

SENCOR®

Let's live!

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

3CAM 2001

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

EN

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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 cleanliness 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 abrasives, chemicals and tools for cleaning, but only a dry, soft cloth or hot water only for non-electrical accessories.

The battery is exposed to high mechanical stress 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, 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 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 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 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
- Display for viewing and playing of recorded video
- Removable easy-to-replace battery extends the life of your camera
- Video recording while charging
- Battery-operated video recording
- Wide angle lens with 3 megapixel HD resolution

- Web camera
- Supports memory cards with a capacity of up to 32 GB
- Several video recording formats: 1080p / 720p
- Recording in AVI format
- 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 microSD card and format it before using in the computer. Proper functionality is not guaranteed for non-brand name cards. The card can also be formatted using the camera. Hold the card lightly when inserting and removing it to keep it from popping.

3.2. Battery installation and removal

Note:

The battery has a thin tab for removing it from the tight battery compartment space. 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 tab remains accessible.
- C. 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.
- D. Battery removal: open the cover and pull on the tab to remove the battery.

Tip:

A new battery reaches full power after about 3 cycles of charge and discharge. We recommend charging the battery fully (until the blue charge light goes off) and discharge until the camera shuts down. This extends the battery life.

Note:

With external power supply, the camera can operate without batteries, e.g. 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 blue charging indicator is on when 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. The camera on is indicated by a red light (left) or a lit display (depending on setting: PowerSave).
- 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. According to the setting, the camera may turn itself off after the set delay has elapsed.

3.5. Switching between modes

Press the on/off switch shortly to switch between modes: **Video recording / Photography / Playback.**

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

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 is 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. The ongoing recording is indicated by a slowly flashing red operation indicator and a red dot on the lit screen. Photo capture is accompanied by a beep from the camera speaker (unless the sounds are disabled in the Settings) and the display is briefly off.

3.7. Recording playback and viewing photos

Switch to playback mode to start viewing files. Video recordings are marked by the camera symbol. Press **Up** and **Down** to navigate between files. You can view the whole video files – press **OK** to start/pause playback, set move using the button **Up** and **Down**. Press **MODE** to stop playback.

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 the computer it displays a message with a choice of Mass Storage Mode and PC Camera. With buttons **Up** and **Down** select a mode and confirm connection by pressing **OK**.

Mass Storage mode – connects a memory card as an external storage of the computer. You can copy the files to your computer from this storage. They are in the folder DCIM/100MEDIA on the card: AVI are video recordings, JPG are photos.

Note:

You can not make any changes to the files or to the memory card when connected to a computer. Some files or the entire card could become inaccessible for the camera or even prohibit further recording on the card. In this case, the card shall be formatted, which results in losing all data stored on the card.

PC Camera mode – can be used in video communication applications, e.g. Skype. Depending on your application the camera may have name like General, UVC 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 directly read from the card the recorded files and save them for further processing or archive them on the computer.

5. 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. Consider in particular, whether the camera will be moving or not during recording, how long the recording will be performed, how the camera will be powered at the time of recording, etc. Consider possible conflicts (switch-off delay, battery power connection) to prevent that a desirable the camera shot is gone because there was one impulse, but not another.

Enter the camera Settings by holding the **OK** button for 3 seconds in a given mode, which was selected by repeated pressing of the **MODE** button. Enter the video settings in the VIDEO mode (next only **Video Tab**), in the camera mode PHOTO enter the camera settings (next only **Photo Tab**), in the PLAY mode enter the playback settings (next only **Play Tab**). The **Setting Tab** is available in all modes with parameters generally applicable to all modes. Move between items using buttons **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. End Setting mode by switching to another mode by pressing the button **ON (Mode)**.

Note:

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

1. Deleting files (Delete...) – bin symbol, Play Tab

To delete unnecessary files, select Delete this? to delete the current file or Delete all? to delete all files. The actual deletion has to be confirmed by OK or Cancel.

2. Lock (Lock...) – key symbol, Play Tab

Select Lock current/Unlock current/Lock All/Unlock All and then select OK to confirm or Cancel. In this menu, you can process the files locked against automatic overwrite (originated as enabled processing of vibrations or manually by pressing the Down button while recording). Locked files can fill up all the available space, therefore it must be handled with caution and should only be used for important recordings, which you want to keep. Smaller files are more suitable for locking.

3. Resolution – indicated by a number on the display, Video tab

Select among 1920×1080, 1280×720 a 640×480. Remember, you need a fast enough memory card that can write the data feed. The amount of data and the file size is larger for higher resolution than the lower resolution.

4. Loop recording (Loop recording) – video camera symbol with 5/10/15 on the display, Video Tab

Select the entire recording (ON / OFF) or splitting into individual files after 5 min/10 min/15 min. Choosing a single record can not exceed the limits given by the file system of the card or file format. Records will continue to be split, but files will be significantly larger.

5. Exposure – EV symbol, fraction on display, Video tab

The video camera and camera exposure can be pre-set from -2 (for lighter environments) to +2 (for darker environments).

6. Date stamp – Video tab

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

7. Resolution – the number of Mpix on the display, Photo tab

Select the size of the photo between 12M 4032×3024, 10M 3648×2736, 8M 3264×2448, 5M 2592×1944, 3M 2048×1536, 2M 1600×1200, 1.3M 1280×960, VGA 640×480. Larger sizes generate larger files that fill the card memory faster.

8. Capture mode – mode symbol, Photo Tab

Select single picture (Single), Self-timer 2 s (Self 2S), Self-timer 10 s (Self 10S), Sequential (Burst).

9. Quality – Photo quality of 1 to 3 lines of stripes in camera mode, Photo tab

Select the amount of fine detail capture from Super Fine/Super Fine (largest file size), through Fine/Fine to Normal/Normal (the smallest file size).

10. Exposure – symbol EV, fraction on the display, Photo tab

The video camera and camera exposure can be pre-set from -2 (for lighter environments) to +2 (for darker environments).

11. Date stamp – Photo tab

Turn on or off placing of the date and time directly into the picture.

12. Date and Time – Settings tab

Set using arrow keys Up and Down; to move among the items briefly press the OK button, press the power button to exit Mode.

13. Auto Power Off – Setting tab

When the camera is turned on and does not perform any operation for about 1, 3 or 5 minutes, the camera turns off to conserve power.

14. Screen Saver – Settings tab

Set the time after which the screen turns off from OFF (OFF display lit at all times) or 1 min, 3 min, 5 min. The display will turn off after the configured period, the camera continues in executing the previous activity. Turn on the display by pressing briefly the OK button.

15. Sounds – Setting tab

Pressing buttons, turning on and off may be accompanied by a beeping sound (Option On) or it can be silent (Off).

16. Language – Settings tab

Choose from one of several user interface languages.

17. Frequency – Settings tab

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.

18. Format – Settings tab

This feature allows you to format the inserted card to be used in the camera. You are requested to confirm OK or Cancel.

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

19. Default Setting – Settings tab

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

20. Version – Settings tab

Lists information about the currently used system.

6. Troubleshooting

Please read before contacting your dealer or repair centre

Tip: The memory card or battery are especially sensitive to demanding conditions (changes in temperature, cold, vibrations). Check their condition regularly and prior to higher stress, e.g. before vacation. When slightest difficulties occur, replace them with new ones. Remember that even minor difficulties identified in home conditions are magnified in the outdoor environment.

Photos and recordings cannot be taken

Check the inserted card to determine it is functional and has enough free capacity or that the card does not have an overwrite lock applied. Alternatively, format the card.

The recording process stops by itself

Check the integrity of the inserted card, format it in the device or use a different card, preferably a faster one.

When playing video or photos message appears “File Error” or file is unreadable or missing

The file is corrupted due to the memory card, try formatting the card or replace it with a new one.

Blurred image

Check whether the lens is dirty, and if necessary, clean the lens using fine cleaner, which you would also use, for example, to clean your glasses.

The image is dark, even though the scene is bright (sky, water)

The device attempts to automatically balance scenes with a high contrast. Adjust the measurement and EV sensitivity.

The colours of photos are not true even in daylight

Check the white balance in Settings.

Stripes in the image

The scene contains light with a frequency of 50 Hz or 60 Hz, based on your network. Adjust the frequency in Settings to compensate for stripes.

7. Technical specifications

LCD display	2"
Lens	Wide angle lens A+ with angle of 120°
Video/codec formats	AVI/MJPEG
Recorded video resolution	1920×1080 – 30 fps, 1280×720 – 30 fps, 640×480 – 30 fps
Photo format	JPEG
Photo resolution	12M/10M/8M/5M/3M/12/1.3M/VGA
Storage	microSD
USB interface	USB 2.0
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 × 31 mm
Camera weight including battery	65 g

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

The original version is in Czech.

Manufacturer address: FAST ČR, a.s., Černokostelecká 1621, Říčany CZ-251 01

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:

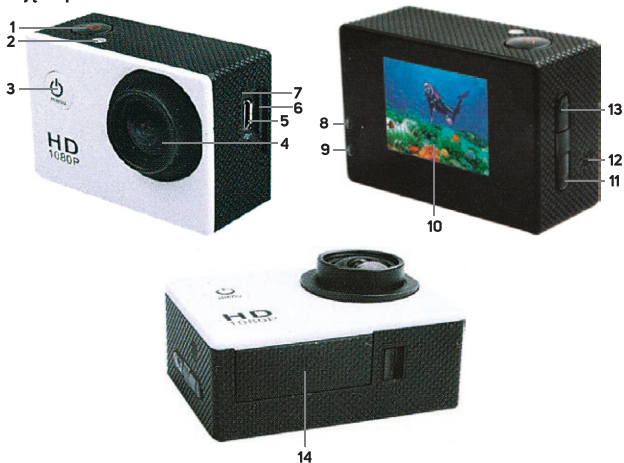
- Defects which were put on sale.
- Wear-out or damage caused by common use.

- 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

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



EN

1. OK
2. Indicator
3. ON/OFF / Menu
4. Lens
5. USB
6. microSD
7. Microphone
8. Charging indicator
9. Operation indicator
10. Display
11. Down / (Zoom Out)
12. Speaker
13. Up / (Zoom In)
14. Battery cover

CZ

1. OK
2. Indikátor
3. ZAP/VYP / Menu
4. Objektív
5. USB
6. microSD
7. Mikrofon
8. Indikátor nabití
9. Indikátor provozu
10. Displej
11. Dolů / (Zoom Out)

12. Reproduktor
13. Nahoru / (Zoom In)
14. Kryt baterie

SK

1. OK
2. Indikátor
3. ZAP./VYP./Menu
4. Objektív
5. USB
6. microSD
7. Mikrofón
8. Indikátor nabíjania
9. Indikátor prevádzky
10. Displej
11. Dole/(Zoom Out)
12. Reproduktor
13. Hore/(Zoom In)
14. Kryt batérie

HU

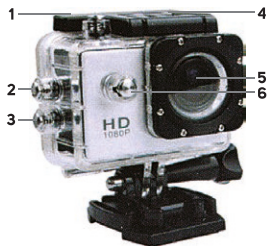
1. OK
2. Kijelző
3. Be/Ki/Menü
4. Objektív
5. USB
6. microSD
7. Mikrofon

8. Töltéskijelző
9. Működés kijelző LED
10. Kijelző
11. Le / (Zoom Out)
12. Hangszóró
13. Fel / (Zoom In)
14. Elemtartó fedél

PL

1. OK
2. Dioda
3. WŁ./WYŁ. / Menu
4. Obiektyw
5. USB
6. microSD
7. Mikrofon
8. Wskaźnik ładowania
9. Wskaźnik pracy
10. Ekran
11. W dół / (Zoom Out)
12. Głośnik
13. W górę / (Zoom In)
14. Pokrywa baterii

Picture with waterproof case / Obrázek voděodolného pouzdra / Obrazok vodoodolného pouzdra / Vízhatlan tok / Rysunek obudowy wodoszczelnej



EN

1. OK
2. Up
3. Down
4. Case opening lock
5. Lens
6. Switch/mode

CZ

1. OK
2. Nahoru
3. Dolů

4. Zámek otevření pouzdra
5. Objektiv
6. Přepínač/režim

SK

1. OK
2. Hore
3. Dolu
4. Zámka otvorenia pouzdra
5. Objektiv
6. Prepínač/režim

HU

1. OK
2. Fel
3. Le
4. Tokzár
5. Objektiv
6. Főkapcsoló / üzemmód kapcsoló

PL

1. OK
2. W górę
3. W dół
4. Blokada otwarcia obudowy
5. Obiektyw
6. Przełącznik/tryb

Pictures with Accessories / Obrázek příslušenství / Obrázky príslušenstva / Tartozék / Zdjęcia akcesoriów

 <p>Water-resistant case Voděodolné pouzdro Vodoodolné puzdro Vizhatlan tok Obudowa wodoszczelna</p>	 <p>Bike holder Držák na kolo Držiak na bicykel Tartó kerékpárhoz Uchwył rowerowy</p>	 <p>Base 1 Základna 1 Základňa 1 Talp 1 Podstawa 1</p>	 <p>Base 2 Základna 2 Základňa 2 Talp 2 Podstawa 2</p>	 <p>Car bed Lůžko do auta Lôžko do auta Kameratartó autóba Łoże montażowe do samochodu</p>
 <p>Solid holder Pevný držák Pevný držiak Fix tartó Uchwył stały</p>	 <p>Arm 1 Rameno 1 Rameno 1 Kar 1 Ramię 1</p>	 <p>Arm 2 Rameno 2 Rameno 2 Kar 2 Ramię 2</p>	 <p>Arm 3 Rameno 3 Rameno 3 Kar 3 Ramię 3</p>	 <p>Adapter Adaptér Adaptér Adapter Zasilacz</p>

 <p> Helmet holder Držák na helmu Držiak na helmu Tartó sisakra Uchwył na kask </p>	 <p> Belt Remínek Remienok Heveder Rzemień </p>	 <p> Strap Pásek Páska Kötöző szalag Pas </p>	 <p> 3M tape Lepicí páska 3M Lepiaca páska 3M 3M ragasztószalag Taśma klejąca 3M </p>	 <p> Steel wire Ocelové lanko Oceľové lanko Drótkotél Linka stalowa </p>
 <p> Data cable Datový kábel Dátový kábel Acél dróthurok Kabel do transmisji danych </p>	 <p> Charger Nabíječka Nabíjačka Akkumulátortöltő Ładowarka </p>	 <p> User's manual Návod k obsluze Návod na obsluhu Használati útmutató Instrukcja obsługi </p>	 <p> Towel Handřík Handrička Törölköző Szmata </p>	



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