

SENCOR®

Let's live!



**OUTDOOR CAMERA
OUTDOOROVÁ KAMERA
OUTDOOROVÁ KAMERA
SZABADIDŐ-KAMERA
KAMERA OUTDOOROWA**

3CAM 5200W

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

EN	CZ	SK	HU	PL
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1. Warning

This product is made with high precision and designed with respect to its multi-purpose outdoor use for individual entertainment purposes.

Respect valid privacy laws when capturing recordings, in particular in your absence.

Prevent falls and impacts, especially on sharp and angular objects, stones etc.

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.

Do not expose products to high temperatures or direct sunlight.

Use brand name and fast microSD cards. Proper functionality and recording features are not guaranteed for non-brand name or slow cards.

Prevent a battery contact short circuit. A short circuit can increase the battery temperature and even ignite surrounding objects.

Immediately unplug the device if it begins to overheat, emit smoke or an unpleasant odour while charging to prevent fire.

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.

Keep the device in cool, dry and dust-free environments.

Storage information

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 purity of the device before the start of the season.

Check the case door seal and buttons at season's end, or at least once a year, and have these components replaced if necessary.

Do not use abrasive materials, chemicals or tools to clean the device. Use a soft, dry towel only. Warm water can be used on non-electric accessories.

The battery is exposed to high mechanic load with respect to changing outdoor conditions. Check the battery on occasion for changes to the shape and colour of the case, status and oxidation of contacts. Battery wear and tear is demonstrated by lower capacity and shorter operating time.

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, 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 affects 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 by 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. The brightness and display colour can change at zero degree temperatures. 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 device used to record high definition videos. It provides a range of top-level functions such as digital video recording, camera, audio recording, video playback and features a removable battery, making it the ideal device for recording in your car, taking pictures, outdoor sports, home security, water activities and others, so you can record video any time and anywhere.



Dashcam



Outdoor sports



Water sports



Diving



Home security

Based on the activity you plan to use the device for, you can assemble the holder to ensure 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 mat. 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.

2.1. Function

- Waterproof case for capturing fascinating water scenes; waterproof up to 30 metres
- High definition display for displaying and playing recorded videos
- Removable easy-to-replace battery extends the life of your camera
- Video recording while charging
- Battery-operated video recording
- Wide angle lens with 12 megapixel HD resolution

- HDMI HD output
- Web camera
- Supports memory cards with a capacity of up to 32 GB
- Several video recording formats: 1080p / 720p
- MOV format recording
- Several camera modes: single frames, snapshots
- Thumbnails

3. Start-up

3.1. microSD card installation and removal

- A. Slide the microSD card into the camera card slot with the contacts facing towards the camera until the card lock clicks.
- B. 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. The card can also be formatted using the camera.

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.

- A. Use your fingernail to gently push the flexible battery compartment closure and open the cover.
- B. Insert the battery completely into the camera battery compartment (with the contacts aligned). Make sure the removal tongue remains accessible.
- C. The camera will activate if the battery is charged enough.
- D. 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 flexible closure clicks.
- E. Battery removal: open the cover and pull on the tongue 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 is deplete 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 charging indicator is on while charging (top, left). 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

- A. 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.
- B. 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.
- C. The camera can also be configured to automatically start based on its internal motion detectors and shut down after a configurable delay.

3.5. Switching between modes

Press the on/off switch shortly to switch between modes: **Video Recording / Camera / Playback / Settings**.

The mode is indicated by the following symbols in the top left corner of the active display: Video/Camera/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.

An active recording sequence is indicated by a slow-flashing blue indicator and red dot on the active display. Taking a picture is accompanied by the typical shutter sound from the camera speaker.

3.7. Recording playback and viewing photos

Upon switching the mode to play, you can begin viewing files according your **File Type** settings: **Event** represents events captured by the G-sensor, **Video** represents video recordings, **JPEG** represents photos. 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. Press **Mode** shortly to stop playback.

3.8. HDMI connection

Camera recordings can be played in full resolution on a monitor (TV) by connecting the proper cable. The camera has a Micro HDMI (Type D) connector. By connecting the HDMI cable, the camera will switch to playback mode, the display will switch off, controls work normally. Once the HDMI cable is disconnected, the camera stays in playback mode and the display switches on.

4. PC 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.

As soon as the computer detects the camera, a dialog will appear prompting the user to select between MSDC and PCCAM mode. Press **Up** and **Down** to select a mode and press **OK** to confirm.

MSDC mode – connects the memory card inserted in the camera to the computer as an external storage device. This storage device acts as any other computer hard drive and allows copying files to the computer. The card contains 3 folders: EVENT represents recordings that are events “locked” preventing them from being automatically erased when deleting older recordings, VIDEO represents standard camera recordings, JPEG represents photos.

Note: we recommend not making any changes to files or memory cards while the camera is connected to the computer. Some files or the entire card could become inaccessible for the camera or even prohibit further recording to the card. In this case, the card shall be formatted, which results in losing all data stored on the card.

PCCAM mode – can be used for video conferencing applications, e.g. Skype. Based on the way you plan to use the device, the camera can be renamed to Siri, AP9 etc.

The computer searches for compatible drivers after connecting the device to the computer port for the first time. 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.

Card reading – you can also remove the microSD card from the camera when switched off and insert it into a compatible PC card reader. You can then read recorded files directly from the Event, Movie, JPEG folders and save them for further processing or archiving.

5. Wi-Fi control

The camera also allows you to completely control the recording process using your mobile phone (Android/iPhone) via wireless connection. The on-board controls are disabled when remote control is active.

To save energy, the Wi-Fi function is disabled by default. Enabling Wi-Fi activates the integrated transmitter, which awaits the connection from an external controlling application, the operation indicator flashes blue, a dialog appears on the display that reads "Waiting for WiFi Connecting". The Wi-Fi function is disabled after one minute if no connection is established.

Enable Wi-Fi controls as follows:

1. Install **ispocam.APK** (Android) / **ispocam.IPA** (iPhone) on your mobile phone.
2. Enable Wi-Fi on your mobile phone.
3. Select the wireless network the name of which corresponds to your camera: "A5-A000001".
4. The default Wi-Fi connection password is "1234567890". 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. Run the **ispocam** application and after a moment, the mobile phone displays the image transmitted by the camera and is capable of controlling the camera, recording and able to download photos and video recordings to the mobile phone memory for further processing.

Note: pairing the camera and mobile phone is a two-way operation; once the mobile phone is connected, you cannot connect to another mobile phone, so you have to unpair the first 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.). A strong signal ensures a reliable data transmission. You can track the signal indicator in the isprocam application. The data transmission can oscillate or controls or transmission can be completely impossible with a weak signal.



NOTICE: the camera still respects the PowerSave settings. If you have an Off interval set, the camera will shutdown when this interval is reached and the connection will be lost. The procedure above (from item 2) shall be repeated to restore the connection.

6. 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.

Press **Up** and **Down** to switch between items, press **OK** to enter the menu item. Select the desired value within the menu item and press **OK** to save this value and close the item. Press **Mode** to exit Settings by switching to a different mode.

Note: the individual settings have symbols mentioned by their names. The same symbol appears on the status display.

- 1. Movie Size** – indicated by a number on the display
Choose between FHD 1080p and HD 720p. Remember that both cases require having a memory card that is fast enough to write the received data. The amount of data and file sizes for 1080p is larger than 720p.
- 2. Seamless** – camera symbol with 1/3/5 on the display
Choose a full recording (OFF) or divided into individual 1 min/3 min/5 min files. 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.
- 3. HDR** – [HDR] symbol on the display
High-dynamic-range imaging is an adaptive shooting technique in a high dynamic brightness range, which is supposed to give a closer sense of human perception. For subjectively better results, select On/Off with respect to the lighting conditions and action speed.
- 4. Motion Detection** – the symbol will appear on the display during the recording sequence
The camera evaluates motion in the viewing angle and activates the recording sequence if more significant motion is registered. About a 10 minute recording is created.

5. **Record Audio** – enabled or disabled microphone symbol on the display
Enable or disable audio recording with picture.
6. **Date stamp**
Enable or disable including the date and time directly in your recording.
7. **Sport Mode** – [P] symbol on the display
This mode is automatically activated when the camera experiences a swift movement or impact. Select the motion intensity sensitivity option LOW, MID, HIGH or OFF to disable the mode. As soon as the motion detector of a camera that is switched off registers a swift movement or impact (based on the settings), the camera turns on and records until the battery runs out of power. For example, this mode can also be used in a parked car in your absence – Parking mode.
8. **G-Sensor** – key symbol on the display throughout the duration of recording the currently locked file
The impact sensor locks files to protect them against auto-deletion. The camera records to the memory card until the full capacity of the card is reached. Then it begins to automatically delete the oldest recordings. For example, locking a file using the G-sensor prevents deleting a file that was recorded immediately before and directly after an accident, even though the camera were to continue recording. Select the proper sensor activation threshold (sensitivity) between OFF, LOW, MID, HIGH, which approximately corresponds to 1G/2G/8G.

Note: if a locked file fills the entire memory, further recording will not be possible. We recommend selecting shorter files (Seamless), and using the lock option with moderation and thoroughly delete locked files manually, to ensure you always have the maximum space available.

Tip: a file can be locked manually by pressing the Down button during the standard recording process.

9. **Resolution** – Mpix on the display in camera mode including the estimated amount of remaining space on the card
Choose the photo size between 12M 4000×3000, 10M 3648×2736, 8M 3264×2448, 6M 2816×2112, 3M 2048×1536, 2M 1920×1080, VGA 640×480. Larger sizes generate larger files that fill the card memory faster.
10. **Exposure** – value on the display
The video camera and camera exposure can be pre-set from -2 (for lighter environments) to +2 (for darker environments).
11. **Quality** – photo quality 1 to 3 stars on the display in camera mode
Choose the rate of capturing fine photo details between SuperFine (3 stars, largest file size), Fine, and Normal (1 star, smallest file size).
12. **White balance** – symbol on the display in camera mode
Based on the predominant type of lighting, you can adjust the photo tones between Auto (recommended), Daylight, Cloudy, Tungsten, Fluorescent.

13. ISO – number on the display in camera mode

Choose between Auto (recommended)/100/200/400. A greater number corresponds to a higher material sensitivity, however, it also increases picture noise.

14. Anti-shaking – hand symbol on the display in camera mode

The shutter speed is quicker when taking snapshots to reduce the effect of a shaking hand or mat. ON / OFF options.

15. Burst – series symbol on the display in camera mode

Choose between OFF. 3/5/10 snapshots on a single trigger push. 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).

16. Sharpness

The sharpness of photos after being taken can be affected using the Strong, Normal (recommended) and Soft.

17. Date & Time

Use the Up and Down arrows to set the date and time, move between items by shortly pressing the Mode button.

18. Power Save

Set the period after which the display turns off. The available options are OFF (the display is always on), 10 sec, 30 sec, 1 min. The display will turn off after the configured period, the camera continues in executing the previous activity. The display will turn back on by shortly pressing the OK, Up or Down buttons.

19. Rotate

The user interface (information messages on the display) can either be fixed (OFF) and can therefore be upside down when the camera is rotated, or the texts can rotate (ON) when the camera is turned to ensure legibility. The captured image remains intact.

20. Wi-Fi password

The pre-set Wi-Fi connection password is "1234567890" can be changed to a custom password consisting of letters and numbers.

21. BEEP

Pressing buttons can be accompanied by beeps (On) or can be beeps can be disabled (Off).

22. Language

Choose from one of several user interface languages.

23. Light Freq

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.

24. Delay Shutdown

If this setting is set to On, the camera does not perform any operation for approximately 1 minute, the camera is switched off to save energy.

25. File Type

Determine the files to be played in playback mode. Event represents events captured by the G-sensor, Video represents video recordings, JPEG represents photos.

26. Format

This feature allows you to format the inserted card to be used in the camera.

A confirmation request will appear Yes=Enter, or No=Cancel.

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

27. Delete File

To delete unnecessary files, choose between Delete This File?, which deletes the last file, or the next file back. Or Delete All Files? The delete process shall be confirmed Yes or No

28. Factory reset

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 with Enter or cancel by pressing Cancel.

29. System information

Lists information about the currently used system.

7. Technical data

LCD display	1.5" LTPS
Lens	Wide angle A+ lens with a 170° viewing angle
Video/codec formats	MOV/H.264
Recorded video resolution	1080P (1920 × 1080) 30 fps 720P (1280 × 720) 30 fps
Photo format	JPEG
Photo resolution	12M/10M/8M/6M/3M/2M/VGA
Storage	microSD
USB interface	USB 2.0
TV out	HDMI type D
Required power supply	5 V / 1 A
Battery capacity	900 mAh
Recording duration	1080P / about 70 minutes
Charging time	about 3 hours
Camera dimensions	59 × 41 × 29 mm
Camera weight including battery	65 g

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 entities 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.

This appliance complies with EU rules and regulations regarding electromagnetic and electrical safety.



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

Manufacturer address: FAST ČR, a.s., Černokostelecká 1621, 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** for detailed information about authorized service centers

