

Dear Customer:

Congratulations on purchasing a high quality Rollei product. You have chosen a modern Sunglasses Cam with excellent technical equipment and related accessories that is particularly easy to use. Please read all the instructions carefully and thoroughly. Pay particular attention to all safety instructions.

You have a two year warranty on the device.

If the Sunglasses Cam should ever break down, you will need the enclosed warranty card and your purchase receipt. Store them carefully with the operating instructions. When passing the device on to a third party, be sure to include the instruction manual.

1. Package Contents

Unpack the Sunglasses Cam carefully and check that all the items listed below are included:

1. Rollei Sunglasses Cam
2. 4 GB microSD memory card, including SD card adapter
3. USB cable
4. 2 additional interchangeable lenses
5. Cleaning cloth
6. Bag
7. Warranty and service documents

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3. Notes Regarding Risks, Safety and Warnings

Handling the Sunglasses Cam and its accessories improperly poses a risk to yourself and others, or the Sunglasses Cam can be damaged or destroyed. Therefore, please read and strictly observe the following **notes regarding risks, safety and warnings**.

Purpose

- This Sunglasses Cam contains a video camera that is intended for recording video clips. It is designed for personal use and is not suitable for commercial use.

Risks to children and persons with limited abilities for using electronic devices

- The Sunglasses Cam, its accessories and packaging are not toys for children. Keep children away from them. Among other things, there are risks of electric shock, poisoning and suffocation.
- The Sunglasses Cam and its accessories may not be used by children and persons with limited ability to operate devices. The Sunglasses Cam may be used only by persons who are physically and mentally able to use them safely.

Risk of electric shock due to moisture and humidity

- The USB cable and the USB power adapter (not included) must not be exposed to dripping or splashing water. In addition, containers filled with liquids, such as vases or glasses, must not be placed on them or in their immediate vicinity. There is a risk of fire and electric shock.
- Do not charge the Sunglasses Cam near water. There is a risk of fire and electric shock. Do not charge the Sunglasses Cam in areas with high levels of humidity, steam, smoke or dust. There is a risk of fire and electric shock.

Electrical hazard

- If foreign objects or a liquid has entered the Sunglasses Cam, turn it off. Let everything dry thoroughly. Otherwise, there is a risk of fire or electric shock.
- If the housing of the Sunglasses Cam has been damaged, turn the cam off. Otherwise, there is a risk of fire or electric shock.
- The Sunglasses Cam must not be taken apart, modified or repaired. There is a risk of fire and electric shock.

Heat damage – fire hazard

- Do not place the Sunglasses Cam in a location where the temperature may rise significantly (e.g. in a car). The case or internal parts could be damaged as a result, which can in turn cause a fire.
- Do not wrap the Sunglasses Cam in anything and do not place it on textiles. This could cause heat to build up in the Sunglasses Cam, whereby the housing can deform and pose the risk of fire.

Risks due to the use of the lithium-ion battery

The battery is integrated in the device and cannot be replaced. There is an explosion hazard if the battery is improperly removed.

Injuries and property damage

- Do not use the Sunglasses Cam while walking or driving. You could trip or cause a traffic accident.
- Do not place a source of naked flame, such as a lighted candle, on or near the device.
- Damage to the electronics or the case that has been caused by external influences such as impacts, dropping, or similar are not covered by the warranty. Therefore repair or replacement in such cases must be paid for by the customer.

Notes regarding the Sunglasses Cam

- The Sunglasses Cam is suitable for use only in moderate climates.
- The Rollei Sunglasses Cam is a Class 1 optical device.

The protective lenses provided are not suitable for looking directly at the sun.

Please observe the cleaning instructions in Section 7 on page 17.

4. Welcome to Your Sunglasses Cam

4.1. Front view



On/Off/Record

Video camera

4.2. Controls

Working LED

Reset button

Microphone

Memory card slot



Power LED



USB port

4.3. Changing the lenses

You can choose which of the included lenses you want to use. Remove an already installed lens with a quick downward pull. Then place the new lens in the guides on the left and right and push it as shown below until it clicks into place.



5. Descriptions of Functions

5.1. Inserting a memory card

Before you can record videos with the Rollei Sunglasses Cam, you need to insert a microSD or microSDHC memory card.

To do this, open the cover of the memory card compartment on the bottom of the right earpiece. Insert the microSD/SDHC memory card into the card slot (see the illustration) and push the memory card in until it clicks into place. Then close the cover of the card compartment.

To remove the memory card, press it once again; it will then pop out slightly from the compartment. When the memory card is full, the blue "Record" LED lights up for about 2 seconds when you turn on the cam; then the Sunglasses Cam will switch off.



Note:

- microSD and microSDHC memory cards up to 32 GB are supported.

5.2. Charging the battery

To charge the built-in lithium-polymer battery, you must connect the Sunglasses Cam to the USB port of a computer or a power adapter with a USB output using the mini-USB connector.

Open the cover of the mini-USB port on the bottom of the right earpiece and insert the included mini-USB cable. Once you connect the other end of the USB cable to a computer, charging begins. During charging, a red indicator LED on the inside of the right earpiece lights up. When the battery is fully charged, the indicator LED turns green.

The charging time for a fully discharged battery is approx. 1-2 hours (when using a USB connection with 500 mA). The first charging process can take up to 4 hours. A battery charge will let you use the Sunglasses Cam for approximately 60 minutes.



5.3. Switching the Sunglasses Cam on and off

To turn the Sunglasses Cam on, press the On/Off button briefly. The indicator LED on the inside will then go green and you will hear 4 beeps.

When the Sunglasses Cam is turned on, video recording automatically starts.

During recording, the blue Record LED also flashes.

If you turn on the Sunglasses Cam with no card installed, the indicator LED will go red briefly and the Sunglasses Cam will switch itself off after a long beep.

To stop recording and shut down the Sunglasses Cam, press and hold the On/Off button for about 3 seconds. The current video recording will be saved, then the Sunglasses Cam will switch off.



5.4. Setting the date and time

To save video files with the current date and time, a clock can be set in the Sunglasses Cam.

To do this, use a text editor on your computer to create a text file named "settime.txt" in the start-up folder of the memory card and enter the following values:

YYYY MM DD hh mm ss

where: Y = year, M = month, D = day, h = hour, m = minute, s = second

Make sure that exactly one space is entered between the values.

Example: To set the camcorder to March 1, 2013, 10:00 AM, enter the following line of text:

2013 03 01 10 00 00

Re-insert the memory card into the Sunglasses Cam. The next time the Sunglasses Cam is switched on, the date and time are transferred and the "settime.txt" is subsequently deleted from the memory card.

5.5. Changing the settings

You can change various camera settings. To do so, please connect the camera to your computer using the USB cable. The camera appears as a removable drive on your desktop. Open the removable drive by double clicking it with the left mouse button. Now open the document "Setting.txt". A text file shows you the default settings of the camera:

UPDATE:N

AWB:0

SAT:100

QUALITY:0

LIGHTFREQ:1

VideoSwitch:0

EV:6

CTST:100

SHARPNESS:100

AudioVol:1

RTCDisplay:0

BuzzerAlert:3

You can make the following changes:

- **UPDATE:**
To ensure that the changes are transferred the next time you start your Sunglasses Cam, please change this value to "Y" (Yes). Y = changes are applied, N = changes are not applied.
- **EV (Exposure Value):**
Enter a value between 1-21. The default is 6. To make the images brighter, enter a value between 11 and 21; to make the images darker, choose a value of 1 to 9.
- **AWB (Auto White Balance):**
Adjust your Sunglasses Cam to the current light situation in order to avoid incorrect colours when recording.
0 = automatic white balance (default), 1 = sunlight, 2 = cloudy, 3 = fluorescent light, 4 = light bulb
- **CTST (Contrast):**
Can be set to values from 1 to 200. Default = 100. Increase this value for a stronger contrast; choose a lower value for less contrast.
- **SAT (Saturation):**
Can be set to values from 1 to 200. Default = 100. Increase this value for stronger colour saturation; choose a lower value for less colour saturation.
- **SHARPNESS:**
Can be set to values from 1 to 200. Default = 100. Increase this value for a sharper picture; choose a lower value for less sharpness.
- **QUALITY (Video quality):**
Adjust the video quality of the Sunglasses Cam. 0 = high quality (default), 1 = medium quality, 2 = low quality

- **AudioVol (Audio volume):**
Record your videos with or without sound.
1 = audio on (default), 0 = audio disabled
- **LIGHTFREQ (Light frequency):**
0 = 60 Hz, 1 = 50 Hz (default)
- **RTCDisplay (Real time clock display):**
Here you can choose whether the date and time you have set are displayed as a time and date stamp on the video (note that you cannot delete it from the video later!)
0 = disabled (default), 1 = enabled
- **VideoSwitch (Resolution)**
You can record videos in two different resolutions:
0 = 1080P (Full HD, default), 1 = 720P
- **BuzzerAlert:**
Adjust the tone volume of your Sunglasses Cam.
0 = off, 1 = loud, 2 = medium 3 = quiet (default)

Save your settings and changes again in the "Setting.txt" file and make sure that this file is stored on the removable disk. After turning on your Sunglasses Cam, the new settings are applied automatically.

5.6. Resetting the Sunglasses Cam

If the Sunglasses Cam is not functioning normally, hangs during operation or cannot be switched off normally, you should reset the Sunglasses Cam. This is done by pressing the RESET button on the inside of the right earpiece for about 3 seconds with a pointed stylus.

The Sunglasses Cam should switch off. It should then be possible to switch it on normally again.



5.7. Connecting to a computer

System requirements

1. Operating systems: Microsoft Windows® ME / 2000 / XP / VISTA / Windows® 7 / 8; Mac OS 10.5; Linux
2. Processor: Intel® Pentium 2 G Hz or equivalent
3. USB 1.1 or USB 2.0
4. CD-ROM/DVD drive
5. 10 GB or more free space on the hard disk
6. RAM: 1 GB or more

Open the cover of the mini-USB port on the bottom of the right earpiece and insert the included mini-USB cable. Once you insert the other end of the USB cable into the computer, a new removable drive is set up there.

On this drive, you can find the data from the memory cards used in the Sunglasses Cam in the "DCIM" folder. Now you can copy the video files to the hard disk of the computer and, if you wish, delete them from the memory card. While the device is connected to the computer, the indicator LED lights up green.



Note:

- The Sunglasses Cam is set up on the computer as a removable disk drive. The drivers required for this are always present on the operating systems mentioned above.
- Among others, the free VLC player program for Windows and Mac can be used to play the video files.

6. Conformity

This device has been tested in accordance with Part 15 of the FCC regulations and it has been confirmed that the limit values for a Class B digital device have been satisfied. These limits are designed to provide reasonable protection from harmful interference when installed in a residential community. If this device is not installed in accordance with the instructions, television, radio and wireless devices may be susceptible to interference.

Operation of this device is permitted if both of the following two conditions are met:

- (1) This device does not cause harmful interference
- (2) This device must accept the influence of interference. This includes interference that may cause improper functioning or malfunctions.

If this device causes interference to radio and television reception – this is determined most easily by switching the device on and off – the user should try to eliminate the interference using the following measures:

- Turning the receiving antenna in a different direction or relocating it.
- Increasing the distance between the device and the receiver.
- Consulting the dealer or an experienced radio/TV technician.

The CE mark has been affixed to this device in accordance with the following European directives:

RoHS Directive 2011/65/EC

EMC Directive 2004/108/EC

The EC declaration of conformity can be requested from the address listed on the warranty card.



7. Maintenance

To clean the Sunglasses Cam frame and the accessories that are included, do not use harsh cleaners such as alcohol, paint thinner, etc. Clean the components of the system as needed with a soft, dry cloth.

Always clean the lenses with a normal lens cloth.

Avoid very dusty environments.

When not in use, always store the lenses in their protective bag.

8. Disposal

Dispose of the packaging in an environmentally friendly manner and in the provided collection containers. Batteries should not be disposed of in household waste. The consumer is legally obliged to return used batteries to the municipal collection points or to a place where batteries are sold. Batteries are therefore provided with the adjacent symbol.

Your product is labelled with the symbol shown to the right.

It means that used electrical and electronic products are not to be disposed of in household waste; instead, they must be placed in a separate recycling system. Proper disposal ensures that your used device is collected, treated and used correctly.

This prevents potential negative effects to the environment and health due to improper disposal. Dispose of the Sunglasses Cam and its accessories according to the current legal regulations.

Information on this can be found by contacting the relevant municipal departments.



9. Technical Data

Technical Data	
Image sensor	5 megapixel CMOS sensor
Video format	MOV (H.264) 1080 p (1920x1080/30fps) 720p (1280x720/60 fps)
Shooting angle	63 degrees
Memory	slot for TF memory card up to 32 GB
Audio recording	stereo
Ports	USB 2.0
Recording time	up to 60 minutes with fully charged battery
Power supply	rechargeable lithium-polymer battery, 550 mAh
Operating temperature	-5°C - 40°C
Storage temperature	-20°C - 70°C
Dimensions	153 x 43 x 47 mm (closed)
Weight	approx. 68 g

Subject to changes without notice!

10. Warranty and Service

If any problems occur while using the device, please do not hesitate to contact us via our Service address with any questions or problems. The manufacturer's warranty is valid for 2 years. Please refer to the warranty card enclosed separately for details.

Please contact our hotline before sending in your defective device.

Service address:

Rollei Service Deutschland
Denisstraße 28a
D-67663 Kaiserslautern, Germany
Hotline +49 (0)6 31/3 42 84 49

Sales:

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Legal notice

It is your responsibility to ensure that the use of the sunglasses video camera does not infringe upon the privacy rights of third parties. Recordings of persons are to be clearly communicated and made with their consent, as it is not apparent to the persons that the glasses are actually a video camera.

Always take into account personal rights and privacy.