

MGCOOL










iOS & Android App

# E X P L O R E R 2 C

User Manual

[www.mgcool.cc](http://www.mgcool.cc)

## Package Contents

	1xMGCOOL Explorer 2C with waterproof case
	1xCamera Bracket
	1xClip
	1xUSB data cable
	1xBicycle stand
	1xAdaptor
	2xHelmet base
	1xUser manual 1xWarranty card

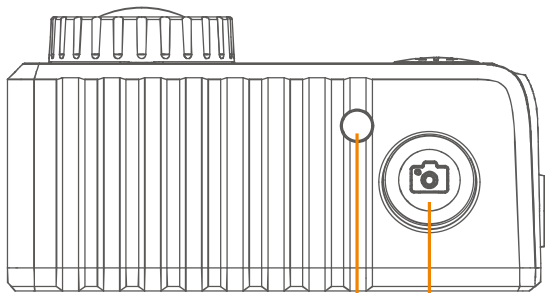
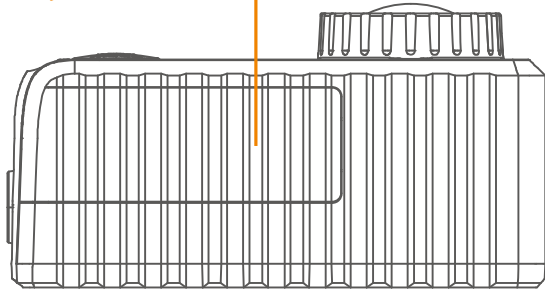
## Usage Notices

- Before using the camera, please read the following safety precautions carefully.
- Follow the User Manual to operate the camera properly. Wrong operation may cause damage to internal components.
- Do not drop or hit the product, otherwise it will easily lead to damage to internal components.
- For safety reasons, keep this product and accessories away from children or animals to avoid accidents.
- Do not place the camera in damp or dusty environment for long time. It may lead a fire caused by leakage.
- Do not expose the camera to high temperature for long time, this may cause damages to the camera housing and internal components.
- In order to maximize the effectiveness of the battery, camera is recommended to be used at temperature  $-10^{\circ}\sim 70^{\circ}$ .
- Before inserting or swapping a memory card, please make sure that the camera is turned off to prevent damage to the card or stored data. It is a normal phenomenon that temperature rises during the camera in usage.

- Do not touch the lens during using to avoid affecting the shooting effects.
- Clean the lens with a hair dryer (special lens blowing device) or use a special mirror cloth to wipe the lens, clean the surface fingerprints or dust.

## Appearance & Buttons

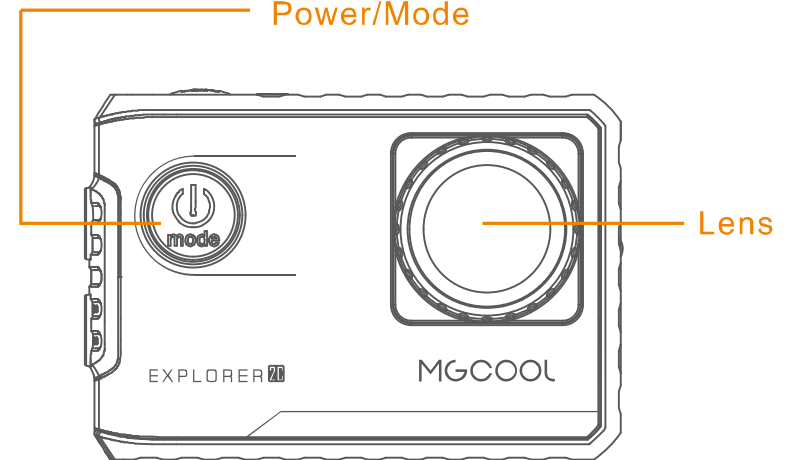
Battery Cover



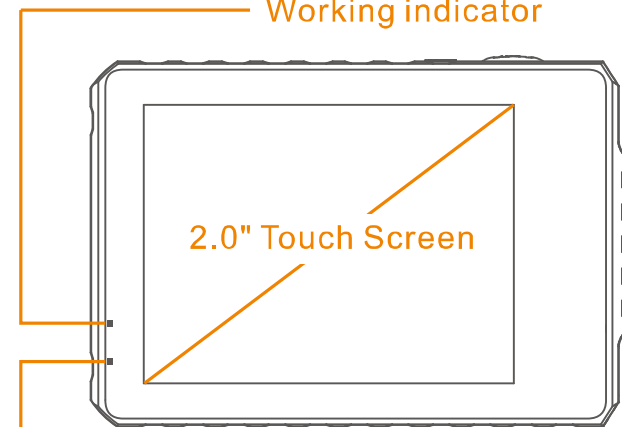
WiFi Indicator

OK

Power/Mode

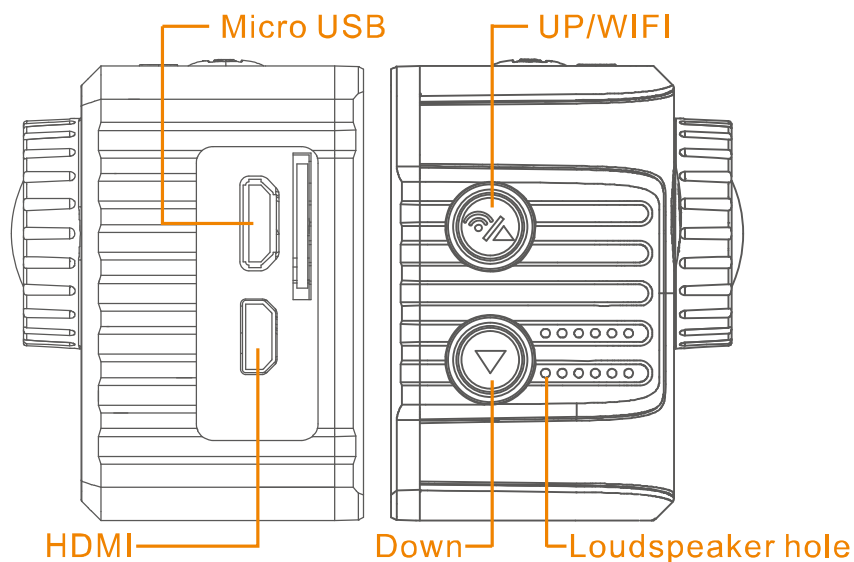


Working indicator



Charging indicator









## Key Function



- [Power/Mode] Button: Short press to turn on, long press to turn off. Under standby: Short press to switch between starting video, taking a photo and playback mode.
- [OK] Button: Under standby, short press to start video, stop video or take a photo. Under play back mode, short press to play or stop video playing back. Under system setting, short press to enter/confirm the menu option. Under screen locked, short press to unlock. Under video recording, long press to pause taking video and

short press to continue recording. Under play back mode, long press to delete the displaying video.

- [▲ Up] Button: under standby, short press to enter menu of video or photo. Under menu setting, press to select menu. Under play back mode, press to fast forward. Under standby mode, long press to turn WIFI on or off.
- [▼ Down] Button: under standby mode, short press to enter current mode setting or system setting.

## Touch Screen

- Touch symbol  at the top left corner or slide up on screen to enter function-option page.
- Slide right to enter playback mode. Under play back mode, slide right or left to switch files.
- Under playing back mode, slide left/right to preview files.
- Touch  symbol at the left button corner to enter current mode detail options and basic setting options. Touch any option to complete related setting.
- Under Video mode, touch red round symbol  to start and stop video. Under Photo mode, touch cube symbol  to take a photo.

- Under screen locked, slide from left to right to unlock the screen. 
- Touch voice control symbol  on the top of screen to turn on/off the voice control function.

## Voice Control

With voice control function on, camera can be controlled by voice for some functions, such as: Video Start, Stop Video, Photograph, Shut down.

Language	English	中文
Video function	Video Start	开始录影
Video function	Stop Video	停止录影
photo function	Photograph	拍照
power off	Shutdown	关机

Notes:

Voice control function is now in Beta. We are continually evolving and improving it.

## Auto-lock

Screen is locked after 1 minute no operation defaultly.

Ways to unlock screen:

1. Press **OK** button when screen shows “slide to

unlock” to unlock screen.

2. Slide on screen from left to right to unlock the screen to enter normal operation.
3. Press any button on remote controller to unlock.

## Battery Charging

Connect camera to power source with USB cable. Red indicator keeps on during charging, and indicator turns off after battery is fully charged.

Warm Tips:

- In order to improve the charging efficiency, please charge battery when camera is turned off.
- Make sure that charger is connected correctly to power sources.

## Insert or Extract Memory Card

1. Insert memory card to make sure that camera can take videos normally.
2. Extract memory card by light pressing the card until it pops.

Warm Tips:

Please make sure that memory card is inserted in right direction. Wrong direction may damage the camera and memory card.

## Connect with Computer

### 1. Read Files

Connect camera to computer with USB cable, there are Storage and PC Camera displaying on the screen, press Up▲ or Down▼ to select Storage, then press **OK**, or touch Storage on the screen. Unfold Novatek file in the removable disk, there are Movie and Photo files.

### 2. Turn on PC Camera

Connect camera to computer with USB cable, there are Storage and PC Camera displaying on the screen, press Up▲ or Down▼ to select PC Camera, then press **OK**, or touch PC Camera on the screen. Turn on the camera on computer.

Notes:

Camera turns off automatically when camera disconnected from computer.

## Turn On/Off Camera

### 1. Turn On Camera

Short press Power button, camera is turned on with a beep sound. Camera is defaulted with 3 mins loop recording, and ready to take video. Symbols of Video, time of loop recording, Exposure, WDR, video lasting time, resolution,

white balance, audio recording, memory card, battery, date and time can be seen on the screen.



### 2. Turn Off Camera

- Long press Power button for 3 seconds to turn off the camera with a beep sound.
- Turn off the camera by voice control when the voice control function is activated.

## Menu Introduction

Short press Power button to enter Video Mode, Photo Mode, Play Back Mode.

## System Setting

Under standby, touch the setting symbol  at left bottom to enter current mode setting and system menu setting. Touch the setting symbol  to enter system setting. System Setting menu as follow:

- Language:  
ENGLISH/FRANÇAIS/ESPAÑOL/Portuguese/DEU  
TSC/ITALIANO/简体中文/繁體中文/РУССКИЙ/日  
本语/ Polski/한국어
- Date/Time: Set Year/Month/Date and Time by touching Up or Down arrows to modify the numbers, and touching √ to confirm

- 3) Auto-Lock: Off/30s/1min/3mins. Default to screen protected after 1min
  - 4) Auto Power Off: Off/ 1Minute/ 3Minutes/ 5Minutes/ 10Minutes. Camera is defaulted to power off after 3 minutes no operation. Select to close auto power off function.
  - 5) Voice prompt: ON/OFF
  - 6) Frequency: 50Hz/60Hz
  - 7) TV Mode: NTSC/PAL
  - 8) TV: OFF/ON
  - 9) Voice Control: OFF/ON
  - 10) Spot Metering: Off/On
  - 11) Delete files: OK/NO. Select OK to delete all unlocked files.
  - 12) Lock all files: select OK to lock all files.
  - 13) Unlock all files: select OK to unlock all files.
  - 14) Format: OK/NO. Touch OK to format the memory card, please select OK carefully.
- Warm Tips: Please format TF card in camera at the first time using. If it's formatted on computer, please select 32K or 64K allocation unit.
- 15) Return menu setting to defaults: OK/NO. Select OK to delete all previous setting, and restore factory defaults.
  - 16) Version: display current version information of firmware. Firmware may be updated accordingly, please follow the actual version.

## Video Mode

### 1. Video

Three ways to take video: press **OK** button to take video when camera is turned on; touch video symbol on the right side; voice control. Video symbol and blue working indicator flashing, video resolution displaying on screen during recording video. When memory card is full, video stops automatically. Press **OK** button again to stop video and file is saved. Video remaining time shows on the top of screen during video standby.

Notes:

- 1) Long press Down button to pause video, and short press **OK** button again to continue video. File is not saved when video paused, will be saved when video stops.
- 2) Touch video symbol on screen to start or stop video.
- 3) Turn Voice Control on, when camera is controlled with voice control , and pay attention to the language setting. In English, "Video Start" or "Stop Video".

### 2. Time-lapse Record

Interval time can be set under Time-lapse mode. Switch camera to video standby status, press **OK** to take a video, press **OK** again to stop a video. Video plays faster when it's played back. Such function can be used to take video of a project progress, weather variations, flower blooming, etc.

Switch menu to turn off Time-lapse mode to restore normal video mode.

Note: Interval time can be set under the menu. This mode is used for long time recording only, and video time should be no shorter than 1 minute.

### 3 Slow Motion

Touch the Slow Motion icon to capture a slow motion. HD P120 and VGA 240 can be selected.

### 4. Timing Photo

Set time to automatically capture during long time recording video, timing at 5s/10s/30s.

### 5. Loop Recording

Loop Recording can be set for 3/5/10 minutes. When memory card is full, the first video is covered so as to keep recording.

### 6. Motion Detection

Select Motion Detection on, then switch to video standby, camera starts video when something moves in front of camera. Camera stops recording if no motion detected in 10 seconds, and keeps monitoring.


Press **OK** button to stop video and stop monitoring to enter video standby status.

Note: Time-lapse and Motion Detection cannot be activated at the same time.

### 7. Video+Photo

Press Power button to capture an image during video, photo symbol flashes at the top middle of screen. Video keeps recording when capture. Review the photo under the playback mode.

### 8. Setting Menu of Video Mode

Screen displays current system setting and all functions activated. Click setting symbol  to enter menu setting, specific as follows:

- 1) Resolution: 4K 24FPS/2K 30FPS/1080P 60FPS /1080P 30FPS/HD 120FPS/HD 60FPS/HD 30FPS
- 2) Time lapse: Off/1s/2s/5s/10s/30s/60s
- 3) Auto capture: 5s/10s/30s
- 4) Loop video: 3 minutes /5 minutes /10 minutes
- 5) WDR: ON/OFF
- 6) Exposure  
Value: +2.0/+1.7/+1.3/+1.0/+0.7/+0.3/0/-0.3/-0.7/-1.0/-1.3/-1.7/-2.0
- 7) Angle: 170°/140°/110°/70°
- 8) Motion Detection: Off/On
- 9) Record Audio : Off/On
- 10) Date Stamp: Off/On
- 11) Gyroscope: Off/On
- 12) Color: Colorful/Black & White/Brown
- 13) Sharpness: High/Normal/Medium
- 14) Image rotation: Off/On



### 15) White Balance:



Auto/Daylight/Cloudy/Tungsten/Fluorescent

### 16) Diving Mode: Off/On



### 17) Fish eye adjust : Off/On

Notes: Setting menus of 4 different video modes are different, please select and set accordingly.



## Photo Mode

Touch upper left icon or slide up the screen to enter Menu Mode:  click Photo icon  to enter to Photo Mode. Press "OK" button to take pictures. Or use the command "photograph"/ "拍照" to take photos.

## Burst Mode

Touch upper left icon or slide up the screen to enter Menu Mode. Touch Burst icon  to enter to Burst Mode. Touch bottom left icon  to enter to Burst Setting Menu, and to choose Single /Burst 3 / Burst 5 / Burst 10.

## Self Timer



Touch upper left icon or slide up the screen to enter Menu Mode. Click Photo icon  to enter to Still Mode. Click bottom left icon  to enter Photo Setting Menu, click "Self Timer" button to choose Off / 2S Timer / 5S Timer / 10S Timer. Click bottom

left icon to Exit setup menu. Click "OK" button, camera will take photos under chosen Timer.

## Quick Review Mode

Click Quick Review button under Photo mode to look at just taken pictures when you think go back to playback menu is bothering. Quick Review can be set up for 2 seconds and 5 seconds. Camera will go back to Photo mode only when the standby time go pass the chosen time.

## Photo Mode Menu

When the camera is under Photo Mode (Screen shows ) , click bottom left icon  to enter Photo mode setting menu. Specific as follows:



- 1) Image Size: 20M 5120\*3840 / 16M 4608\*3456 / 12M 4032\*3024 / 10M 3648\*2736 / 8M 3264\*2448 / 5M 2592\*1944 / 3M 2048\*1536
- 2)Exposure Time: Auto / 30 ms / 1Second / 2 Seconds / 5 Seconds / 10 Seconds / 30 Seconds
- 3) Self Timer: Off / 2STimer /5S Timer /10S Timer
- 4) Quality: Fine / Normal / Economy
- 6) ISO: Auto / 100 / 200 / 400 / 800 / 1600
- 7) Sharpness: High / Normal / Medium
- 8) Color: Natural / Black & White / Sepia
- 9) Scene: Off / Night Scene / Lightpainting / Portrait
- 10) Angle: 170° / 140° / 110° / 70°
- 11) WDR: Off / On

- 12) White Balance: Auto / Daylight / Cloudy / Tungsten / Fluorescent
- 13) Exposure Value:  
+2.0/+1.7/+1.3/+1.0/+0.7/+0.3/0/-0.3/-0.7/-1.0/-1.3/-1.7/-2.0
- 14) Anti-Shaking: Off / On
- 15) Diving mode: Off / On
- 16) Fish eye adjust: Off / On
- 17) Date stamp: Off, Date, Date/Time
- 18) Quick Review: Off / 2 Seconds / 5 Seconds



## Playback

Following steps to go to Playback mode:

1. Enter playback mode by pressing the Power button. In video standby mode, press "Power" button twice, then press ▲ / ▼ key to choose videos and pictures. Press "OK" button to review the chosen videos or pictures. Press "OK" button one more time to stop, and press another time to review again. Click "▶" for fast playback the video, press "OK" button to stop fast playback. Click "◀" for rewind playback the video, press "OK" button to stop rewind playback.
2. Enter playback mode by touching the screen. Slide to the right, enter playback mode. Then slide to the left or right to choose the playback videos and pictures.
3. In playback mode, touch the screen to enter

shortcut menu icon . Select Sudoku mode icon  to have quick review when there are plenty photos and videos in memory card. Select files by slide left or right; slide up or down to turn to another page. Touch any photo to read or video to playback.

4. Touch play symbol to play back the video, and touch again to pause playing, touch return symbol to turn back to the beginning of the video.

Note: Image and Video symbol on screen are different. For image the icon is , for video the icon is .

## Wifi Function Introduction

- Install the APP  
Scan QR code on the back cover of the User Manual, or refer to MGCOOL official website: <http://www.mgcool.cc/goods.php?id=55>  
After installation, there is a "MGCOOL Explorer 2C" APP symbol on mobile phone interface.
- Turn On WIFI  
Long press WIFI button to turn on WIFI. Yellow indicator on the top of camera flashing during WIFI connecting.  
Screen display: AP mode  
SSID: : MGCOOL Explorer 2C  
PWA2: 12345678  
Refresh WIFI\_OFF

- Find camera WIFI through WLAN under mobile phone setting, input password to connect camera with mobile phone. Camera returns to video standby mode after WIFI is connected successfully, WIFI ON symbol shows at the left bottom on screen and yellow indicator lit. Then, run the APP to control camera to take photo or video on mobile phone.

Warm Tips: The WIFI is automatically turned off when there is no operation in more than 3 minutes.

### View Files on TV

#### 1. Connect to HD Television

Turn on camera, connect camera and Television with HDMI cable (not included in accessories), and set Television to HDMI mode. Television displays all operations of camera.

#### 2. Connect to normal Television

Turn on camera, connect camera with Television with TV cable, set Television to TV mode. Turn on TV output on camera. Television displays all operations of camera.

Note: TV or HDMI cable is an optional accessory. The TV cable is for image output only, no audio output.

### Wireless Remote Controller Function

#### 1. Remote controller matching needed at the first time using: press Video and Photo buttons on the

controller at the same time for more than 5 seconds, release until Red indicator and Blue indicator flashes alternately. Then, turn on camera. Remote controller searches for camera and matches automatically. Indicators turn off when match is finished. If indicators don't flash when pressing buttons for 5s, it means camera and remote controller are matched successfully.

2. Short press Video button to switch camera to video mode and start or stop video, and restore camera in video standby mode. Long press Video button for more than 2 seconds, camera screen turns off, any button pressed, screen turns on again.
3. Short press Photo (Camera) to switch camera to photo mode and take a photo. Short press Photo button to capture a photo during taking video.

### GPS Function

Plug GPS logger to USB connector on camera, camera records location in the video. Video and motion trails can be displayed on specified PC player.

Note: Wireless Remote Controller and GPS logger are optional accessories, please purchase separately if in need.

## Specifications

Model	MGCOOL EXPLORER 2C
CPU	Novatek NT96660
Sensor	Sony IMX078
Screen	2.0" Touch Screen
Video format	MP4
Video resolution	4K@ 24fps, 2K @ 30fps, 1080P@ 60fps/30fps, 720P@ 120fps/60fps/30fps
Image format	JPG
Image resolution	20M / 16M / 12M / 10M / 8M / 5M / 3M
Lens angle	170°, 140°, 110°, 70° Optional
Expanded memory	TF 64G
Interface type	Micro USB / HDMI
Battery	1050mAh
Dimension	61×42.4×25 mm
Language	ENGLISH/FRANÇAIS/ESPAÑOL/ Portuguese/DEUTSCH/ITALIANO/ 简体中文/繁體中文/PYCCCKИЙ/日本語/ Polski/한국어

Keep the card for  
guarantee  
to keep in repair

## Guarantee

### User File

User name		Sex		Age	
Address					
Telephone					
Product name					
Purchasing Add			Model No.		
Dealer Signature			User Signature		

### Guarantee Item

- 1.30 days upon date of purchase,if there is function problem,we should offer the same item subject to goods and packing maintain perfect.
- 2.1 year upon date of purchase,we will guarantee to keep the goods in repair.(not including accessories)
- 3.Guarantee service is subject to normally using.
- 4.All of damage by man-made(tear open the housing,tear off the sticker,unnormally using),or losing this card,we will not guarantee.

### **§ 15.19 Labelling requirements.**

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.

### **§ 15.21 Information to user.**

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

### **§ 15.105 Information to the user.**

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.

\* RF warning for Portable device:

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.