

# SENCOR®

Let's live!



OUTDOOR CAMERA  
OUTDOOROVÁ KAMERA  
OUTDOOROVÁ KAMERA  
SZABADIDŐ-KAMERA  
KAMERA OUTDOOROWA  
**3CAM 4K04WR**

USER'S MANUAL  
NÁVOD K OBSLUZE  
NÁVOD NA OBSLUHU  
HASZNÁLATI ÚTMUTATÓ  
INSTRUKCJA OBSŁUGI

EN

CZ

SK

HU

PL





## 1. Warning

1. This product is made with high precision and designed with respect to its multi-purpose outdoor use for individual entertainment purposes.
2. Respect valid privacy laws when capturing recordings, in particular in your absence.
3. Prevent falls and impacts, especially on sharp and angular objects, stones etc.
4. Do not expose the device to strong magnetic fields such as magnets and electric motors. Keep away from strong radio signals. Strong magnetic fields can damage data on the memory device (card), distort video and audio or even cause the product to malfunction.
5. Do not expose products to high temperatures or direct sunlight.
6. Use brand name and fast microSD cards. Proper functionality and recording features are not guaranteed for non-brand name or slow cards.
7. Prevent a battery contact short circuit. A short circuit can increase the battery temperature and even ignite surrounding objects.
8. In case of overheating, smoke or unpleasant odors during charging or handling immediately disconnect the device and remove the battery to avoid risk of fire.
9. When using in the car pay attention to your own safety and to traffic regulations. Set and start the device when the car is not running do not operate the device as a driver, ask a passenger to do it.
10. The product is not a children's toy. Keep it away from children especially when charging. Plugging the device into the network incorrectly can result in injury, spontaneous suffocation or electric shock.
11. The device is neither a security device nor a device controlled remotely. When using it have it within reach, when it should be operated in the car, always stop first.
12. Keep the device in cool, dry and dust-free environments.

### Storage information

1. Keep in mind that this product is also designed for outdoor use, which can result in it becoming soiled. Carefully clean your camera, case and accessories and blow dust from soiled areas prior to storing, for example, outside of the season, whether short-term or long-term. Dust can eventually cause the coarsening of contact points and reduce, or even completely prevent the product's resistance against dust. Always check the cleanliness of the device before the start of the season.
2. Check the case door seal and buttons at season's end, or at least once a year, and have these components replaced if necessary.
3. Do not use abrasives, chemicals and tools for cleaning, but only a dry, soft cloth or hot water only for non-electrical accessories.
4. The battery is exposed to high mechanical stress with respect to changing outdoor conditions. Therefore occasionally (at least 1 × per season) when using the batteries check for changes in the shape and color of the packaging, the state and the oxidation of the contact surfaces. Battery's wear manifests itself by smaller capacity and shorter operating time, or changing geometry. Once you find irregularities of the geometry, of the contact surfaces, a significant reduction in capacity, it is a sign of the end of battery life. Replace it with a new one.
5. To store the battery for a longer period of time, charge the battery to full and remove it from the device. This extends the battery life and allows you to better utilize its capacity.

## Outdoor use

Prior to using the camera outdoors, prepare and put together the device and accessories ahead of time in a calm manner and dry environment. Make sure the camera is capable of recording scenes you are interested in and that your equipment and clothing are not in the way. This prevents the need to make assembly adjustments and open the sealed camera case in dust/sand, rain, with gloves etc.

Remember that for outdoor use, the camera must be properly closed inside the outdoor waterproof case.

Avoid battery contact contamination and short circuits when handling the battery. Use small plastic bag when you remove the battery.

Do not use the camera in water streams or hot thermal springs. After using the camera in salt water, wash the closed case in fresh water and allow the salt to crystallize on the surface.

Open the case in a clean and dry environment, remove the camera and check the sealing and buttons. If you find salt residue, wash the case in fresh water again and leave the case at room temperature to fully dry, without the effects of warm air or heating. This preserves the water-resistant functionality of the case for its next use.

The camera does not float. Prevent losing the camera in the water by attaching a suitable strap. Pay special attention to the cover glass lens and protect it against dust, dirt and scratches. You will be rewarded with clean and sharp images.

## Using the camera at lower temperatures

Battery performance is temporarily reduced at lower temperatures and increases again once heated to room temperature. We recommend keeping the device in a warm environment, e.g. inside clothing. Do not charge the battery at lower temperatures. Brightness and colour of the display can change at temperatures around freezing point. Moisture can condense or

freeze at lower temperatures, making it difficult or impossible to control the camera, especially around the buttons. It can also lead to impaired image quality. Try to prevent condensation and freezing.

## 2. Introduction

This product is a digital video recording device with ultra high resolution. It offers a host of top features like digital video recording, photography, sound recording, video display and a removable battery, which makes it the ideal device for recording in the vehicle, photographing, outdoor sports, exploration in water, slow recording of fast events, accelerated recording of slow events, etc., so you can shoot a video anytime and anywhere.



Dashcam



Outdoor sports



Water sports



Diving

Based on the activity you plan to use the device for, you can assemble the holder to ensure that the entire viewing angle of the lens captures the entire scene. Remember that the camera has a wide angle lens and captures a larger scene than the human eye is capable of. In practice, this effect is caused by straight lines of objects bending, also referred to as the fish eye effect. Make a trial recording to see whether the camera captures the desired scene and that there are no obstacles. Try to keep the holder length as short as possible during assembly. The camera will not project outward that much, it will be less prone to damage by spontaneous impact with another obstacle and it will also be exposed to less vibrations, transferred from the pad. The result will be a smoother video recording. If you decide to assemble the holder using adhesives, use the tape included in the package and carefully clean and degrease the areas you plan to apply the tape. Look for position that is smooth

and large enough to correctly accommodate the holder. Prior to applying the tape, check to ensure it is clean and intact and that the adhesive is not old (an older adhesive might not have the desired effect). Purchase a new brand name and quality tape, if necessary. Holder (bed) of the camera is designed with regard to ease of use and robustness, the window provides access to only a part of the display. To set the camera, remove it from the holder and replace it in the holder after use.

## 2.1. Function

1. Waterproof case for capturing fascinating water scenes; waterproof up to 60 metres
2. High definition display for displaying and playing recorded videos
3. Removable easy-to-replace battery extends the life of your camera
4. Video recording while charging
5. Battery-operated video recording
6. Wide angle lens with 16 megapixel HD resolution
7. HDMI HD output
8. Web camera
9. It supports memory cards of up to 32 GB capacity (most do 64 GB)
10. Several video recording formats: 2160 p / 1080p / 720p
11. Recording in the MP4 format
12. Several camera modes: single frames, snapshots
13. Thumbnails
14. Remote control unit

### 3. Start-up

#### 3.1. microSD card installation and removal

1. Slide the microSD card into the camera card slot with the contacts facing towards the camera until the card lock clicks.
2. To remove the card, push the card gently until the card lock clicks and slightly slides the card out from the slot. Use your fingers to remove the card completely from the camera.

**Note:** use your own brand name microSD card and format the card using a computer before use. Proper functionality is not guaranteed for non-brand name cards. When card is inserted the camera checks the applicability of the file system, possibly offering formatting. Use card that is of sufficient size for the intended use. Camera reports small size or lack of space left on the card and refuses to perform the desired operation.

#### 3.2. Battery installation and removal

**Note:** the battery has a thin tongue allowing the user to pull out the battery from the tight battery compartment. Do not remove the tongue.

1. Use your fingernail to gently push the fl exible battery compartment closure and open the cover.
2. Insert the battery completely into the camera battery compartment (with the contacts aligned). Make sure the removal tab remains accessible.
3. Place the battery compartment cover back on the camera (in the direction towards the side of the camera) and gently close the cover until the fl exible closure clicks.
4. Battery removal: open the cover and pull on the tab to remove the battery.



**Tip:** a new battery reaches full capacity after about 3 charging cycles. We recommend fully charging the battery (until the red indicator goes off) and deplete it until the camera switches off. This extends the battery life.

**Note:** the camera can be operated even without a battery with an external power supply, for example in the car. Unexpected states can occur with a low battery inserted, including spontaneous shutdown. Charge the camera battery at least a little when using the camera for the first time.

### 3.3. Charging

The inserted battery can be charged either by connecting the camera to a computer or using a power adapter. The adapter must supply an output voltage of 5 V and can either be a network adapter or car adapter. Prior to connecting the power adapter, make sure its voltage is compatible with the network voltage, or voltage supplied by the vehicle.

The camera can be charged in both on and off states. Recordings can be made during the charging process (e.g. in the car). The indicator (upper left) is flashing while the charging is in progress. The adapter, battery and camera become slightly warm while charging. This is a normal effect of energy conversion.

### 3.4. Switching the camera on and off

1. Press and hold the switch for 3 to 5 seconds to switch the camera on or off. A blue indicator (bottom, left), or active display (based on the current settings: PowerSave) indicate the camera is on.

- The camera also switches on and off (based on the current settings, see further) by connecting and disconnecting the power supply, for example in the car, according to the ignition key position.

### 3.5. Switching between modes

Press the on/off switch shortly to switch between modes: **Recording video/Photography/Recording fast events/Playback/Setting**.

The mode is indicated by the following symbols in the top left corner of the active display: Video camera/Camera/Shadowrunner/Play (triangle)/Tools.

### 3.6. Recording videos and taking photos

Recording (Video Recording mode) and taking photos (Camera) is possible if a memory card is inserted into the camera and properly formatted. This can easily be achieved by pressing the **OK** on the top of the camera when the display is on. If the display off (PowerSave), the first press of the button activates the display and the second press performs the desired function. To stop an active recording process, press **OK** again when the display is on. While the recording is in progress, a blue indicator is flashing slowly and a red dot is shown on the display. Taking a picture is accompanied by the typical shutter sound from the camera speaker.

### 3.7. Recording playback and viewing photos

By switching to playback mode you begin to browse files, video clips are marked with a triangle (symbol PLAY). Press **Up** and **Down** to navigate between files. You can view entire video files – press **OK** to play/pause videos, **Up** to move back and **Down** to move forward. You can Stop playback by pressing briefly the button **On (Mode)**.

## Delete File

To delete unnecessary files, hold down **OK** (release) button while a file is displayed and on Delete this file? message, select **Confirmation** and press **OK**.

### 3.8. HDMI connection

You can play the video camera recordings on a monitor (TV) when you connect it with proper cable. The camera has a Micro HDMI (Type D) connector. With HDMI connection to input the TV camera turns off its display and its image redirects to a connected monitor (TV), control buttons operate unchanged. When you disconnect the HDMI cable the camera switches on its display again.

### 3.9. Operating indicator lights

Blue light LED – operation	<ol style="list-style-type: none"> <li>1. Upon powering up, the blue indicator lights.</li> <li>2. Video recording, the blue light fl ashes after recording the video the blue light fl ashes for a few seconds and then remains permanently lit blue.</li> <li>3. Screensavers and file playback, steady blue light.</li> <li>4. The blue indicator is flashing quickly while the device in being turned off.</li> </ol>
Yellow light LED – WiFi	<ol style="list-style-type: none"> <li>1. The yellow light fl ashes when connected to WiFi;</li> <li>2. After connecting to WiFi the yellow light is lit steadily;</li> <li>3. After disconnecting WiFi, the yellow indicator is flashing.</li> </ol>
Red light LED – charging	<ol style="list-style-type: none"> <li>1. The red indicator is flashing while the charging is in progress;</li> <li>2. When the charging is finished, the red indicator lights.</li> </ol>

#### 4. Computer connection

Plug the camera into the computer USB port (Windows) using the included cable. Besides charging the device, you can also use the cable for transferring data.

Once the camera detects a connection to a computer, you receive a message with a choice of USB storage mode, PC camera, and charging. With buttons **Up** and **Down**. Select a mode and confirm connection by pressing **OK**.

**USB mode storage** – connects the memory card in the camera as an external storage of the computer. This storage device acts as any other computer hard drive and allows copying files to the computer. The card contains 2 folders: VIDEO contains common video camera recordings, PHOTO contains images.

**Note:** Card is write-protected against action from the computer due to possible violation of the integrity and readability; the files on the card cannot be deleted, edited or card formatted.

**PC camera mode** – can be used in video communication applications such as e.g. Skype. According to your application, your camera can be named UVC Camera and the like.

**Charging mode** – charges the battery in the camera and you can work with the camera normally, as if it were connected only to the charger, not to a computer.

When you first connect to a given computer port it usually first seeks drivers for the appropriate connections. An internet connection will eventually be required to download operating system updates. Wait for the installation process to finish. If the installation fails, try a different port, or replace the cable.

**Reading card** – You can remove the MicroSD card from the turned off camera and insert it in the corresponding card reader in the computer. You can then directly read the recorded files from the card from the Movie, Photo and store them for further processing or archiving on the computer.

## 5. Wi-Fi control

The camera is able to capture and also provide basic control of the mobile phone (Android / iPhone) using a wireless Wi-Fi connection. The on-board controls are disabled when remote control is active.

To save energy, the Wi-Fi function is disabled by default. Turning on the Wi-Fi (in the Settings menu or by pressing **UP**) activates the transmitter in the camera, which waits for connecting of external control application, operating yellow LED flashes, the display shows WiFi and after initializing the transmitter message about the name of the transmitter (WiFi-SSID) and access.

### Start controls over WiFi (with default values) as follows:

1. Install in your mobile phone a suitable application from the store from your phone e.g. **XDV APP** (wisdomplus).
2. Switch on the function WiFi camera and also mobile phone and start the XDV application.
3. From the available wireless networks, select the name corresponding to the message on the camera display.

4. The default Wi-Fi connection password is "12345678". Enter the right password into your mobile phone and the camera will establish the connection. After a connection is successfully established, the indicator remains lit and the camera display is disabled to save energy.
5. The mobile phone displays the image from the camera and control of photographing, filming and downloading of photos and videos to your mobile phone memory to perform various operations.

**Note:**

Linking of camera and mobile phone is on two points; when connected to a mobile phone you cannot connect to another mobile phone, so that you need to disconnect from the original phone. Phones running Android 2.3 or higher and iOS are supported.

The transmitted picture is slightly delayed compared to reality. The Wi-Fi connection range depends on the surrounding environment (interference etc.). For reliable data transfer function you should have sufficient signal level, check the signal indicator on the phone. The data transmission can oscillate or controls or transmission can be completely impossible with a weak signal.

**NOTICE:**

The camera constantly keeps its setting on conserving power (Power Save). If you have set e.g. the interval of shut off, the camera turns off after its expiration and it disconnects, similarly like when the idle time expires, WiFi. To reconnect after turning on you have to reestablish WiFi connection.

## 6. Remote control

Remote control has two buttons:

- camera mode with red LED indication
- recorder mode with blue LED indication

### Camera button



- switch from the PHOTO mode and take photographs.

### Recorder button



- press shortly to select the RECORDER mode and launch or stop the recording.
- press shortly to enable the recording display.

**Note:** Pairing of the controller with the camera is factory set.

## 7. Camera settings

The camera can operate in many modes and its settings are adapted to do so. Before fully using your camera, take the time to properly configure and test your camera. This way you can prevent disappointment with the final product not meeting your expectations. You should particularly consider whether or not the camera will be moving during the recording process, how long the recording will be, how the camera will be powered, etc. Also consider possible conflicts in processing impulses (spontaneous activation, motion detection, delay shutdown, connecting the power supply to charge the battery) to avoid missing the events you would like to capture because one impulse was not followed by the second. Enter Settings by pressing repeatedly the button **Mode**, and confirm by pressing **OK** in the selection Setting (cogwheel symbol). Move between the card settings by pressing **Mode**, move between the items by pressing **Up** and **Down**, enter the item by pressing **OK**. Select the desired value within the menu item and press **OK** to save this value and close the item. Exit the Setting mode by pressing **OK** on the card (cross symbol). There is an option to disable the function entirely for more items, selection Close.

### 7.1. Video card

#### **Video Resolution – indicated by displayed number**

Select a suitable resolution and speed of the recording (fps) from several options according to the anticipated event. Remember that for higher resolution and recording speed you need to have a fast enough memory card that can handle the writing of the flow of data. The amount of data and file size grows for higher resolution and recording speed.

**Recording Sound** – the microphone symbol on the display is on or striked through  
Enable or disable audio recording with picture.



**Time-lapse** – turning on and setting the recording for slow action

For ordinary recording, leave the feature off (unused / Close), or set the time (0.5s, 1s, 2s, 5s, 10s, 30s, 60s) between the capture of individual images, which you will then be able to play like a movie without sound.

**Loop Recording** – select seamless recording (Unused / Close – just until the available memory limit is reached or the limit of the file system of the card) or splitting into individual files after 2 min / 3 min / 5 min. Use the division feature especially in cases where file lock is used (auto-delete protection), e.g. the impact G-sensor. Smaller files are more suitable to lock.

**Slow Motion** – select Mode, symbol is a runner with phased movement on the display. Select 1080p 60fps or 720p 120fps to record fast action without sound. Suitable for fast transition to a given recording mode only by pressing **Mode**.

## 7.2. Photo card

**Photo resolution** – number of Mpix on display in the camera mode complete with the estimate of remaining space on the card. Select the size of the photos between 16M, 12M, 8M, 5M, 2M. Larger sizes generate larger files that fill the card memory faster. Higher resolutions are interpolated.

**Timer** – Unused/3 s/5 s/10 s/20 s (cannot be used with repeated self timer and serial photos). Set timer for taking photos. Cannot be combined with serial photography. Symbol of stopwatch appears on the display, after pressing **OK** commences countdown until photo is captured.

**Auto** – photos are repeatedly captured automatically (you cannot use auto shutter with repeated timer and serial photo)

The auto shutter photos will be captured repeatedly (Setting Unused, 3s, 10s, 15s, 20s, 30s) until you stop it by pressing OK or it stops due to operational failure (Low battery, memory error, insufficient memory, etc.)

**Drama Shot - series shooting** – Series symbol on the display in the camera mode  
Choose between Off, 3/5/10 of photos for one shutter release. Suitable for quick action.  
A series of snapshots takes longer to write to the card, the operating indicator flashes for the duration of this operation. Wait until the write process completes, indicated by the indicator light permanently turned on. The card speed and number of photos in the series influence the writing period, as well as the photo size (larger photos take longer to write), fine setting and sharpness (finer and sharper photos take longer to write). Cannot be combined with delayed photo.

### 7.3. Selection card

**Exposure** – value on the display

The video camera and camera exposure can be pre-set from -3 (for lighter environments) to +3 (for darker environments).

**White balance** – symbol on the display in camera mode

According to the predominant type of lighting, you can adjust the tint of the photos among Auto (recommended), Sunny, Cloudy, Incandescent Light, Fluorescent Light.

### **Image rotation**

In case of making records with video camera placed above the head it is recommended to turn on this feature, which turns the user interface, as well as recording upside down, to be still usable and the result was straight image. Video camera control remains unchanged.

**Driving Mode** – if it is on, the video camera starts recording after being turned on. Suitable for use in the car, when connecting the onboard power supply (position of key in Accessories) the camera turns on and starts recording by itself. After the power is turned off, the video camera switches off by itself in a little while (It takes a while to close the file). If the Driving mode is not on, the video camera stays in the standby mode and you have to start the eventual recording manually.

**WiFi** – is a way how to operate wirelessly basic features and operation of the video camera incl. Watching the contents of the display even in case that the video camera is in an inaccessible (but close) location. Additional details are in section Control via WiFi.

### **Light Source Frequency**

Camera use under artificial light circumstances can be affected by lights flickering at network frequency, which your eye would not normally register, but your camera will. Choose 50 Hz/60 Hz according to your conditions.

### **LED Indicator Light**

Turn on or off the blue operation light (or. yellow WiFi), should you be disturbed for example while driving in the car. This selection has no effect on the red charging indicator.

**Auto Screensaver**

Set the time after which the display shuts off to: Unused (Close, display is lit during the entire operation) or 1/2/3 min. The display will turn off after the configured period, the camera continues in executing the previous activity. Turn the display on again by pressing briefly any button.

**Auto Shutdown**

Sets the time after which the video camera shuts off from the state of preparedness: Unused (Close) or 1 min, 3 min, 5 min. If the video camera is recording it will not shut off even after the set time runs out.

**Time Watermark**

Enable or disable including the date and time directly in your recording.

**7.4. Card generally****Language**

Choose from one of several user interface languages.

**Date – Time**

Set using arrows Up and Down, toggle between items by pressing **OK**.

**Format**

This feature allows you to format the inserted card to be used in the camera. You are prompted to confirm Yes=Enter (Confirmation), or No=Cancel. After completing a message appears briefly on the presence/inserting of the SD card, wait for it before proceeding.

**ATTENTION!** Formatting will delete all previous contents of the memory card forever!

**Note:**

When you insert a new or unknown card you may receive a message saying that the card system or the card size are unsuitable for recording. Confirmation of formatting the card has the same effect as this function in the device settings.

### **Reset to Factory setting**

Sets all items to the factory pre-sets. This is useful if you would like to return to the default status for multiple settings. Confirm Yes (Confirmation) or cancel by selecting Cancel

### **Firmware version**

Lists information about the currently used system.

## **7.5. Card Exit**

Press **OK** to exit mode Setting to other modes of the video camera.

## 8. Technical data

LCD display	2" (320 × 240)		
Lens	Wide angle lens HD with viewing angle 170°		
Video/codec formats	MP4/H.264		
Recorded video resolution	4K	(3840 × 2160)	30 p./s
	2.7K	(2688 × 1520)	30 p./s
	1080P	(1920 × 1080)	60 fps
	1080P	(1920 × 1080)	30 fps
	720P	(1280 × 720)	120 fps
	720P	(1280 × 720)	60 fps
	720P	(1280 × 720)	30 fps
Photo format	JPEG		
Photo resolution	16M/12M/8M/5M/2M		
Storage	microSD, max 32 GB (most are 64 GB)		
USB interface	Micro USB 2.0		
TV out	HDMI type D		
Required power supply	5 V / 1 A		
Battery capacity	900 mAh		
Recording duration	approx. 2 hours with fully charged new battery (display off)		
Charging time	about 2 hours		

Camera dimensions	59 × 41 × 30 mm
Camera weight including battery	65 g
Operating temperature	-10 °C ~ +55 °C
Storage	-20 °C ~ +70 °C
Humidity	5 % ~ 95 %
Water resistance in a case	60 m in depth

**Note:** The technical data can be updated. The product itself shall be considered as the standard.

## **INSTRUCTIONS AND INFORMATION REGARDING THE DISPOSAL OF USED PACKAGING MATERIALS**

Dispose of packaging material at a public waste disposal site.

## **DISPOSAL OF USED ELECTRICAL AND ELECTRONIC APPLIANCES**



The meaning of the symbol on the product, its accessory or packaging indicates that this product shall not be treated as household waste. Please, dispose of this product at your applicable collection point for the recycling of electrical & electronic equipment waste. Alternatively in some states of the European Union or other European states you may return your products to your local retailer when buying an equivalent new product. The correct disposal of this product will help save valuable natural resources and help in preventing the potential negative impact on the environment and human health, which could be caused as a result of improper liquidation of waste. Please ask your local authorities or the nearest waste collection centre for further details. The improper disposal of this type of waste may fall subject to national regulations for fines.

**For business entitled in the European Union**

If you wish to dispose of an electrical or electronic device, request the necessary information from your seller or supplier.

**Disposal in other countries outside the European Union**

If you wish to dispose of this product, request the necessary information about the correct disposal method from local government departments or from your seller.



Hereby, FAST ČR a.s. declares that the radio equipment type 3CAM 4KO4WR is in compliance with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address: [www.sencor.eu](http://www.sencor.eu)

Changes in the text, design and technical specifications may change without prior notice and we reserve the right to make these changes.

The original version is Czech.

Manufacturer: Fast CR, a.s., Černokostelecká 1621, CZ 251 01 Říčany, Czech Republic



# SENCOR®

## EN Warranty conditions

**Warranty card is not a part of the device packaging.**

This product is warranted for the period of 24 months from the date of purchase to the end-user. Warranty is limited to the following conditions. Warranty is referred only to the customer goods using for common domestic use. The claim for service can be applied either at dealer's shop where the product was bought, or at below mentioned authorized service shops. The end-user is obligated to set up a claim immediately when the defects appeared but only till the end of warranty period. The end user is obligated to cooperate to certify the claiming defects. Only completed and clean (according to hygienic standards) product will be accepted. In case of eligible warranty claim the warranty period will be prolonged by the period from the date of claim application till the date of taking over the product by end-user, or the date the end-user is obligated to take it over. To obtain the service under this warranty, end-user is obligated to certify his claim with duly completed following documents: receipt, certificate of warranty, certificate of installation.

**This warranty is void especially if apply as follows:**

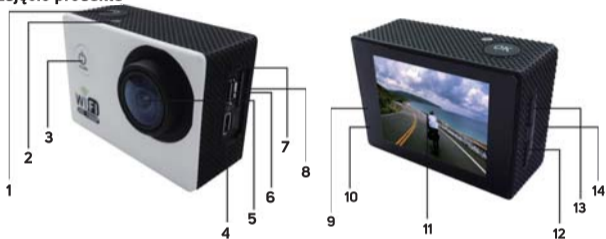
- Defects which were put on sale.
- Wear-out or damage caused by common use.
- The product was damaged by unprofessional or wrong installation, used in contrary to the applicable instruction manual, used in contrary to legal enactment and common process of use or used for another purpose which has been designed for.
- The product was damaged by uncared-for or insufficient maintenance.
- The product was damaged by dirt, accident of force majeure (natural disaster, fire, and flood).

- Defects on functionality caused by low duality of signal, electromagnetic field interference etc.
- The product was mechanically damaged (e.g. broken button, fall).
- Damage caused by use of unsuitable media, fillings, expendable supplies (batteries) or by unsuitable working conditions (e.g. high temperatures, high humidity, quakes).
- Repair, modification or other failure action to the product by unauthorized person.
- End-user did not prove enough his right to claim (time and place of purchase).
- Data on presented documents differs from data on products.
- Cases when the claiming product cannot be indentified according to the presented documents (e.g. the serial number or the warranty seal has been damaged).

**Authorized service centers**

Visit [www.sencor.eu](http://www.sencor.eu) for detailed information about authorized service centers.

**Product image / Obrázek produktu / Obrázok produktu / A kamera részei / Zdjęcie produktu**



**EN**

1. OK
2. LED indicator
3. Switching/mode
4. HDMI
5. Lens
6. USB
7. Microphone
8. microSD
9. Red light LED – charging

10. Blue light LED – operation
11. Screen
12. Button – arrow down
13. Button – arrow up – WiFi
14. Speaker

**CZ**

1. OK
2. Kontrolka LED
3. Přepínání / režim

4. HDMI
5. Objektiv
6. USB
7. Mikrofon
8. microSD
9. Červené světlo LED – nabíjení
10. Modré světlo LED – provoz
11. Obrazovka
12. Tlačítko – šipka dolů

13. Tlačítko – šípka nahoru – WiFi
14. Reproduktor

### SK

1. OK
2. Kontrolka LED
3. Prepínanie/režim
4. HDMI
5. Objektív
6. USB
7. Mikrofón
8. microSD
9. Červené svetlo LED – nabíjanie
10. Modré svetlo LED – prevádzka
11. Obrazovka
12. Tlačidlo – šípka dole

13. Tlačidlo – šípka hore – Wi-Fi
14. Reproduktor

### HU

1. OK
2. LED kijelző
3. Átkapcsoló / üzemmód
4. HDMI
5. Objektív
6. USB
7. Mikrofon
8. microSD
9. Piros LED fény – töltés
10. Kék LED fény – üzemelt
11. Képernyő
12. Gombok – nyíl lefelé
13. Gombok – nyíl felfelé – WiFi
14. Hangszóró

### PL

1. OK
2. Wskaźnik LED
3. Przełącznik / tryb
4. HDMI
5. Obiektyw
6. USB
7. Mikrofon
8. microSD
9. Czerwone światło LED – ładowanie
10. Niebieskie światło LED – praca
11. Ekran
12. Przycisk – strzałka w dół
13. Przycisk – strzałka w górę – WiFi
14. Głośnik

## Accessories / Příslušenství / Príslušenstvo / Kiegészítők / Akcesoria

 <p>Water-resistant case Voděodolné pouzdro Vodoodolné puzdro Vízhatlan tok Obudowa wodoszczelna</p>	 <p>Bike holder Držák na kolo Držiak na bicykel Tartó kerékpárhoz Uchwyt rowerowy</p>	 <p>Stand 1 Podstavec 1 Podstavec 1 Alátét 1 Podstawka 1</p>	 <p>Stand 2 Podstavec 2 Podstavec 2 Alátét 2 Podstawka 2</p>	 <p>Rear clip Zadní klip Zadná klipsa Hátsó klipsz Klipsz tylnej</p>
 <p>Firm base Pevná základna Pevná základňa Szilárd alap Stala podstavka</p>	 <p>Support 1 Podpěra 1 Podpěra 1 Tartó 1 Podpórka 1</p>	 <p>Support 2 Podpěra 2 Podpěra 2 Tartó 2 Podpórka 2</p>	 <p>Support 3 Podpěra 3 Podpěra 3 Tartó 3 Podpórka 3</p>	 <p>Commutator Komutátor Komutátor Átváltó Komutator</p>

 <p>           Helmet stand            Podstavec pro helmu            Podstavec na helmu            Sisak alátét            Podstawka pod kask         </p>	 <p>           Armband            Obinadlo            Ovinadlo            Kötés            Taśma mocująca         </p>	 <p>           Hard case            Pevné pouzdro            Pevné pouzdro            Szilárd tok            Futerał         </p>	 <p>           Tightening tape            Stahovací páska            Stahovacia páska            Meghúzó szalag            Taśma ściągająca         </p>	 <p>           3M pad            3M podložka            3M podložka            3M alátét            Podkładka 3M         </p>
 <p>           Cord            Lanko            Lanko            Zsinór            Linka         </p>	 <p>           Data cable            Datový kabel            Datový kabel            Adatkábel            Kabel do transmisji danych         </p>	 <p>           Adapter            Adaptér            Adaptér            Adapter            Zasilacz         </p>	 <p>           User's manual            Uživatelský manuál            Používateľská príručka            Felhasználási kézikönyv            Instrukcja obsługi         </p>	 <p>           Cleaning cloth            Čistiaci handrička            Čistiaca handrička            Tisztító anyag            Sztatka do czyszczenia         </p>

## Application assembly diagram / Aplikační schéma sestavy / Aplikačná schéma zostavy / Összerakási ábra / Schemat aplikacyjny zestawu:



helmet stand  
podstavec pro helmu  
podstavec na helmu  
sisak alátét  
podstawka pod kask

+



base  
podstavec  
podstavec  
alátét  
podstawka

+



long rod  
dlouhá tyč  
dlhá tyč  
hosszú bot  
długi kijek

+



water resistant case  
vodotěsné puzdro  
vodotěsné puzdro  
vizhatlan tok  
obudowa wodoszczelna

=



camera  
fotoaparát  
fotoaparát  
fényképezőgép  
aparát fotograficzny

+



=









camera  
fotoaparát  
fotoaparát  
fényképezőgép  
aparát fotograficzny

+



rear clip  
zadní klip  
zadná klipsa  
hátsó klipsz  
tylny klips

+



clip  
klip  
klipsa  
klipsz  
klips

=



(Tips: Some properties of the above features may vary depending on the current model, without notice.)

(Tipp: Některé vlastnosti výše uvedených funkcí se mohou lišit v závislosti od aktuálního modelu, bez dalšího upozornění.)

(Tipp: Niekторé vlastnosti vyššie uvedených funkcí sa môžu lišit v závislosti od aktuálneho modelu, bez ďalšieho upozornenia.)

(Tipp: A fent említett funkciók bizonyos tulajdonságai az aktuális modelltől függenek, egyéni figyelmeztetés nélkül.)

(Wskazówka: Niektóre właściwości powyższych funkcji mogą się różnić w zależności od aktualnego modelu, bez uprzedniego powiadomienia.)

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