MINOX

DTC 450 SLIM

Wildkamera

Instructions

MINOX DTC 450 SLIM

Introduction

Congratulations on the purchase of your wildlife camera MINOX DTC 450.

Like all other MINOX products this MINOX DTC 450 wildlife camera boasts the traditional values fostered by MINOX. It combines functionality in the smallest possible space with the best optical quality. Simple and fast operation make the MINOX DTC 450 ideal for digital photography and videos in the intended field of use.

These instructions are to help you make the most of the full range of performance of your game camera MINOX DTC 450.

Get to know your MINOX DTC 450
Please take a few moments to read these guidelines as well as the safety and maintenance instructions.

Enjoy your new camera !

Included in the purchased package

- Wildlife camera MINOX DTC 450 SLIM
- Mounting strap
- USB cable
- Instruction manual

Content

Product features

- 12 megapixel resolution
- Convenient 2" colour display
- 30 powerful infra-red LEDs
- High shutter speed: < 1 Sek. / sec.
- Invisible IR-flash with black filter
  and a range of 15 m / 49 ft.
- Low energy consumption
- Up to 9 consecutive images and videos
  up to 60 seconds
- SD memory card up to 32 GB
- Simple, intuitive handling, 6-key control panel
- Live preview and photo/video playback
- Password protected

MINOX DTC 450 SLIM
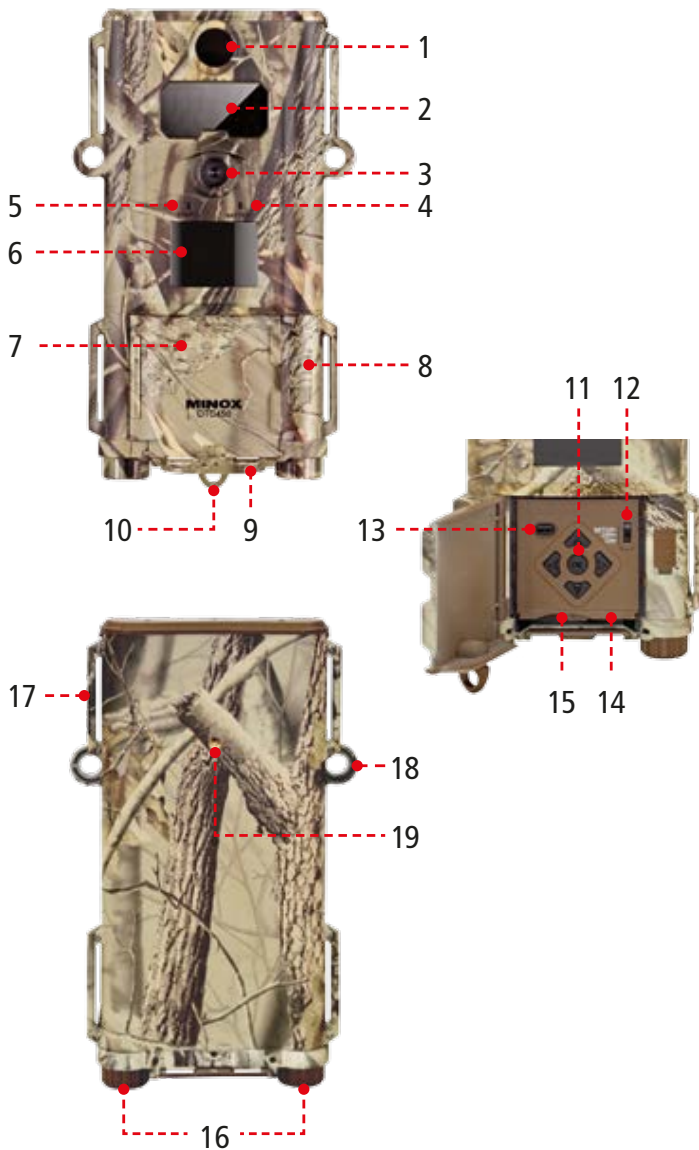
Parts and Controls

1. Motion sensor
2. IR LEDs for night shots
3. Camera lens
4. Battery level LED
5. Status LED
6. 2" LCD colour display
7. Controls cover
8. Unlocking mechanism for controls cover
9. Locking latch with recess
10. Rotating latch (suitable for padlock)
11. Control buttons, OK button
12. Main switch with three switch positions:
    OFF / SETUP MODE / OPERATING MODE
13. Menu button
14. USB cable connection
15. Memory card slot
16. 2 battery compartments – four 1.5 V AA batteries
    on each side (eight 1.5 V AA batteries all together)
17. 4 mounting strap loops
18. 2 rings for securing the camera with
    a cable and lock
19. 1/4" tripod thread

Preparing your camera

Explanation of the controls

Proceed as follows to prepare the camera for the required use:
1. Hold your DTC 450 in one hand.
2. Turn the latch (10) by 90° so that the recess for the lock is hidden when you look at the camera head-on.
3. Flip the locking latch (9) away from the camera.
4. Slide the unlocking mechanism for the controls cover (8) down once and release it again.
5. Hold the latch (10) between 2 fingers and flip open the controls cover (7) to the left side.

The controls are located behind the controls cover (7). They comprise the following: Four arrow keys for menu control (11), in the centre of which is the OK button (11) used to confirm the selected menu setting. The oval menu button (13) for more switching options can be seen in the top left area. In the top right area is the main switch (12) with three switching positions:
1. Function "OFF": main switch in centre position
2. Function "SETUP = setup mode": main switch in top position
3. Function "ON = operating mode": main switch in bottom position

You will find the memory card slot (15), as well as the USB connection (14) to connect the camera to a computer (described under item "Connecting the camera to a computer") located on the bottom of the device. In the area above the controls cover (7) is a 2" LCD display (6) and the two status LEDs for the operating status and the battery charge level (5,6). The two battery compartments (16) are located on both sides of the camera housing and are fitted with screw cap closings.

The motion sensor (1) is located above the IR LEDs (2) for the night shots. The motion sensor (1) is divided into vertical cells that extend over the entire height of the sensor. The DTC 450 only triggers when movement is detected in more than one of these cells. Ideally, the camera should be mounted is such a way that any movement (such as from an animal) activates several cells at the same time. Should an animal move directly towards the camera, it is possible that the camera will not be triggered, as the movement might be activating just one cell.

To close the camera housing, proceed as follows:
1. Hold your DTC 450 in one hand.
2. Hold the latch (10) between two fingers and flip the controls cover (7) shut to the right side.
3. Apply light pressure until it clicks into place.
4. Then flip the locking latch (9) forwards and insert the latch (10) through the hole provided.
5. Turn the latch (10) by 90° so that the recess for the lock can be seen when you look at the camera head-on.

Inserting the batteries
Your DTC 450 camera is designed for alkaline, lithium or nickel-metal hydride (NiMH) AA batteries. To insert the batteries, unscrew the two battery compartments (16) counter clockwise. Insert 4 x 1.5 volt AA batteries into

each of the two battery compartments (16) as instructed. Pay attention to the correct insertion direction/polarity (+/-). Close the two battery compartments (16) again by tightening the screw caps in a clockwise direction.

Note: The battery compartments (16) of the DTC 450 SLIM are locked if the control elements flap (8) is closed. To open the battery compartments, it is imperative to unlock and open the flap (7).

Note: Your DTC 450 Wildlife Camera is a high precision device of premium technical quality. It is recommended that you use premium quality alkaline, lithium or NiMH batteries.

Checking the battery level
Switch your DTC 450 to the "Setup mode" (main switch (12) top position). Using the down arrow key (11), select the menu option "Photo/video playback" and confirm this by pressing the OK button (11). The battery level will be shown in the top left area of the LCD display (6).

Another way to check the battery level is by selecting the menu option "Camera info" using the up/down arrow keys (11) and confirming with OK (11). In the submenu the battery level is displayed as a percentage.

Note: We recommend using high efficiency batteries for optimum performance. You can prolong battery life if you create shorter video sequences.

Note: The battery status LED (4) is activated when the battery starts to run out.

Installing the memory card
You need a memory card (SD/SDHC card) in order to store images or video clips. Your DTC 450 camera supports memory cards of up to 32 GB.

Insert the memory card into the memory card slot (15) with the brass coloured contacts toward the inside of the camera. Ensure that the SD card is not write-protected (SD card slider is not in the "lock" mode). Switch your DTC 450 to the "Setup mode" (main switch (12) top position). When your DTC 450 camera shows "No SD card" in the display, this means that either no memory card has been inserted, it was not correctly inserted or it is not compatible. You can continue with the camera settings when you return directly to the main menu.

Language setting
The DTC 450 Wildlife Camera is set to English by factory default. To change the menu navigation to a different language, please follow these steps:
1. Move the main switch (12) to the switch setting "SETUP" mode.
2. After a short period, the main menu will appear in English with the first menu option "Live preview" (highlighted in black).
3. Press the up arrow key three times (11).
4. You are now in the menu option "Language" highlighted in black.

5. Press the OK button (11).
6. Using the down arrow key (11), choose the language you would like to use (highlighted in black).
7. Press the OK button (11).
8. The camera returns to the "Main menu". The l anguage is now set to the one you have selected.

Mounting the camera

On the outer casing of the camera there are two strap mounts (17) attached to each side which can be used to mount the camera. The mounting straps included in the delivery are fed through the strap mounts (17). The camera is fastened with the latches on the mounting straps. Additionally, the camera can be secured using standard cables by feeding them through the eyelets provided (18).

Setup and operating mode

Your camera has two mode settings:

1. Setup mode

Switch your DTC 450 camera to the "Setup mode" (SETUP = setup mode, main switch (12) in top position). In this setting you can adjust the programming of the camera as well as all display settings such as date, time, temperature etc. that are to be later displayed on the photos or video clips.

2. Operation mode

Switch your DTC 450 camera to "operating mode" (ON = operation mode, main switch (12) in bottom position). In

this mode, your DTC 450 camera automatically accepts the new settings which you previously programmed in the "Setup mode".

Note: The red activating LED (5) will blink for a few seconds before the camera is ready for use and you will see the actual shooting area on the display screen.

Menu functions and settings

Preview

In the main menu, go to the menu option "Live Preview" and press the OK button (11). This option allows you to display a current image on the LCD display (6) of your DTC 450 camera (3). The function is useful for alignment of the DTC 450, since you can identify the shooting area when you are not directly in front of the lens (3). In the LCD display (6), the following is displayed: The battery status symbol and the symbol for the inserted SD card are indicated on the top right area. If the SD card is not inserted, your DTC 450 reports the "No SD card" message when you switch to setup or operating mode. Press the menu button (13) to access the main menu again.

Playback photo/video

In the main menu, go to the menu option "Playback photo/video" and press the OK button (11). The number of photos or video recordings is displayed in the LCD screen (6). If the shot is a video, the play symbol, camera symbol and stop symbol will be displayed in the top

left area of the image. If the shot is a photo, only the play symbol will be displayed. The number of pictures or video recordings will be shown in the lower right area of the LCD display (6). By pressing the left/right arrow keys (11) you can display the pictures and videos forwards or backwards in chronological order. Press the menu button (13) to access the main menu again.

Delete photos or videos
In the main menu, go to the menu option "Playback photo/video" and press the OK button (11). Select the picture to be deleted. Press the down arrow key (11) to access the submenu. You can use the up/down arrow keys (11) to choose "Yes" and "No". Select "Yes" and confirm with OK (11) to delete the file. Select "No" and confirm with OK (11) to not delete the file. You will be brought back to the "Playback photo/video" submenu.

Replaying video clips
In case of video files, you can see a "Video icon" in the top left area of the LCD display (6). Press the up arrow key (11) to play the video. Press the up arrow key (11) again to pause the video and reset to the beginning. Press the menu button (13) to access the main menu again.

Camera mode
You can set your DTC 450 to record only photos or only videos. In the main menu, select menu option "Camera mode". Press the OK button (11) to access the submenu. Here you can select the desired recording format (photo/video) using the up/down arrow keys (11). Press the OK button (11) again to save the setting and to return to the

main menu. To return to the main menu without changing the previous settings, press the menu button (13).

Photo resolution
In the main menu, select the menu option "Photo resolution". Press the OK button (11) to access the submenu. This setting allows you to set the image resolution at 0.9 MP, 3 MP, 6 MP or 12 MP. In the submenu, you can select the desired image resolution using the up/down arrow keys (11). By pressing the OK button (11), the setting is saved and you are returned to the main menu. Press the menu button (13) to return to the main menu without changing the previous settings.

Video length
In the main menu, select the menu option "Video length". Confirm with the OK button (11) to access the submenu. By pressing the up/down arrow keys (11) you can set the video length (10 seconds to 1 minute). Select the desired video length. By pressing the OK button (11), the setting is saved and you are returned to the main menu. Press the menu button (13) to return to the main menu without changing the previous settings.

Photo burst
Using this function, the camera can capture up to 9 frames per trigger in quick succession. In the main menu, select the menu option "Photo burst" and press the OK button (11). This will take you to the submenu. The submenu offers the option of selecting the desired number of frames to be captured per trigger by pressing the up/down arrow keys (11). By pressing the OK button

(11), the setting is saved and you are returned to the main menu. Press the menu button (13) to return to the main menu without changing the previous settings.

Delay interval

This function allows you to specify the length of the time between two pictures when your camera does not respond to movement. The options for programming the sequential shooting intervals extend from 5 s, 10 s, 20 s, 30 s, 1 min, 5 min, 10 min, 30 min and 60 min. In the main menu, select the menu option "Delay interval" and press the OK button (11). This will take you to the submenu. In the submenu, choose the desired time interval using the up/down arrow keys (11). By pressing the OK button (11), the setting is saved and you are returned to the main menu. Press the menu button (13) to return to the main menu without changing the previous settings.

Temperature

This function allows you to set either Fahrenheit or Celsius as the unit of temperature. In the main menu, select the menu option "Temperature" and press the OK button (11). This will take you to the submenu. Press the up/down arrow keys (11) in the submenu to select the "Fahrenheit" or "Celsius" option. By pressing the OK button (11), the setting is saved and you are returned to the main menu. Press the menu button (13) to return to the main menu without changing the previous settings.

Date/time stamp

This setting allows you to mark and display information such as date, time and temperature as a "time stamp"

on every recording (photo/video). In the main menu, select the menu option "Date/time stamp" and press the OK button (11). This will take you to the submenu. In the submenu you can choose between "Yes" (display time stamp) or "No" (do not display time stamp). By pressing the OK button (11), the setting is saved and you are returned to the main menu. Press the menu button (13) to return to the main menu without changing the previous settings.

Setting the date/time

This function allows you to set the current date and time. In the main menu, select the menu option "Set date/time" and press the OK button (11). This will take you to the submenu where you can perform the following settings:

Date:

The date is specified in the format of DD/MM/YYYY. In the first row of the input field you can set the current date. The value in the selected field can be adjusted by pressing the up/down arrow keys (11). By pressing the right arrow key (11) or confirming with OK (11) you can move to the next input field. Use the left arrow key (11) to return to an input field, or to perform any changes.

Time:

In the second row of the input field you can set the current time. To access this row after entering the year, press the right arrow key (11) or confirm the year with OK (11). To adjust the values proceed as described for setting the date. The time is specified in the format Hour : Minute (00:00 – 24:00 h).

When you have made all settings, press the OK button (11) to save your settings. Press the menu button (13) to return to the main menu without changing the settings.

Note: Activate the moon phase calendar by entering precise information. The image of the moon phase will appear on every picture or video clip.

Password

This function allows you to enter a 5-digit number combination to safeguard your DTC 450 against possible misuse. You will not be able to access the "Setup mode" (SETUP = setup mode, main switch (12) in top position) for the camera without entering the number combination. In the main menu, select the menu option "Password" and press the OK button (11). This will take you to the input field. Enter the desired number combination from the numbers 0 to 9 in each field using the arrow keys (up/down) (11); use the arrow keys (left/right) (11) to access the individual fields of the number combination. Alternatively, you can also confirm each number after entering with OK (11) to move to the next field. Once you have entered the complete number combination, press the OK button (11) to save it. The last entry field of the number combination must be selected in order to save. Press the menu button (13) to return to the main menu without assigning a password.

Note: Password protection is not activated if you assign five zeros (00000) in the input field and press OK (11). To deactivate a password assigned by you, change this therefore to "00000" and confirm with OK (11).

Formatting the memory card

Formatting the memory card will delete all data on the memory card and will prepare the memory card for use in the camera. In the main menu, select the menu option "Format SD card" and press the OK button (11). This will take you to the submenu. Select "Yes" if you would like to format the memory card and confirm with OK (11) to carry out the formatting. If you select "No" and confirm with OK (11), the memory card will not be formatted. In both cases you will return to the main menu. By pressing the menu button (13) you will be returned to the main menu without having to make a selection. No formatting of the SD card will be undertaken.

Default factory settings

With this menu option, you can restore your DTC 450 settings to factory settings. In the main menu, select the menu option "Default settings" and press the OK button (11). You can select "Yes" or "No" using the up/down arrow keys (11) and confirm with OK (11). Select "No" to retain the existing settings and the camera will return to the main menu. If you choose "Yes" and confirm with OK (11), your DTC 450 will be restored to the factory settings and revert to the main menu. By pressing the menu button (13) you will be returned to the main menu without having to make a selection. The camera will retain the current settings.

Language selection

To change the language setting of your DTC 450, please follow these steps:

1. In the main menu, select the menu option "Language" using the up/down arrow keys (11).
2. Confirm with OK (11).
3. Using the up/down arrow keys (11), select the desired language (highlighted).
4. Press the OK button (11).
5. The camera has now saved the language you have selected and you are returned to the "Main menu".

Note: By pressing the menu button (13) you will be returned to the main menu without having to make a selection. The camera will retain the current language.

Software update
If a software update is available for your DTC 450, please proceed as follows:

Make sure your DTC 450 is switched off ("OFF" function: main switch (12), in centre position). Copy all the files needed for updating to your PC into the root list of a formatted SD card. Insert the SD card into your DTC 450 as described in the section "Inserting the memory card". Switch your camera to "Setup mode" (SETUP = setup mode, main switch (12) in top position). In the main menu, select the menu option "SD Card Update". Press the OK button (11) to access the submenu. Using the up/down arrow keys (11), you can now select "Yes" or "No" and confirm with OK (11). Select "No" to retain the existing software version and the camera will return to the submenu. If you select "Yes" and confirm with OK (11), your DTC 450 will begin installing the update.

The update installation is completed once your camera displays the MINOX start screen and enters the main menu.

Note: Please note that the process described above must be followed precisely. Any deviation or infringement may cause the update configuration to fail. You may not be able to use the camera. In that case, all warranty claims will be void.

Camera information
In the main menu, select the menu option "Camera information" and press the OK button (11). The following information items are displayed:

1. Number of photos
2. Number of videos
3. Free memory space
4. Battery level

Press the menu button (13) to access the main menu again.

Connecting the camera to a computer

There are two ways of transferring the data to your computer: either you can take out the SD card and read it on the computer or you can connect the DTC 450 to your computer using the supplied USB cable.

Connecting using the USB cable
Always ensure that the camera is switched off (main switch (12) in centre position ("OFF")) before you connect

it to your computer. Connect your camera to the computer using the supplied USB cable via the USB cable slot (14). Switch the camera to "Setup mode" (main switch (12) in top position ("SETUP")). The camera will be recognized as a removable medium – pictures or video clips can be directly viewed or transferred to the PC.

Transferring pictures and videos via SD card
Always ensure that the camera is switched off (main switch (12) in centre position ("OFF")) before the SD card is removed from the camera slot (15), otherwise the memory could be damaged. Take the memory card from the slot (15) in the camera and insert it in the memory card reader connected to your computer. Some computers also have an internal slot for SD cards. In such a case, the SD card can be directly connected to your computer. The pictures or video clips can now begin to be transferred to the computer.

MPEG-4 Visual Patent Portfolio License

This MINOX DTC 450 SLIM is licensed under the MPEG-4 Visual Patent Portfolio License for personal and non-commercial purposes to

1. encode video in compliance with the MPEG-4 standard and/or
2. decode MPEG-4 video that was encoded by a consumer engaged in a personal and non-commercial activity and/or was obtained from a video provider licensed to provide MPEG-4 video.

For other purposes, no license is granted or implied for the MPEG-4 standard.

Technical information

Image sensor	3.0 MP Resolution, CMOS Sensor
Image resolution	Adjustable: 12 MP (interpolated), 6 MP (interpolated), 3 MP, 0.9 MP
Shutter lag time	< 1 Sek. / sec.
Continuous shooting	1 - 9 images every shutter button actuation (adjustable)
Video resolution	1280 x 720 HD
Video length	10 - 60 sec. (adjustable)
High power IR flash	Range of over 15 m / 49 ft.
Display	2" TFT color display
Day shots	In colour
Night shots	Black and white
User friendly interface	6-button control
Realtime screen display	Photo/video playback
Settings	Date, time, temperature, lunar phases on each image/video
External memory	SD/SDHC card with up to 32 GB
Ports	USB port
Cable	USB cable (included in scope of delivery)
Battery	8 x 1.5 V AA batteries / Alkaline, Lithium or NiMH
Password protection	5-digit number combination
Fixing aid	Mounting strap
Dimensions (H x W x D)	210 x 110 x 27 mm / 8.27 x 4.33 x 1.06 in.
Weight (without batteries)	320 g / 11.29 oz.
Order number	60725

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