

# GUARDO 360°



GB

NL

D

FR

USER'S MANUAL

# GB

## DECLARATION OF CONFORMITY

Hereby,  
*Par la présente,*

Company/Entreprise:	TE-GROUP nv
Address/Adresse:	Kapelsestraat 61, 2950 Kapellen - BELGIUM

declare that the following equipment:  
*déclare que le dispositif suivant :*

Product name/ Nom du produit:	Guardo 360° Cam
Product type/Type de produit:	Action Camera WiFi

conforms with the following safety requirements of the directives 2014/30/EU, 2014/35/EU, 2011/65/EU and 1999/5/EC. Conformity is guaranteed by the CE-symbol.

est conforme aux exigences de sécurité suivantes des directives 2014/30/EU, 2014/35/EU, 2011/65/EU et 1999/5/EC. La conformité est garanti par le symbole CE.

This product has been tested against following standards and specifications, applying versions valid in October 2016.

Ce produit a été testé par rapport aux normes et spécifications suivantes, appliquant les versions valides en Octobre 2016.

EN55022: 2010	ETSI EN 300 328 V1.9.1 (2015-02)
EN55024: 2010/A1:2015	ETSI EN 301 489-1 V1.9.2 (2011-09)
EN62479: 2010	ETSI EN 301 489-17 V2.2.1 (2012-09)
EN60950-1: 2006/A2:2013	REACH: EC 1907/2006
EN60529: 2013	



Joseph van Oosterum, CEO TE-Group NV, Kapellen, December 1st 2016  
Authorized Signature

----- Manual/Guardo 360° Cam/ 12-2016/V1 -----  
Copyright © GUARDO

# ILLUSTRATIONS



# PARTS AND FUNCTIONS

## **CAMERA** See illustration I

1. Power / Mode Button
2. Power / Charge indicator
3. Dual Lens
4. Record / OK Button
5. Wifi / Menu button
6. Wifi indicator
7. LCD display
8. Reset button
9. Recording indicator
10. Micro USB port
11. Micro SD card slot (*Micro SD card optionally available on [www.guardo.be](http://www.guardo.be)*)
12. Micro USB charging cable
13. RF Remote Control
14. Waterproof case
15. 2 x flat surface mount + acc.
16. 2x curved surface mount + acc.
17. Gorilla Tripod
18. Protection EVA Bag
19. Camera carry bag
20. Lens cloth
21. Tripod/screw thread adapter 1/4"
22. Curved surface mount + acc.

## **LCD SCREEN**

### **A Video Mode**

1. Video mode
2. Video timer: displays hours and minutes that still can be used for recording
3. Battery capacity
4. Date
5. Time



### **B Photo Mode**

1. Photo mode
2. Photo counter: displays number of photos left to capture
3. Battery capacity
4. Date
5. Time



### **Note:**

The icons may vary according to the status of the camera.

## CHARGING THE BATTERY

**Note: Make sure the battery is fully charged before first use!**

**To charge the battery:**

1. Make sure the Guardo 360 Cam is **turned off**.
2. Connect the micro USB cable (12) to the Micro USB Port (10) of the Guardo 360 Cam.
3. Connect the other end of the micro USB cable (12) to the USB port of your computer or the optional Guardo USB home charging device with a 5V 1A (1000 mA) output power, optionally available on [www.guardo.be](http://www.guardo.be).
4. During charging, the blue Power / Charge indicator (2) will light continuously. When charging is completed the blue LED indicator (2) will turn off.

**Note:**

- The camera can be used while charging.
- When the battery runs out of power, the Guardo Action 360 Cam will turn off but will save the part that was recorded until the camera turned off.
- When the camera is ON but not in use it will automatically turn off after 5 min. This is the default setting and can NOT be changed in the camera's menu.
- The delivered micro USB cable (12) offers fast and efficient charging but is also used for synchronizing and data transfer with your PC.
- Extra charging devices/accessories can be ordered from our website: [www.guardo.be](http://www.guardo.be).
- If the camera is not used for a long time, periodically recharge it to ensure battery performance.

## USE THE WATERPROOF HOUSING

Place the camera in the waterproof housing:

*Open waterproof case*

*Place camera*

*Close backdoor*

*Grasp arm & Click into place*



### IMPORTANT! USAGE FOR PREVENTING WATER LEAKAGE

1. **BEFORE EVERY USE:** check carefully that the waterproof housing is securely locked onto the camera and that there are no 'objects' (such as sand or a lock of hair) in between the rubber strap and the housing, as this could cause leaking.
2. The rubber strap is the most important part of the waterproof housing as it is the element that keeps your camera waterproof. The rubber strap can be removed to clean it in fresh water. Do not use a damp cloth to dry, but dry it by shaking it.
3. Whenever used in salty water, **ALWAYS** clean the plastic waterproof housing afterwards in non-salt water and dry it. This is to avoid corrosion or to prevent dust/sand/... building up in the rubber seal.

### !ATTENTION!

If you do not consistently perform/execute the above mentioned tips, water damage may occur and can result into the camera being damaged/destroyed. The warranty does NOT cover water damage caused by improper use by the user!

## WATERDROPS & CONDENSATION

Regularly check the lens to see if waterdrops or condensation/fog have appeared as these may be shown on your footage.

To remove/avoid waterdrops and condensation/fog, these tips might help :

- Spit or lick the port or housing lens.
- Apply a water repellent and anti-beading/ anti-fog coating or wax (such as 'RAIN-X).
- Make sure the inside of the housing and camera is as dry as possible (e.g. dry hands, no sweat) to prevent fog/condensation.
- Don't leave the camera in the direct sun or near heat and don't leave it ON (generating heat) when not necessary.
- Open the fogged camera housing and carefully wipe off the fog inside, then close it again.
- Try to avoid too large temperature differences as these may cause condensation/fog.

Anti-Fog inserts are optionally available on [www.guardo.be](http://www.guardo.be).

**Note:** 'Muffled' sound is inevitable when using the camera with the waterproof housing.

## MOUNTING THE CAMERA USING THE DELIVERED MOUNTS

Attaching the camera to any mount, is always done in the same way:



1. Remove the screw from the mount.
2. Place the camera on the mount with the screw.
3. Rotate/Tilt the camera into the desired shooting angle and fasten with the tightening screw.

## MOUNTS WITH ADHESIVE TAPE

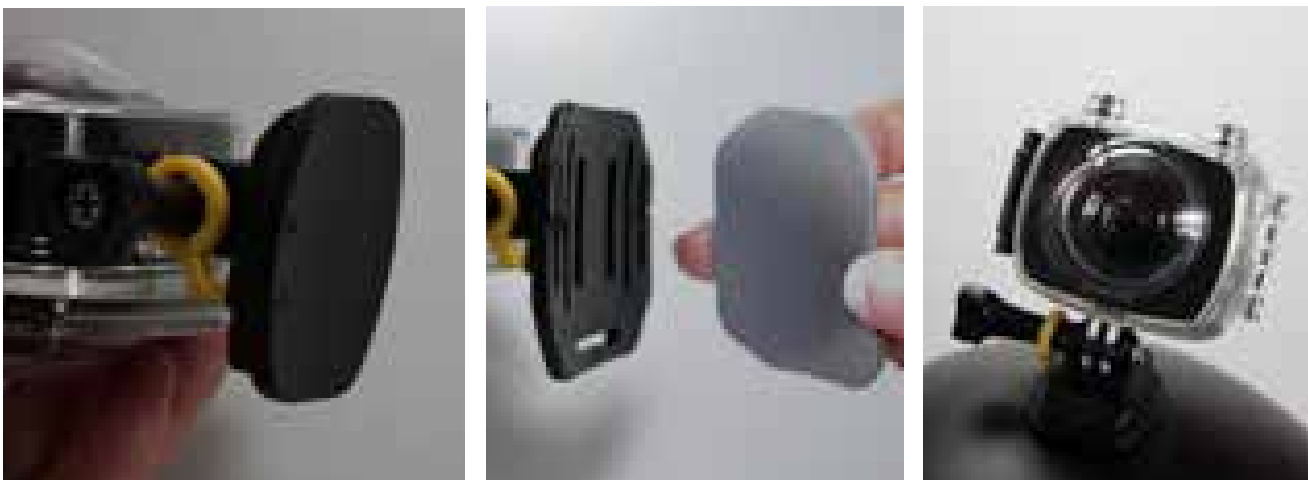
### How to apply the adhesive tape (IMPORTANT!)?

1. **Apply the tape 24 hours before use in a room temperature around 21°C**
2. Make sure the surface you want to apply the tape on is smooth: the tape will not adhere properly on an embossed or porous surface.
3. **Clean and dry the surface before application.** Any cleaner that will not leave a film or oily surface can be used!
4. Press the tape entirely and firmly into place!

### How to remove the adhesive tape?

The adhesive tape can be removed by using a hairdryer: the heated air will loosen the adhesive part. Remove the residue with a cleaner or with alcohol.

### A. CURVED SURFACE MOUNT



Stick the 3M VHB tape to either one of the curved surface mounts (16 or 22) and place/stick the mount on a curved surface.

**Note:** This mount can also be used with the remote control's strap!



## B. FLAT SURFACE MOUNT



Place the mount on a flat surface, such as a snowboard, using the 3M VHB tape .

## OTHER MOUNTS

### A. GORILLA TRIPOD

This small flexible tripod allows you to attach the Guardo camera to a variety of objects like trees, fences... thanks to its bendable legs. The legs can also be shaped so that they stand firmly on any surface.



### B. TRIPOD/SCREW THREAD ADAPTER 1/4"

This Tripod/Screw thread adapter mount provides stable and secure mounting through a stronger vertical fixation point and allows you to shoot extra crisp imagery. Simply screw the adapter into the waterproof casing of your camera and plug in the other end into any Guardo Mount of your choice.

## GETTING STARTED

### PLACE MICRO SD CARD

Make sure a Micro SD card of 32 or 64 GB (preferably from a known A-brand), Class 10 (UHS-I) with a minimum of 30 MB/s writing speed (optionally available at [www.guardo.be](http://www.guardo.be).) is inserted into the Micro SD Card slot (11) before you start using the Guardo 360 Cam.



Make sure you format the Micro SD card before first use! You can format the micro SD card via:

- the App (see 'Full operation from Guardo 360 App')
- the camera's menu (see 'Menu & System Settings')
- your computer (see 'Connecting to a computer' to find out how)

Place the micro SD card into the Micro SD Card slot (11) and press gently with your finger nail so that it clicks into place. (To remove the Micro SD-card: press the card gently again with your finger nail so that it pops out).

#### Note:

- When there is no micro SD card inserted, the camera cannot be used!
- Make sure the capacity of your micro SD card does not exceed 64 GB, Class 10 (UHS-I).



### TURNING ON/OFF

- **To turn the Guardo 360 Cam ON:** Press the Power/Mode Button (1) for 2/3 sec. to turn the camera on. The LCD display (7) will turn ON and show "360 Wifi". The red indicator (2) will flash and you will hear a short beep indicating that the camera is turned on.
- **To turn the Guardo 360 Cam OFF:** Press the Power/Mode Button (1) again for 2/3 sec. to turn the camera off. The LCD display (7) will turn OFF.

**Note:** The Guardo 360 Cam will turn off automatically when it is not being used for 5 minutes. This is the default setting and can NOT be changed.

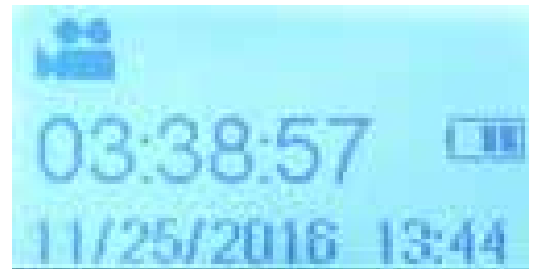
## CHANGE MODE

The camera can be set into 2 different modes: video mode & photo mode. After having turned on the camera, press the Power/Mode Button (1) to switch between the different modes:

- **Video mode:** Record videos. The video camera icon  will be shown in the upper left corner of the display. Video mode is selected by default when turning on the camera.
- **Photo mode:** Make photos. The photo camera icon  will be shown in the upper left corner of the display.

## DEFAULT SETTINGS

The Guardo 360 Cam can be set (resolution, video mode, camera mode, ...) according to the purpose for which it is used and according to your own preferences! When the camera is turned on for the 1st time, the following information will appear on the LCD display, this is the default setting:



## CHANGE MENU SETTINGS & SYSTEM SETTINGS

The LCD display on top of the camera makes it able to control the camera.

### Change menu settings

How? In video/photo mode:

- **Long press** the Wifi / Menu button (5) to open the menu.
- Use the Wifi button (5) to navigate through the menu.
- Press the Record / OK button (4) to open the submenu.
- Use the Wifi button (5) to navigate through the submenu.
- Press the Record / OK button (4) to select the desired setting.
- To close the menu, long press the Wifi / Menu button (5).

For example: to set 'Power Save' to '1 min.' in video mode, please follow these steps:

- Turn the Guardo 360 Cam ON.
- **Long press** the Wifi / Menu button (5).
- Press the Wifi Button (5) until 'Power Save'.
- Press the Record Button (4).
- Press the Wifi Button (5) until '1 min.'
- Press the Record Button (4) to select '1 min.'
- Long press the Wifi button (5) to exit the menu.

### Menu Video/Photo mode :

<b>Power Save</b>	
<i>Powers off automatically to save battery</i>	<b>OFF</b>
	<b>1 min.</b>
	<b>3 min.</b>
	<b>5 min.</b>
<b>Date &amp; Time</b>	
	YY/MM/DD
	MM/DD/YY
	DD/MM/YY
<b>Language</b>	
English, Français, Nederlands, Español, Italiano, Português, Deutsch, Čeština, Polski	

<b>FactoryReset</b>	
<i>Reset to factory default</i>	<b>No</b>
	<b>Yes</b>
<b>System</b>	
	<b>System Info.</b>
	<b>Card Info. (from SD card)</b>
<b>Format</b>	
<i>Deleting and formatting SD card</i>	<b>No</b>
	<b>Yes</b>

## SETTING DATE AND TIME

To set correct date and time, please follow these steps:

- **Long press** the Wifi / Menu button (5).
- Press the Wifi Button (5) until 'Date & Time'.
- Press the Record Button (4).
- Adjust date and time by using the Wifi Button (5) (change digits) and the Power / Mode Button (1) (swap to month, date, hour, ...).
- Long press the Wifi button (5) to exit the menu.

## OPERATION

The Guardo 360 Cam records video's & makes pictures from both lenses and combines them into 1 single file using the Guardo 360 App or the Guardo 360 PC software.

### **Start video recording:**

Make sure the Guardo 360 Cam is turned on and in Video Mode.

Press the Record Button (4) once. The red LED indicator (9) will start flashing slowly and a timer will appear = start of recording.

### **Note:**

Shooting view angles are slightly different in different working modes of the video camera.

### **Stop video recording:**

Press the Record Button (4) once again to stop recording. The red LED indicator (9) and the timer will turn off.

### **Note:**

When the memory card is full, the Guardo 360 Cam will automatically stop recording. Your recordings will be saved, before the camera turns off! When 0:00 shows on your screen, this indicates your SD card is full and recording is no longer possible. You need to empty or format your SD card (via App, computer or camera) again. This of course **after** having copied/saved your photos/footage from the card to another device such as your computer's hard disk. See 'Format SD Card'.

When recording continuously over a longer period of time (e.g. 2 hours non-stop), the footage saved on your Micro SD Card will be split in different sections, 1 section = approx. 4GB/45 minutes max.

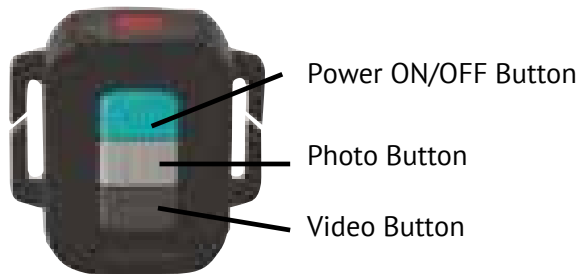
### **Make a photo:**

Make sure the Guardo 360 Cam is turned on and in Photo Mode.

Press the Record Button (4) once. You will hear a beep and the red LED indicator (9) will light up once = taking a photo

**Note:** Only when you have heard the beep and the red LED Indicator (9) has flashed the photo was really taken.

## OPERATION FROM REMOTE CONTROL



The remote control can be used for video recording, for taking pictures and for turning the Guardo Action 360 Cam ON and OFF.

1. **Turn ON:** **Press and hold** the Power Button to turn the camera on (**wait** till the red LED is OFF during press). Wait a while for the camera to start up.
2. **Take a photo:** Press the Photo Button once to make a photo.
3. **Start video recording:** Press the Video Button once to start recording.
4. **Stop video recording:** Press the Video Button once again to stop recording.
5. **Turn OFF:** **Press and hold** the Power Button to turn the camera off.

### Note:

- Max distance = 15~25 meters (depends on surrounding & location).
- When using the remote control, the camera will shoot according to the last (manually) set settings.

## FULL OPERATION FROM APP

### INSTALL THE APP

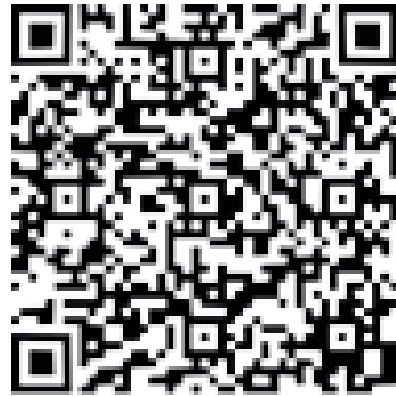
Search for the App on your smartphone or tablet:

- For Android users: Search for 'Guardo 360 Cam' in Google Play or scan this QR code:
- For Apple iOS users : Search for 'Guardo 360 Cam' in the App Store or scan this QR code:

#### ANDROID



#### APPLE



Finish the installation so that the Guardo 360 Cam App icon appears on your smartphone or tablet.

### ENABLE WI-FI ON THE GUARDO 360 CAM

Press the Wi-Fi Button (5) on your Guardo 360 Cam to enable Wi-Fi. **Make sure the battery is fully charged.** 'Wi-Fi ON' will appear on the LCD display and the red LED indicator (6) will start flashing.

## MAKE A WI-FI DIRECT CONNECTION BETWEEN GUARDO 360 CAM AND YOUR SMARTPHONE/TABLET

- Enable Wi-Fi on your smartphone or tablet and let it search for the Wi-Fi Direct network 'Guardo 360\_xxxxxx'.
- Select this Wi-Fi Direct network. When you connect it the first time, you need to enter the password: "9876543210". 'Connected' will now appear on the display of your smartphone or tablet.
- The red LED indicator (6) will no longer flash but will stay red during connection.
- When connection is lost, the camera will try to auto-reconnect. If not, then manually re-connect again.

### Note:

- When the battery capacity is low, Wi-Fi cannot work. Please recharge the battery first!
- Wi-Fi range is up to 15~25 meters (depends on surroundings & location).
- During Wi-Fi connection and connection with a smartphone/tablet, the camera will turn warm. This is normal and not a malfunction!
- A Micro SD Card needs to be inserted before you can make a Wi-Fi connection.
- Wi-Fi will automatically be disabled on your Guardo 360 Cam when no device (smartphone/tablet) is connected within 2 min. to save battery power.
- The password and network name can be changed by the user in the App.
- Date/Time will be set automatically by App and device.

## OPERATION

Before you start using the app make sure a micro SD card is inserted into the camera!

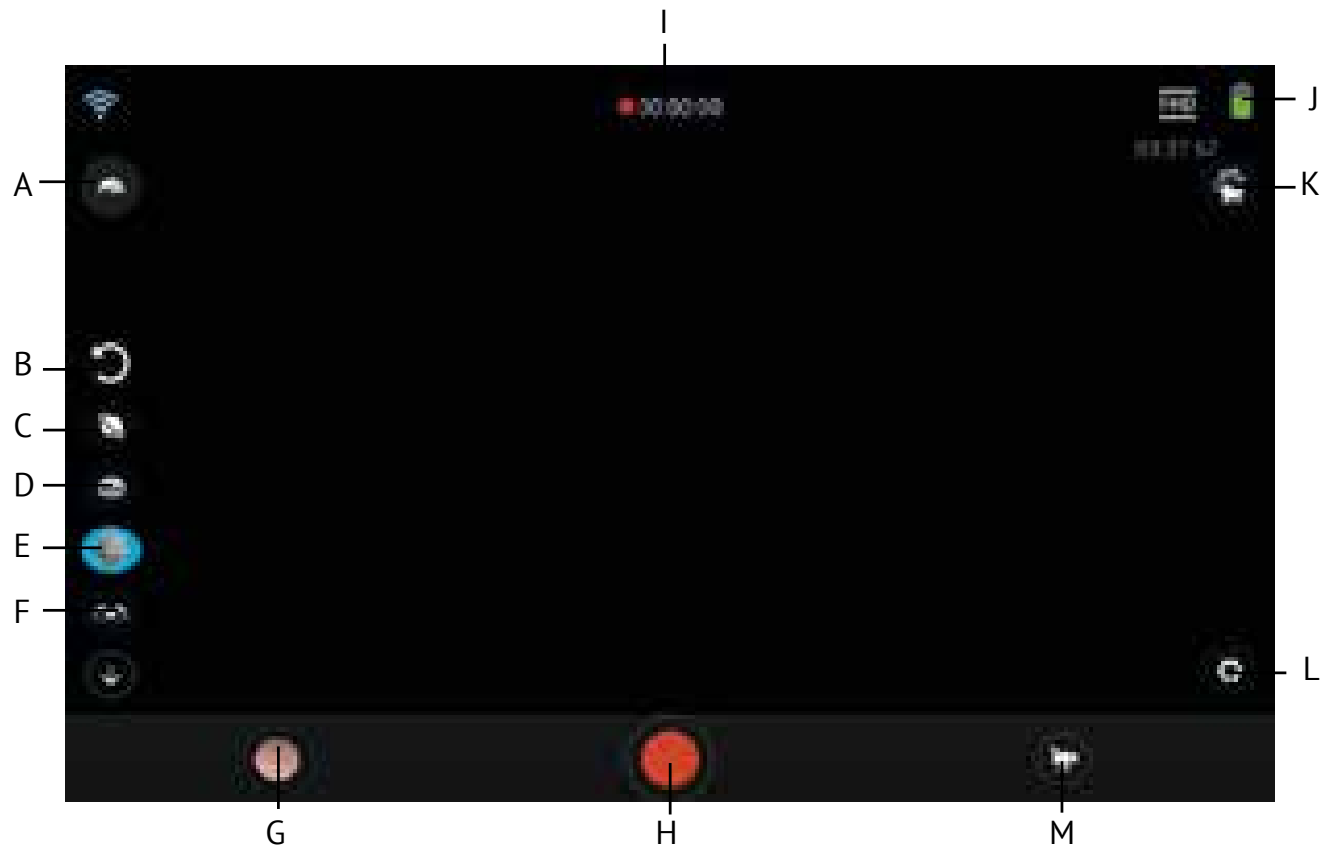
Press the App icon on your Android or Apple iOS device. After first setup of the camera with the App, you need to press the Camera icon  at the top right corner to connect the Guardo 360 Cam to your device.






Your device will make a connection with the camera and a live video preview will appear!  
The App is default set to video mode and so this is the start screen (Android as example):

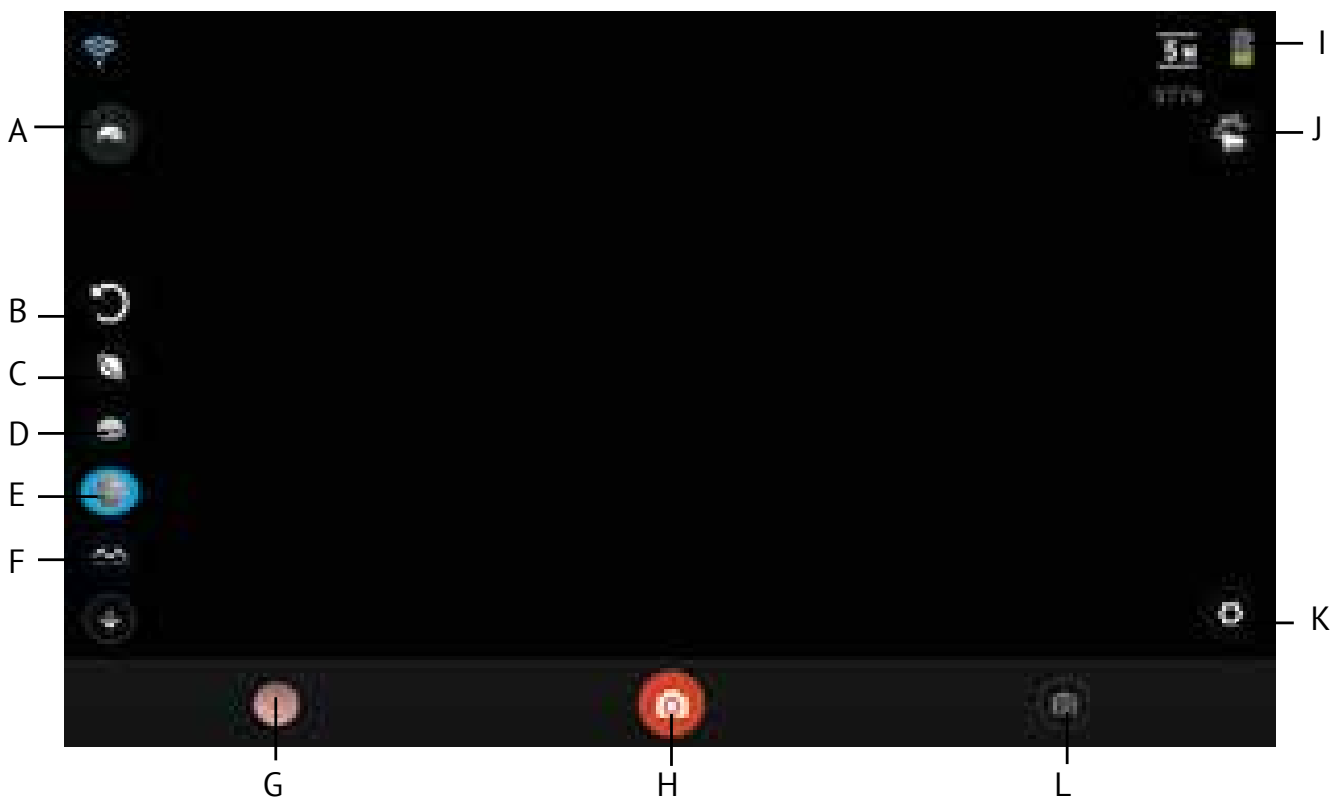
- A. Invert view
- B. Go back to previous setting
- C. World mode
- D. Explore mode
- E. Dome mode
- F. VR mode
- G. Gallery
- H. Record button
- I. Record duration
- J. Battery status
- K. Gyro Mode: If this function is activated and supported by your mobile phone, you can move your phone around and explore all viewing directions.
- L. Settings
- M. Video mode






To use the App for making photos, press the  icon. The start screen for making photos will appear (Android as example):

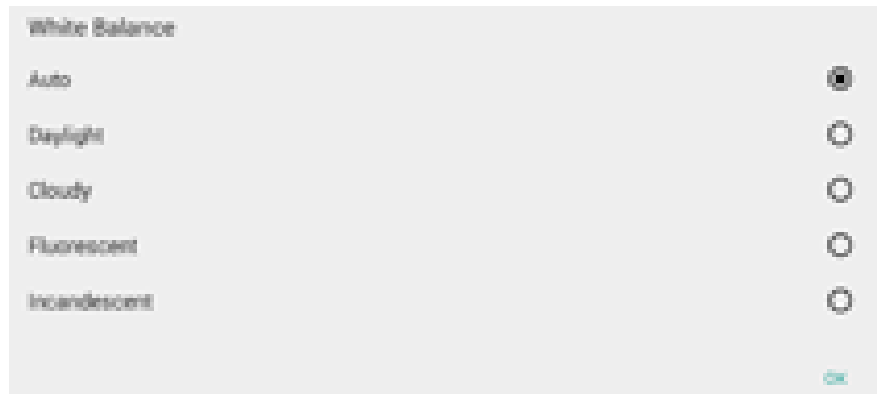
- A. Invert view
- B. Go back to previous setting
- C. World mode
- D. Explore mode
- E. Dome mode
- F. VR mode
- G. Gallery
- H. Capture button
- I. Battery status
- J. Gyro Mode: If this function is activated and supported by your mobile phone, you can move your phone around and explore all viewing directions.
- K. Settings
- L. Photo mode




## ADJUST GENERAL SETTINGS FOR VIDEO/PHOTO

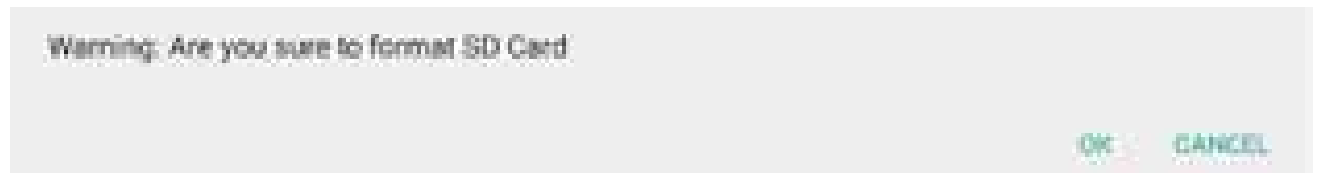
### SET WHITE BALANCE

Press the Settings icon  on your start screen and press 'White Balance'. You can now choose from:



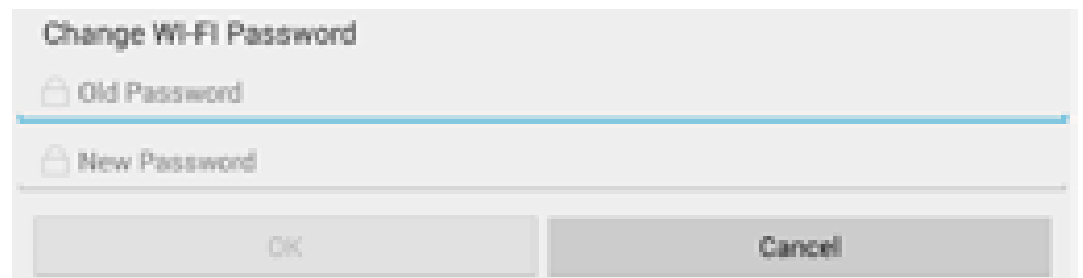
### FORMAT SD CARD ON CAMERA

Press the Settings icon  on your start screen and press 'Format'. Press 'OK' to format the Micro SD Card in your camera.



### CHANGE WI-FI PASSWORD



Press the Settings icon  on your start screen and press 'Change wifi Password'.



## SET UPSIDE DOWN RECORDING

Press  on your start screen to invert the view. The icon will be turned upside down to indicate the view is inverted.


## MAKE VIDEO RECORDINGS

- **Start video recording:**  
Press the Record Button  on your device once. The Record Button will start flashing slowly = start of recording.  
**Note:** Depending on your device's model/type there could be a delay between the camera and the device. The recording will be OK and normal.
- **Stop video recording:**  
Press the Record Button  once again to stop recording. The Record Button will stop flashing = stop of recording.

### IMPORTANT!



After you started recording, you can turn OFF the wifi connection on phone/tablet and close the App. The camera will keep recording till it stops or till the SD card is full.

## MAKE PHOTOS



Press the Photo Button  on your device once. The Photo Button will flash once and you will hear a snapshot sound indicating that the photo will be taken. As soon as you heard a beep coming from the camera and saw the red LED on your camera flash, the shot was made.

**Note:** Depending on your device's model/type there could be a delay between the camera and the device. The recording will be OK and normal.



## VIEW/SELECT/DELETE/... VIDEOS AND PHOTOS

Press . The recorded videos and photos will appear in thumbnail icons. The recorded videos are marked with a .  
Simply press the photo / video to view it full screen.

### Download photos and/or videos:

- Select the video(s) and/or photo(s) you wish to download by check marking them .
- Press : The selected video(s)/photo(s) will now be downloaded to the photo/ video album of your Apple iOS or Android device.





### Delete photos and/or videos:

- Select the video(s) and/or photo(s) you wish to delete by check marking them: .
- Press : The selected video(s)/photo(s) will now be deleted.

**Note:** For Android users only: in case you cannot play the video file we suggest using the free app 'Android Video Player' or another compatible player.

## PLAYBACK MODES

There are different playback modes you can select to watch your footage.

1. **WORLD MODE** : Creates a world Full view that you can rotate using the gyroscope or by swiping.
2. **DOME MODE** : Creates a sphere that you can rotate using the gyroscope or by swiping.
3. **EXPLORE MODE** : Allows you to pan around in 360° using the gyroscope or by swiping.
4. **VR MODE** : Splits the footage in to stereoscopic vision, so that you can view it using VR viewers/glasses.

## CONNECTING TO A COMPUTER

If you want to watch, play, share, edit, ... the videos and photos you made, you can do so by connecting the Guardo 360 Cam to your computer!

- Connect the micro USB cable (12) to the Micro USB Port (10) of the Guardo 360 Cam.
- Connect the other end of the micro USB cable to the USB port of your computer.
- Turn the Guardo 360 Cam ON.
- 'MSDC' will now appear on the display.
- On your PC a pop-up "removable disk window" (e.g. 'D:;E:; ...') will appear or you will find an "extra disk" (e.g. 'D:;E:; ...') under 'My Computer' or 'Explorer' in case you have a Windows PC or in 'Finder' in case you have a Mac (It can take some time before the window appears).

The following folders will be shown:

- JPG
- VIDEO

Copy/move the files to your hard disk or external disk to open, play, share or edit them!

**Note: Cyclic recording and frequent recording/deleting operations may leave data fragments in the SD card, causing failure to file recording or saving. To solve this problem, just back up the data on an external storage and format the SD card.**

**Format Micro SD card:** you can use your computer to format your Micro SD card inside the camera! On a Windows computer: Right-click the removable disk and choose 'format'.

**Format Micro SD card on Mac:** Open the 'Disk Utility' program: you can now format your Micro SD card by clicking it in the left-hand pane and then clicking the 'Erase' tab.