

# Rollei AC 420

## User Manual

<b>Contents</b>	<b>Page</b>
1.Precaution.....	01
2.Rollei AC 420 Special Features.....	01
3.Product Accessories.....	02
4.Rollei AC 420 Interface.....	03
5.Button function.....	04
6.Operation.....	05
Power on/off.....	05
Insert/Remove Battery.....	05
Battery Charging.....	05
Video Mode.....	06
Picture Mode.....	06
Playback Mode.....	07
Menu Setting.....	08
Remote Control Description.....	10
Install and use WiFi-Function.....	1
Notes.....	12
Playback on PC.....	12
7.Technical specification.....	13
8.Conformity.....	15

## **1. Precaution**

Please be well look through the following guidelines before you use this DVR.

- Please refer to the instruction manual to operate the camera correctly. Illegal operation may cause damage to internal components.
- Do not fall or hit the DVR, it may damage the internal components.
- Do not alter or dismantle the DVR to avoid the damage to the DVR.
- The temperature rise is normal when DVR is in use for a long time.
- Do not touch the lens when recording which will affect the video quality.
- Please use "Class10" and above TF card to ensure machine works properly

## **2. Rollei AC 420 Special Features:**

### **Inversion Mode**

If need to invert camera while using, you can set "inversion mode" in the menu "On", then the picture on the screen of the camera can be rotated 180°, but characters and images on the screen will be shown in the correct alignment.

### **WiFi Function**

It will be more convenient to operate the camera at a distance of 15 meters using a mobile phone via the WiFi connection

### **High Speed Recording**

The Camera has 720P 120fps, VGA 240fps and 4K 10fps high definition resolution.

## Slow Motion

The video will be displayed in twice as slow as the video frame (60fps video) or 4 times (120fps video).

## Time Lapse

The DVR will take pictures at a certain rate then make a video consisted by the pictures.

## Capture Mode

Under recording press Mode button to take a still picture. It not only can be used by manually capture, but also can be set automatically, which makes it becomes more convenient.

## 2.4G wireless remote control

Waterproof wrist remote controller

## Diving mode

Video's color underwater will be the same as normal environment when set "Diving mode" on.

## 3. Product Accessories:



1. Adaptor



2. Flat & Curved Mount



3. Li-Ion Battery



4. Mount Basic



5. Tripod Mount



6. Two Component Screw



7. USB cable

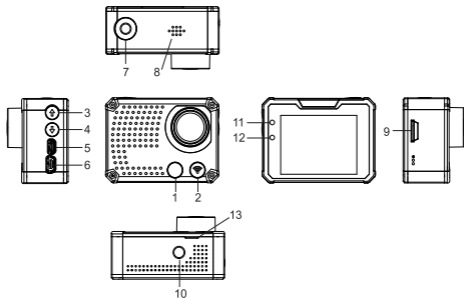


8. Waterproof case



9. Wrist remote controller

## 4. Rollei AC 420 Interface



### Product Accessories:

- |                   |                             |
|-------------------|-----------------------------|
| 1. WiFi indicator | 8. Speaker                  |
| 2. Mode button    | 9. TF card slot             |
| 3. Up button      | 10. 1/4" Tripod Mount       |
| 4. Down button    | 11. Working indicator       |
| 5. HDMI port      | 12. Charging Indicator      |
| 6. USB port       | 13. Opening for front Cover |
| 7. Power button   |                             |

## 5. Button function

### **Power button :**

Short press to turn on/off the Camera;  
Under standby mode short press to start/stop the recording;  
Under Picture mode short press to take a picture;  
Under playback mode short press to start/pause playback;  
Confirm menu setting and time setting.

### **Up button :**

Under standby mode use this button to zoom in;  
Long press to enter/exit the menu;  
In the Menu setting or Playback mode choose the last option or file;  
Increase the digit in the time setting.

### **Down button:**

Under standby mode press this button to zoom out  
Choose the next option or file in the Menu setting or Playback mode;  
Decrease the digit in the time setting.

### **Mode button:**

Short press this button to switch to Video/Picture/Playback Mode.  
Long press to enter WiFi setting;  
During recording short press to capture;  
In time setting to switch Year/Month/Date/Time;  
Start/stop capture when setting capture automatically.

## 6. Operation

### Power on/off

Power on: Short press Power button, screen shows start up picture the blue working indicators will light up, Camera enters standby mode.

Power off: When camera is on, long press Power button to switch the camera off.

### Insert/Remove Battery

The Camera has an exchangeable Li-Ion battery. To insert or exchange the battery please remove the front cover of the camera.

### Battery Charging

Connect the Camera with the USB cable to a USB Port on your computer or a USB Charger. The red light will light up during the charging. Once the battery is full, the red light will switch off. Turn off the Camera when charging to charge the battery faster.

### Video Mode

#### Icons on Video Screen:

1. Record icon
2. Exposure Compensation
3. White Balance
4. Frame rate
5. Video resolution
6. Microphone
7. Remaining recording time
8. Battery indicator
9. Date and Time



## Normal recording

Disable the "seamless" function in the video mode menu to record videos until the memory card is full. Press Power button to start the recording and press the button again to stop the recording.

## Seamless recording (refer to menu setting)

Press Power button to start recording. When the footage of the video reaches the selected recording time (1 minute/3 minutes/5 minutes) the camera will save the footage automatically and continue recording with a new clip.

When TF card is full the camera will overwrite the first footage by time sequence and continue recording. Press Power button again to stop recording, the remaining recording time is shown on the LCD screen.

Notes:

- Seamless cannot be used in the resolution 4K.
- 4k resolution doesn't support Wifi, zoom function and time lapse.
- Please set "capture timing" off when you use "seamless" or "time lapse".

## Picture Mode

10. Picture icon
11. Exposure Compensation
12. White balance
13. Picture size
14. Remaining photos
15. Battery indicator
16. Date and Time



Camera default setting is Video mode. In standby mode press Mode button to enter picture mode, aim at the object you want to take a still picture and press Power button.

### Capture function

1. Capture manually: Press mode button to take a picture under recording when “Capture” in system menu is off.
2. Capture automatically: When “Capture timing” is activated (5s/10s/15s/30s/60s) the Camera will capture still pictures in the selected time interval automatically.

Note:

- 4k resolution does not support capture function.
- Camera does not support capture function when “time lapse” and “slow motion” is on.
- Please set “capture timing” off when “seamless/time lapse/slow motion” will be used.

### Playback Mode

1. Playback icon
2. File number / total number of files
3. Select the file you want to play
4. File Preview
5. File length
6. Date stamp





In standby mode press the Mode button to switch to Playback mode. Press the UP or DOWN button to select the desired video/picture and press the power button to Preview or playback the selected file. Press the Power button to stop the playback!

## **Menu Setting**

With a long pressing of the Up button you can enter the Menu mode. Press the Mode button to switch from the Menu mode to the System settings. Press the Down button for page down, press the Up button for page up. Press the Power button to confirm your selection. Press the Up button for a long time to exit the menu.

Video-, Picture-, and Playback mode does have two menus: Mode menu and System menu. The System menus are always the same. Video-, Bild- und Wiedergabemodus hat zwar zwei Menüs: Modus Menüs und System Menüs. Die Systemmenüs sind immer gleich. Bitte beachten Sie die folgenden Informationen, um die gewünschte Funktion im Menü zu finden:

Please refer to the following Information to find the desired function in the menu:

### **Video Menu:**

Movie Size: 4k 10fps/1440p 30fps/1080p 60fps/1080p 50fps/1080p  
30fps/1080p 25fps/720p 120fps/720P 60fps/720p 50fps/720p 30fps/  
720p 25fps/VGA 240fps

Video quality: super fine / fine / normal

Seamless: Off / 1 minute / 3 minutes / 5 minutes

Slow Motion: Off / Auto

Time Lapse: Off / 0.5sec / 1sec / 3sec / 5sec / 10sec / 30sec / 1min

White Balance: Auto / Daylight / Cloudy / Tungsten / Fluor

Diving mode: Off / On  
Exposure: -2.0, -1.0, +0.0, +1.0, +2.0  
Motion detect: Off / On  
Date stamp: Off / Date / Date & Time

**Picture menu:**

Resolution: 12M / 8M / 5M / 3M  
White Balance: Auto / Daylight / Cloudy / Tungsten / Fluor H  
Exposure: -2.0, -1.0, +0.0, +1.0, +2.0  
Timer shot: Off / 2s / 10s / 30s / 60s / Double  
Periodical Snap: Off / 0.5s / 1s 2s/ 3s  
Photo Burst: Off / 3 photos / 5 photos / 10 photos

**Playback mode menu:**

Please select File type!  
Video  
JPG  
Protect: Single / Protect All / Unprotect All  
Delete: Single / All

**System menu:**

Sounds: Beep (On / Off) / Volume (0/1/2/3) Voice Rec (H/M/L /off)  
Power frequency: 50Hz / 60Hz / Auto  
Power Save: Off / 1 min / 3 min / 5 min  
Date & Time: 02/06/2012 19:17 Year / Month / Day  
Language: German, English, French, Italian, Spanish, Portuguese  
Dutch, Greek, Polish, Czech, Slovak, Danish, Swedish, Norway  
Finnish, Hungarian.

Invert Mode: Off / On

WiFi password: 1234567890

Time Zones: -12 to +12

Time Zone 0 is the Greenwich time, please check your time zone to set the correct time in your camera.

TV out: Yes / No

Remote Pair: Off / On

Format: Yes / No

Capture timing: Off /5s/10s/15s/30s/60s

System: Factory Reset / System Info / Card Info

### Remote Control Description

There are two buttons on the remote controller, press the video button to start/stop the recording. Press the picture button to take pictures under picture mode or capture under video mode.



Please note the remote control contains a CR 2032 Cell Battery. To exchange the battery release the 4 screws on the backside of the remote.

### **Matching the remote control:**

Set "Remote Pair" in the menu to "On", keep pressing the two buttons on the remote control. You can see the blue LED on the Remote control flashing. Release the two buttons after 3 seconds. Remote should be paired now. Press the power button on the Camera to exit the Remote Pair and return to the preview mode. Try to record a video or a picture with the remote control. Please repeat the pairing if remote cannot start recording!

### **Install and use WiFi**

1. Download the App "Rollei AC420" from the App store or from GooglePlay;
2. Set the WiFi password in the Menu of the camera. (The default password is 1234567890).
3. Long press Mode Button to Open WiFi function.
4. Find "Rollei AC420" in the WiFi list of smart phone and enter the password to connect it.
5. When smart phone is connected to the camera, the camera screen will display "Rollei AC420" and the WiFi indicator on the camera will light. If the connection was not successful the WiFi indicator on the camera will keep flashing.
6. Find the APP "Rollei AC420" on your smartphone. You can control the camera via your smart phone.
7. Press Mode Button again to exit the WiFi setting.

**Notes:**

- Before you open the WiFi function, make sure a Memory card is inserted in the camera. Otherwise the WiFi function will not work!
- The effective distance is influenced by environment. The decrease of the WiFi signal and an operation delay are normal circumstance during use.
- The “Power Saving Mode” in mobile should be set to “Off”.
- The “Keep Wi-Fi on during sleep” in the mobile phone should be set to “Always”.

**Playback on PC**

Connect camera with the included USB cable to your PC and switch the camera on. The screen will display: “MSDC”, “PCCAM” or “Working”. Press Up or Down button to choose the desired function. Press the Power button to confirm.

MSDC: Enter the MSDC to check the files.

PCCAM: Camera will be worked as PCCAM.

Working: Camera can be used normally and be powered by the PC.

## 7. Technical specification

Camera Size	61*45*25mm (Not include the lens)
Weight	65g (Not include battery)
Sensor	Sony IMX078 12.4Mega CMOS
Lens	7G+IR F=2.5 f=3.0mm
View angle	170 degree
Resolution	4K 10fps, 1920*1440p30fps1920*1080p 60/50/30/25fps,1280*720p120/60/50/30/25fps 640*480p240fps
Image Size	12M 8M 5M 3M
File formats	JPG/MOV H.264
Memory card	4GB to 32GB (For 4K 10fps, please use Micro SD Card Class 10)
Audio	Built-in microphone / speaker
USB Port	USB 2.0 high-speed interface for charging and data transfer
TFT-Screen	HD 2"TFT 960x480
Seamless loop recording	Optional 1/3/5 minutes

HDMI output	Real-time transmission
White balance	supported
Exposure compensation	supported
Capture	supported by DVR and remote control
Continuous	supported
Time Lapse	supported
Image Invert	supported
Slow Motion	supported
WiFi frequency	2.4GHz-2.4835GHz
WiFi support phone system	IOS6.1 and above, Android 4.0 and above
WiFi function	Image transmission, remote control, settings sync and sharing albums
WiFi distance	15m
Wireless transmission	IEEE 802.11b/g/n
Battery capacity	Exchangeable Lithium-ion (1050 mAh)
Waterproof	40 meters
Remote control frequency	2.4GHz
Remote control waterproof	IP65

Remote control distance	10m in open space
Language	German, English, French, Italian, Spanish, Portuguese, Dutch, Greek, Polish, Czech, Slovak, Danish, Swedish, Norway, Finnish, Hungarian.

## 8. Conformity

The Manufacturer hereby declares that the CE marking was applied to the Rollei AC 420 in accordance with the basic requirements and other relevant provisions of the following CE Directives:

**2011/65/EC RoHs Directive**  
**2004/108/EC Low Voltage Directive**  
**1999/5/EG R&TTE Directive**  
**2006/95/EEC LVD Directive**  
**2009/125/EG EuP Directive**  
**2002/96/EG WEEE Directive**



The EC Declaration of Conformity can be requested from the address specified on the Warranty card.