displays and replays fascinating videos that have been recorded.
- Rechargeable battery that is easy to replace and prolongs your camera's service life.
- Video recording while charging.
- Video recording with battery.
- 12 mega pixel (HD) wide-angle lens.
- HDMI HD output.
- Supports Micro SD/TF Memory cards up to 32 GB maximum.





Operating

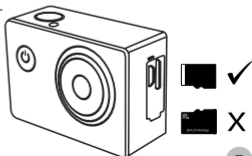
1. Inserting Micro SD card

Note: For best performance, please choose a branded Micro SD card and format it on your computer before use.

Insert a microSD card with the label facing the screen.

Use brand name memory cards that meet these requirements:

- a) microSD, microSDHC, or microSDXC
- b) Class 10 speed rating
- c) capacity up to 32GB



INSTRUCTIONS

2. Installing or removing the battery

- A. Press on the battery cover to open it.
- B. Correctly install the battery into the camera.
- C. Remove Battery: Simply open battery cover to take the battery out.

3. Charging

- A. Charging can be done with the power adapter or by connecting the action camera to a computer via the usb cable.
- B. The action camera can record video while charging
- C. Charging of the action camera can be done even when it's powered off.

4. Turning camera on and off





- A. Press and hold the power switch for three to five seconds to turn the camera on or off.
- B. Switch the display screen on or off by pressing the **[DOWN]** button to save battery life during use.

5. Mode Switching

- A. Press the **[Power On-Off / mode]** button [] repeatedly to cycle through the camera modes.


Camera mode

Description



Camera mode	Description
 Video recording mode	Video, Loop Recording, Motion detect
 Photo shooting mode	Single, Photo timer, Burst, Time lapse
 Play back mode	Play back content on the TFT display or on a TV via HDMI cable.
 Settings	Adjust all camera settings

6. How to record videos and configure recording setting

6.1. Video Recording

Turn the camera on. You will start with the video recording mode. There will be an  icon in the upper left corner. Insert a SD card and start recording by pressing "OK". Press "OK" again if you want to stop the recording.

6.2. Photo shooting & Settings

Switch to photo shooting mode by pressing []. There will be an  icon in the upper left corner. Press "OK" to take photos.

6.3. File Storage & Play back

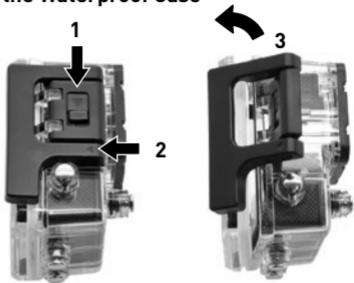
After you have finished recording use a USB cable to export the videos onto a computer for play back. You can also take the Micro SD card out and access the image data with a card reader.

MOUNTING THE CAMERA

How to Open and Close the Waterproof Case

How to Open:

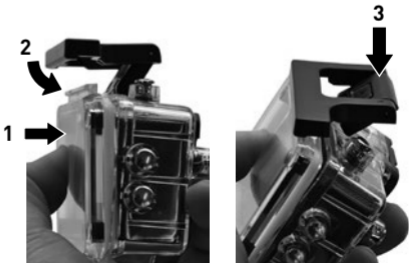
Press and hold down the ▼ switch (1) and then use the ◀ arrow (2) to open the clamp (3).



How to Close:

Press the case door all the way down (1) and then snap the clamp to the hinge (2).

Now, simply press the clamp down (3) to close.



Base Mount Example

01



02



MOUNTING THE CAMERA

Helmet Mount Example

01



02



Pole/Bicycle Mount Example

01



02



INSTRUCTIONS

Settings

Video Resolution	Change video resolution (1920X1080 recommended)
Picture Resolution	Change Picture resolution (12M - 4032X3024 recommended)
Photo Timer	Off / 2s / 5s / 10s
Burst	Off / 3 Picture / 5 Picture
Time-lapse	Single / 3s / 5s / 10s
Time Stamp	Off / On
Motion Detect	Off / On (video mode only)
Loop Recording	Off / 1 Min. / 2 Min. / 3 Min. (video mode only)

Audio Record	Off / On
EV (Exposure value)	+2/3 / +1/3 / +0.0 / -1/3 - 2/3 / -1.0 / -4/3 / -5/3 / - 2.0
Delete	Delete One / Delete All
Protect	Lock One / Unlock One Lock All / Unlock All
Format	All data on the sd card will be deleted
Language	Choose OSD language
Volume	Change OSD volume
Auto Off	Off / 1 Min. / 3 Min. / 5 Min.
LCD Off (Auto screen off)	Off / 3 Min. / 5 Min. / 10 Min.
System Reset	Reset system to default settings
Refresh rate	50 Hz / 60 Hz
Date/Time	Set current date and time
Panel Rotate	Off / On
Version	View current firmware version

INSTRUCTIONS

Technical Data

TFT Display	1.5 in. (3.81 cm) display
Lens	140° wide angle
Waterproof case	Resistant up to 100 ft. (30 m)
Language options	English / German / French / Spanish / Italian / Portuguese / Chinese Traditional / Chinese Simplified / Japanese / Russian
Resolution of photos	12 MP (4032x3024), 10 MP (3648x2736), 8 MP (3264x2448), 5 MP (2592x1944), 3 MP (2048x1536), 2 MP (1920x1080), 1.3 MP (1280x960), VGA (640x480),
Resolution of videos	1920x1080, 1440x1080, 1280x720, 848x480, 640x480
Video format	AVI
Compressed format of videos	mjpeg

Storage	Micro SD card up to 32 GB possible
Shooting mode	Single shot / Self-timer (2s/5s/10s)
Frequency of optical source	50Hz/60Hz
USB interface	USB 2.0
Power source interface	5 V \equiv 1000 mA
Battery capacity	800 mAh
Power dissipation	400mA@4.2V
Recording time	About 70 minutes (at 1080p)
Charging time	About 3 hours
Operating systems (OS)	Window XP / Vista / Win 7 / Mac OS X
Dimensions	2.33 x 1.62 x 0.97 in. (59.3x41.1x24.6 mm)
Weight	60 grams

Note: Specifications could be subject to change due to upgrading or updating.
Please regard the actual product as the standard.

NOTES



Handwriting practice lines consisting of 10 horizontal solid grey lines.



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CONFORMS TO THE SAFETY REQUIREMENTS OF ASTM F963

