

User manual

23.03.2023

V4, V4+, V4 Pro

General information

Customer support

The Cambox team is committed to offer the best service as possible to its customers. You can contact our customer support at bonjour@cambox.eu or from our online chat on our website www.cambox.eu

Registered brands and patents

The CAMBOX brand and all its derivatives are registered and protected brands with international copyright laws. The Cambox camera concept is protected with several international issued patents :

France : FR 3005714 // USA patent : US 2016:0119512

AUS patent : AU 2014267077 // European Union : EP 2997294

For more information about registered brands and patents, you can email us at bonjour@cambox.eu

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Table of contents

| | |
|----------------------------|----|
| Your Cambox | 4 |
| Quickstart guide | 5 |
| Battery charging condition | 6 |
| Functionalities | 7 |
| Light indicators summary | 11 |
| Fasten your Cambox | 12 |
| Remove your Cambox | 13 |
| Set the viewing angle | 14 |
| Transfer your files | 15 |
| Cambox Smartphone App | 16 |
| Settings list | 25 |
| Trouble shooting | 27 |
| Instructions to respect | 29 |

For more information and to access our support pages

Click on below button :

[**Access to support**](#)

Quickstart Guide





Welcome.



Get your Cambox V4 & V4 Pro ready for action.

The Cambox is easy to set up.


1 Charge your camera

 Use an electrical wall charger 5V 1A


 Charging time of 4 hours (approximatively)


-  Solid green LED
Battery charged
-  Solid red LED
Battery charging

2 Insert a memory card


 Compatible with MicroSD, SDHC or SDXC memory cards


- Min capacity : 16 Gb
- Max capacity : 256 Gb


 The camera and the application will not be operational without memory card.

 Flashing purple light
Memory card full, absent or defective

3 Install the Velcro® mounting

 Leave your helmet and the Velcro mounting in a dry and temperate place (18 to 23°C)


 Wait 4 to 5 hours before any gluing or use !

 Proceed to the gluing of the velcro mounting on your helmet


5 Connect your smartphone



Press once on the wifi button

 Flashing orange LED
Wifi activated, waiting for pairing

 Search for Cambox wifi network and enter the password : 12345678




 Solid orange LED
Smartphone connected to your Cambox

Open the Cambox application.

4 Start your Cambox



Press 3 seconds on the round button

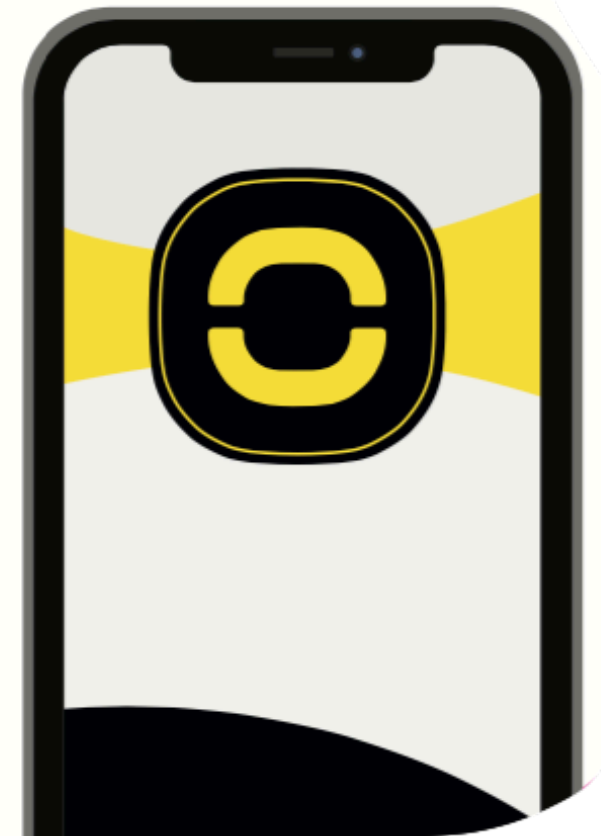
-  Solid white LED
Camera initialization
-  Flashing green LED
Record in progress
-  Solid red light
Record paused

6 Start our application

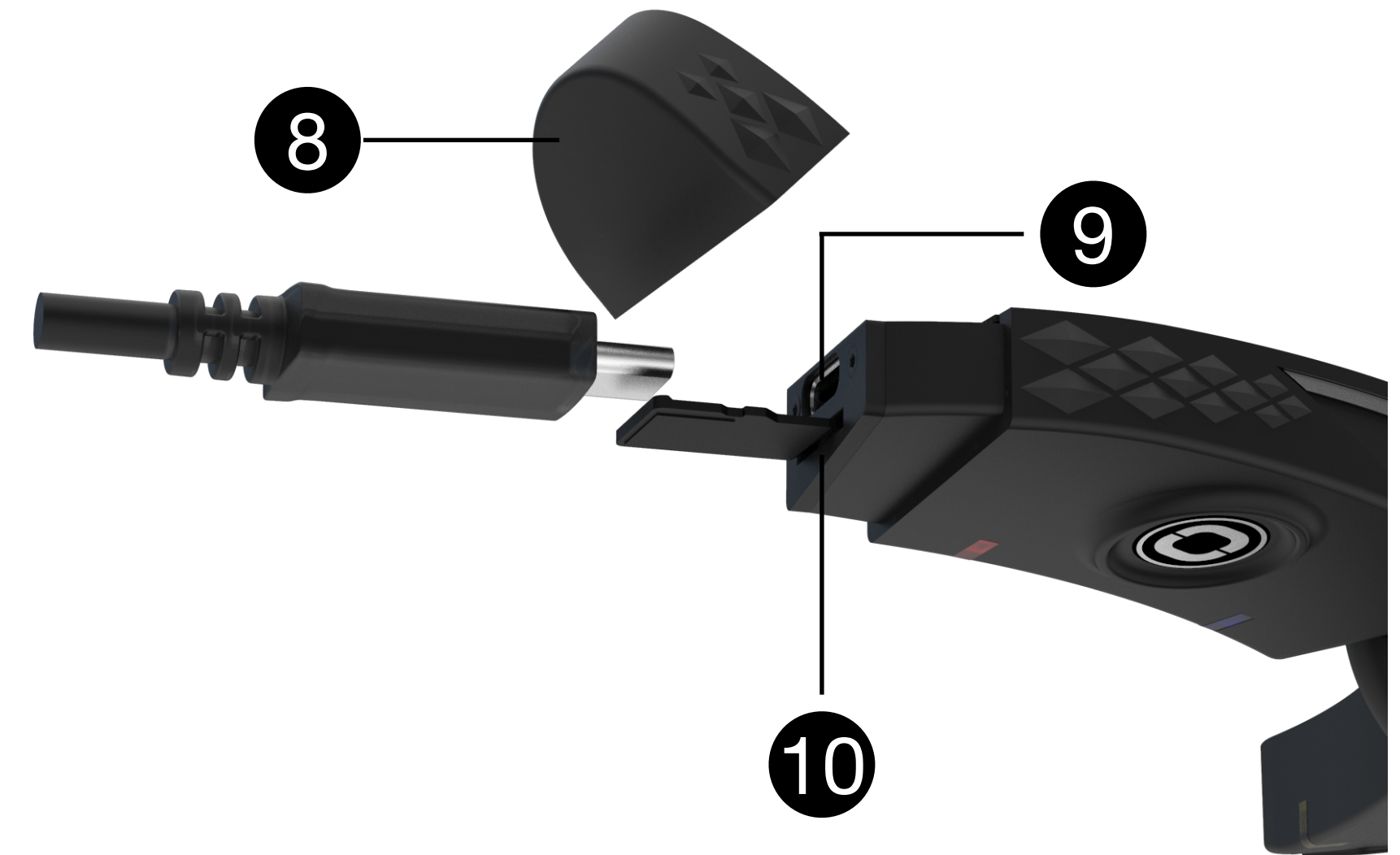
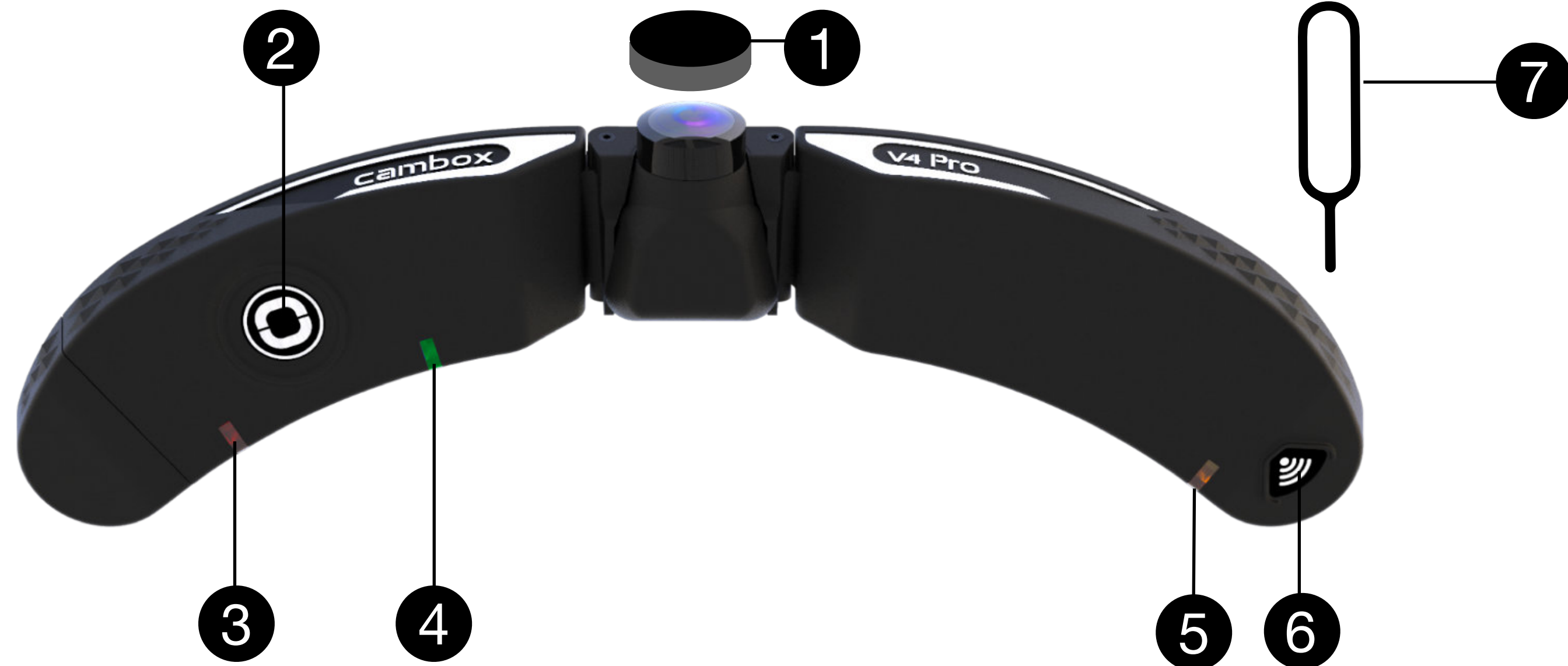
Unlock the full potential of your Cambox by downloading our application « Cambox App »

 Available on the Google Play

 Download on the App Store



Your Cambox



- 1 Lens protective cap
- 2 On/Off button & Pause
- 3 Battery status LED
- 4 Camera status LED
- 5 WiFi indicator LED
- 6 WiFi button

- 7 Reset pin
- 8 Protective cap
- 9 USB-C port: battery charge & files transfer
- 10 Micro SD card port

Battery charging condition

► The power supply

Use a power adapter or USB port on a PC to recharge the battery. Regarding the adapter, he must meet these conditions* :

1. Input (to the main outlet)
 - 100 - 240 V
 - 50/60 Hz
 - 0.32A (320 mA) - 0,50A (500mA)
2. Output (to the charging cable)
 - 5 V Max
 - 1 A (1000 mA) Max
 - 5 W Max



**This data is visible on all adapters, regardless of brand (see above picture)*

► Ideal conditions for charging

The ambient temperature as well as the camera temperature must be between 10°C and 45°C.

To ensure proper charging of the internal battery, make sure that the Cambox is turned off during the charging cycle.

► Ideal condition for use

The ambient temperature as well as the camera temperature must be above -10°C.



IMPORTANT !

If these conditions are not met, the autonomy of the battery will decrease.

The battery capacity is 1100 mAh.

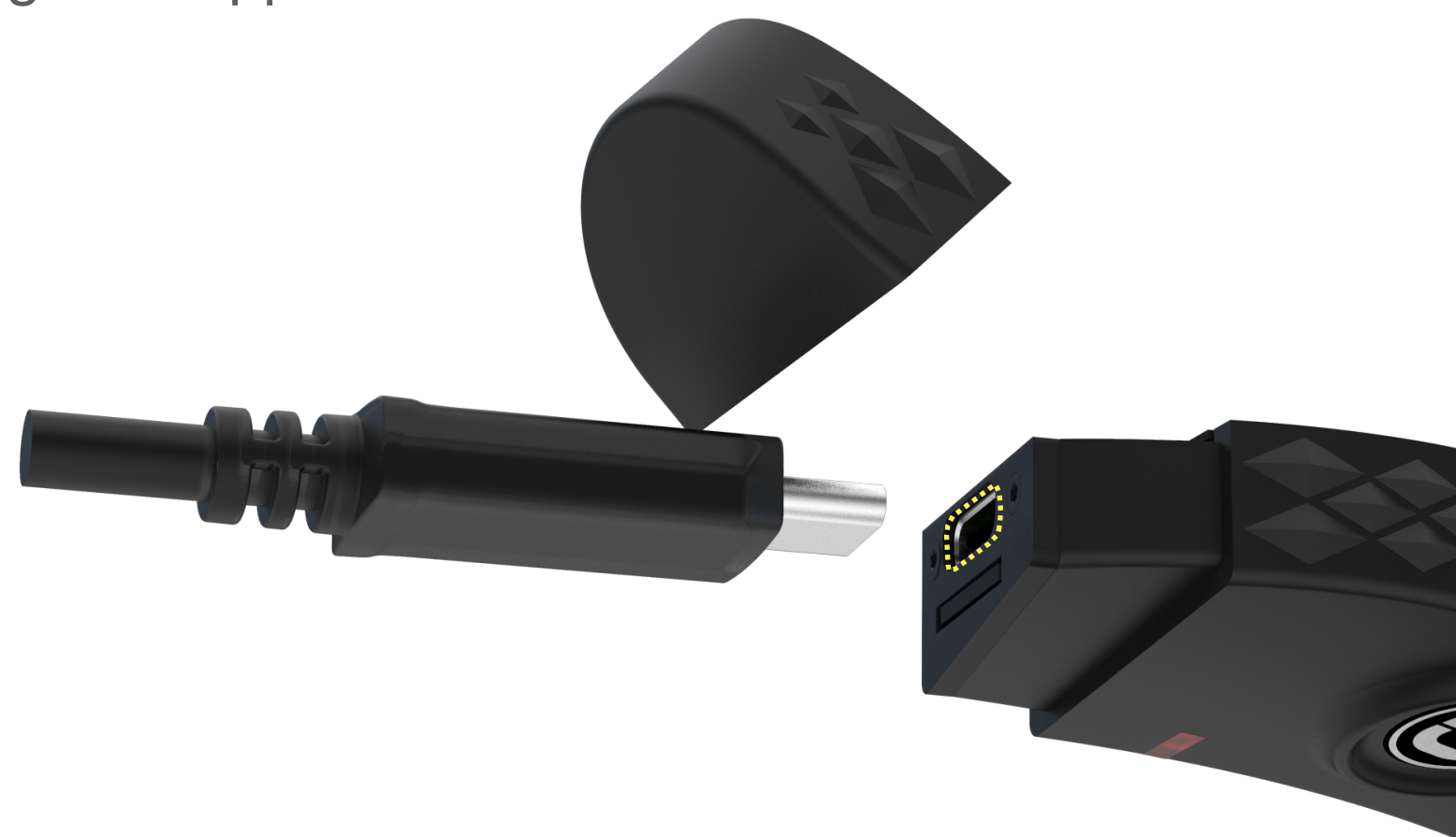
In order to keep the camera in working order, fully charge the battery every 3 months or so that it remains in optimal conditions of use.

Functionalities

▶ Battery charging

When delivered, the battery of your Cambox is partially charged.

1. Remove the cap **8** at the end of the camera
2. Charge the battery using the supplied USB-C cable.



Once connected, the battery status LED **3** turns red during all the charging process and then becomes solid green once battery is fully charged.

Approximately 4 hours are required to fully recharge the battery using a 230 V USB wall outlet.

Charging can also be done using an external power bank, a laptop USB port, or a car cigarette lighter, however with these methods charging will be much longer.

▶ Battery status

When the camera's battery level is too low, the **3** battery status LED changes :

- LOW : the LED flashes red
- CRITICAL : the LED turns solid red

When the Cambox reaches critical battery level, the video recording and the Wifi connection are automatically turned off.

You can check the battery level by launching the Cambox smartphone app.

CAUTION !



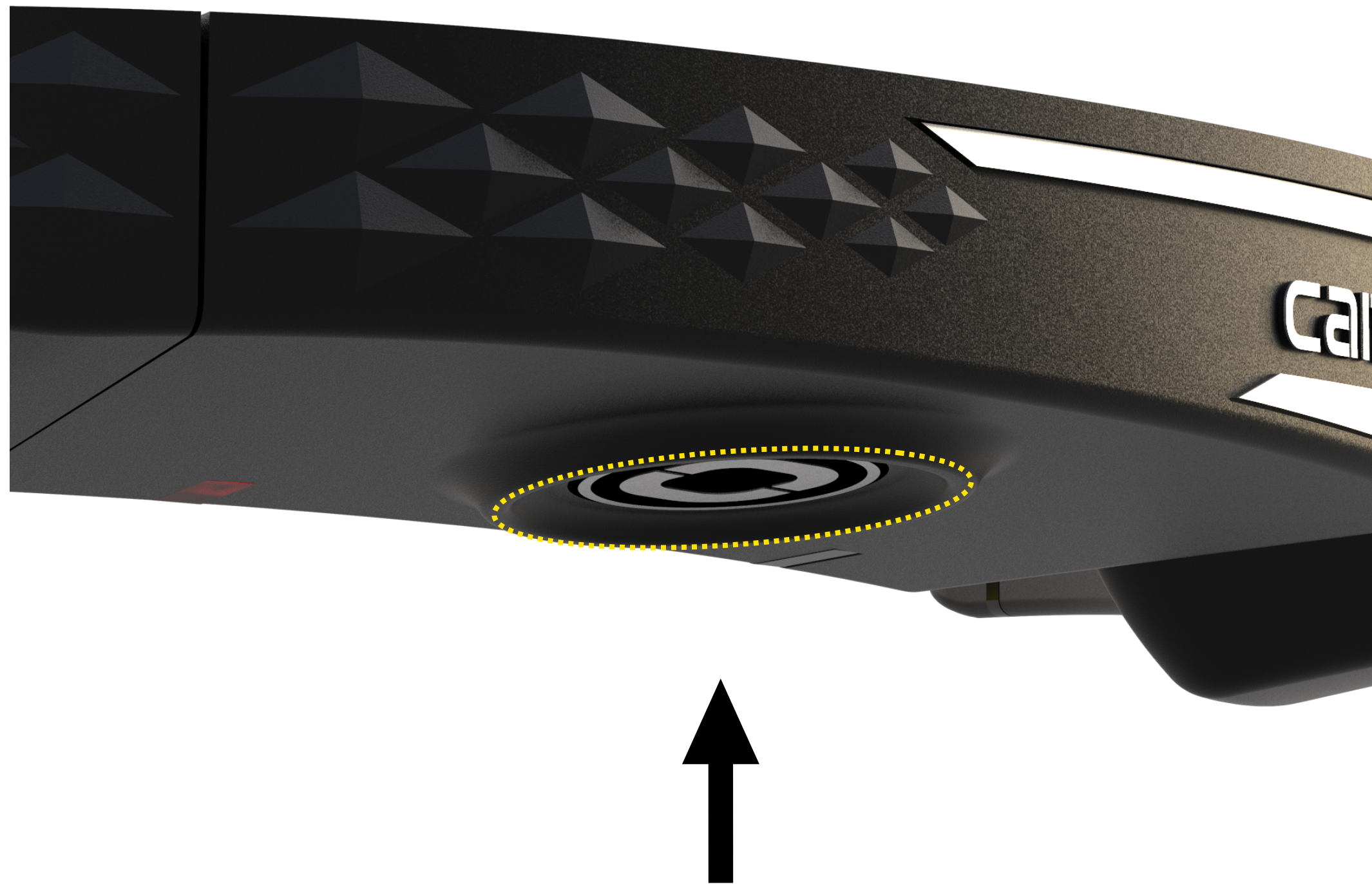
If your Cambox turns off automatically a few seconds after turning it on, this is due to either a low battery, a full or missing micro SD card (not enough free space available to record photos / videos on the card).

The battery can not be removed from the camera. When charging the camera using a computer, make sure the computer is also powered. If the camera light indicators do not turn on, please use another USB port.

Functionalities

▶ Power on / Start the camera

Push the ON/OFF button **2** for 1 second, the camera status LED **4** will turn solid white.



Before inserting the SD card in the SD slot, make sure the slot is clean or you might damage it.



By default, « auto record mode » is activated, the camera automatically starts recording when you turn it on.

When the Cambox is recording the camera status LED **4** is blinking green and you hear 2 vibrations.



Before using your Cambox, be sure to check the following points :

- 1) Is the battery fully charged ?
- 2) Is there enough free space on your micro SD card ?
- 3) Is the SD slot/USB-C port is well closed ?

Functionalities

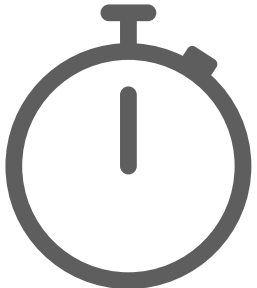
▶ Pause

To stop recording, perform a quick press on the ON/OFF power button **2** of your camera to switch to pause mode.

The camera emits a short vibration and the LED **4** changes from blinking green to solid red, confirming the camera has stopped recording. The camera is now on pause.



Perform a quick press



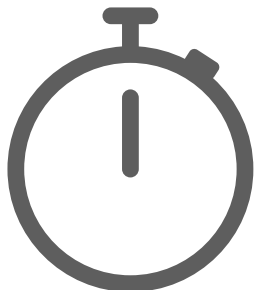
1/2 second

▶ Recording

When on pause mode, perform a quick press on the ON/OFF button **2** to start a new video.



Perform a quick press



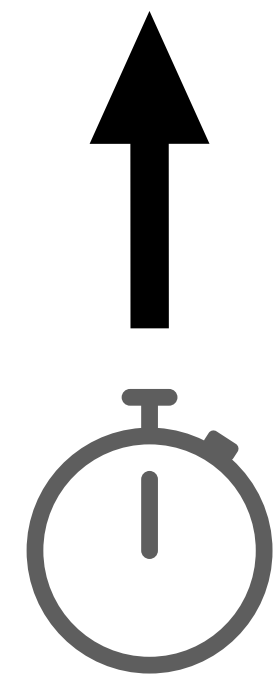
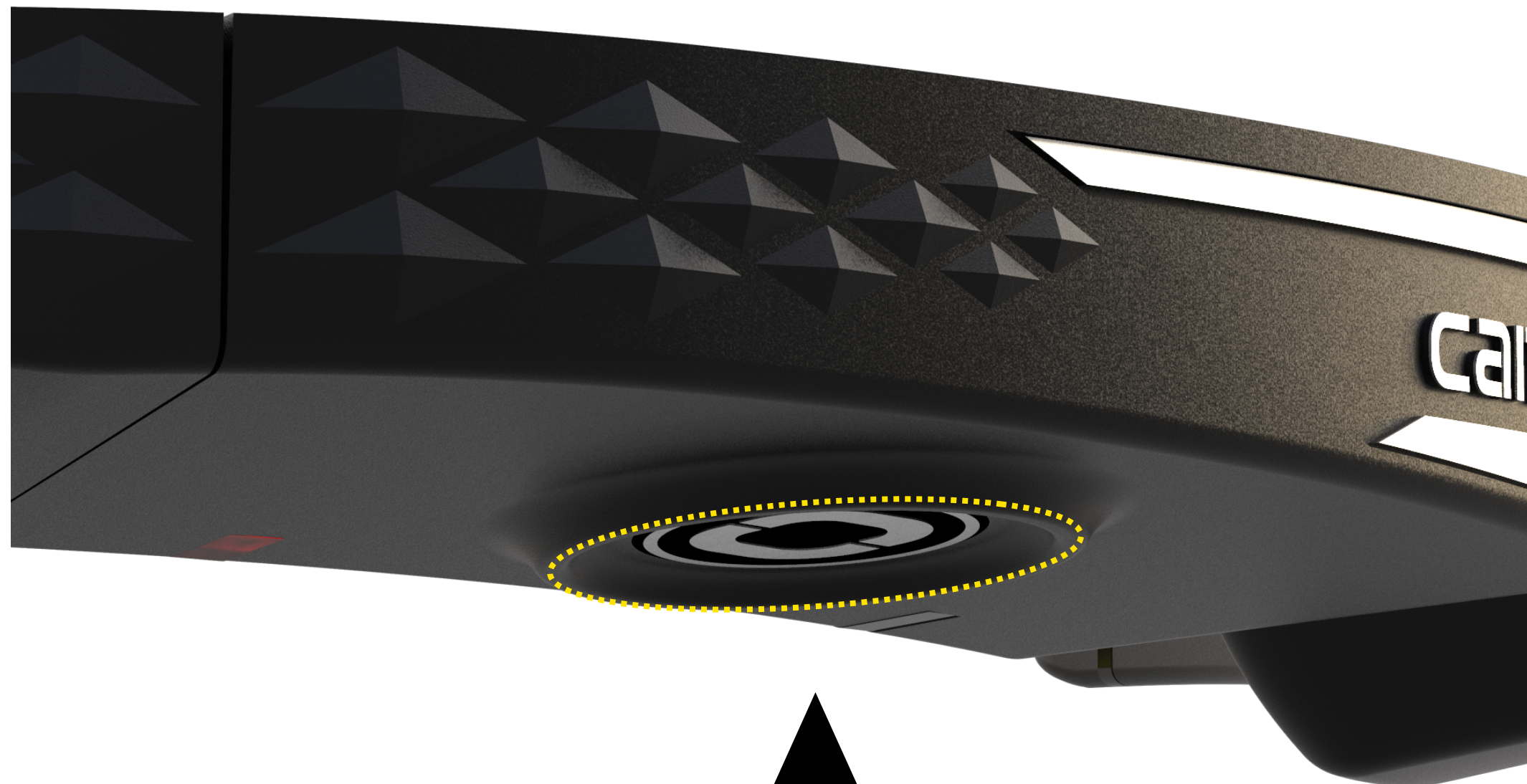
1/2 second

The camera vibrates twice and the LED **4** changes from solid red to blinking green, confirming that recording has resumed.

Functionalities

▶ Turn off / shut down the camera

Press the ON/OFF button for 5 seconds.



5 seconds



You hear a long vibration and the red LED **4** gradually decreases until the camera is completely turned off.

Light indicators summary



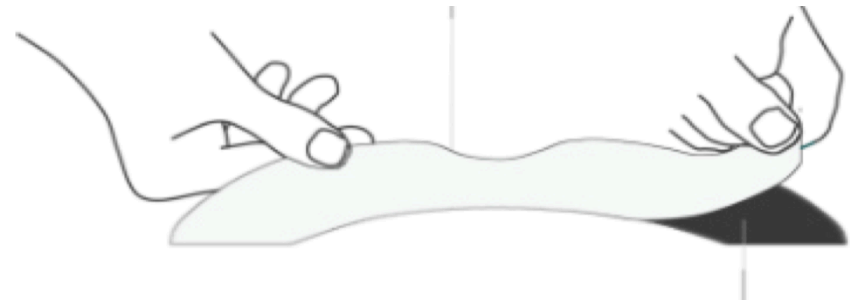
| | | |
|----------|---------------------------|-------------------------|
| 3 | Battery status LED | Description |
| | Flashing red | Low battery |
| | Solid red | Charging |
| | Solid green | Battery charged |
| 4 | Camera status LED | Description |
| | Solid white | Camera is starting |
| | Flashing green | Recording |
| | Solid red | Pause |
| | Flashing purple | Full or missing SD card |
| | Flashing blue | Preview mode activated |
| 5 | Wifi status LED | Description |
| | Flashing orange | Wifi connection pending |
| | Solid orange | Connected to wifi |



You can change the camera LED brightness through the Cambox App in the settings >

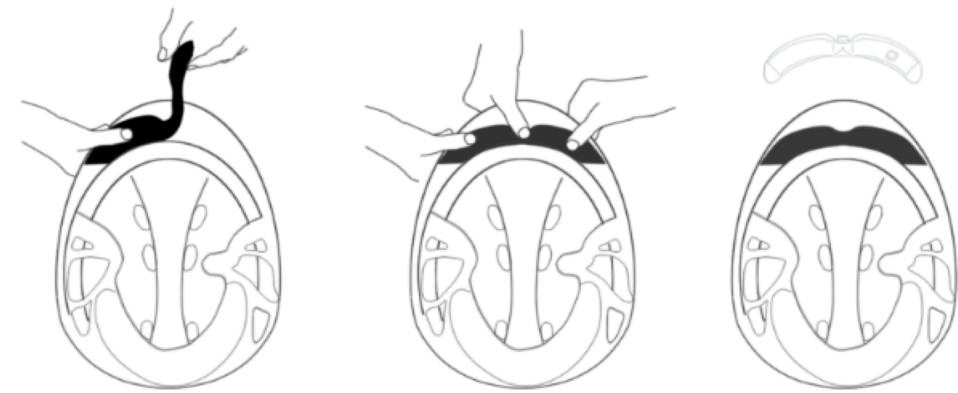
Ergonomics

Fasten your Cambox

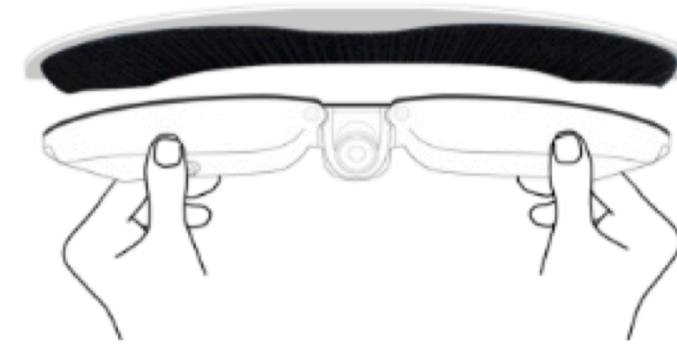


Prior to gluing, it is recommended to place the fastener under your visor in order to memorize its future position.

Remove meticulously the paper protection of the velcro in such a way that your fingers do not touch the adhesive part.



Place the velcro fastener under the visor and press strongly on all the surface to ensure a good bonding.



Present the Cambox horizontally in front of its velcro support.



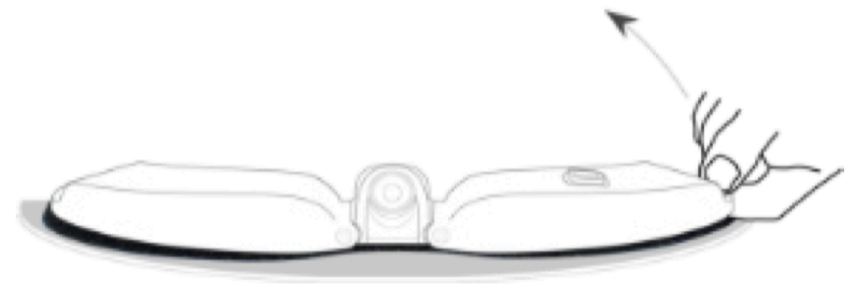
Apply a pressure on the 3 parts of the Cambox as depicted



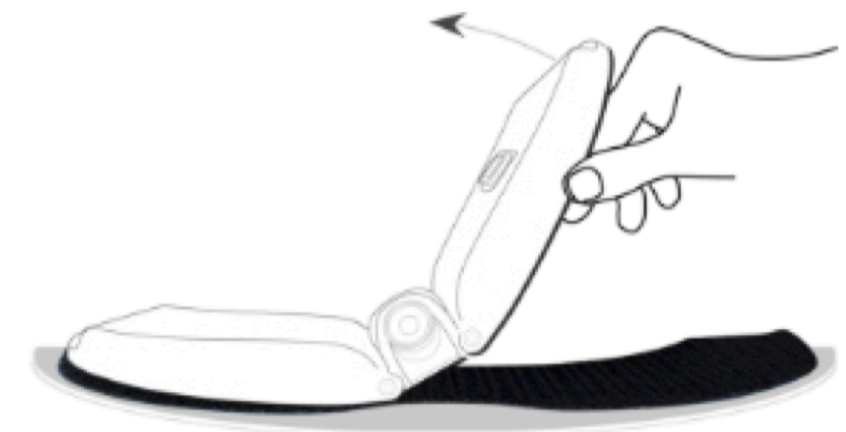
The Velcro fastener gluing needs to be done in a temperate and non moist atmosphere (approximately 15°C) to ensure maximum grip of the glue. It is also recommended to wait at least 4 hours before placing the Cambox on its clean and dry support !

It is advised to wait at least 4h after gluing before fixing your Cambox

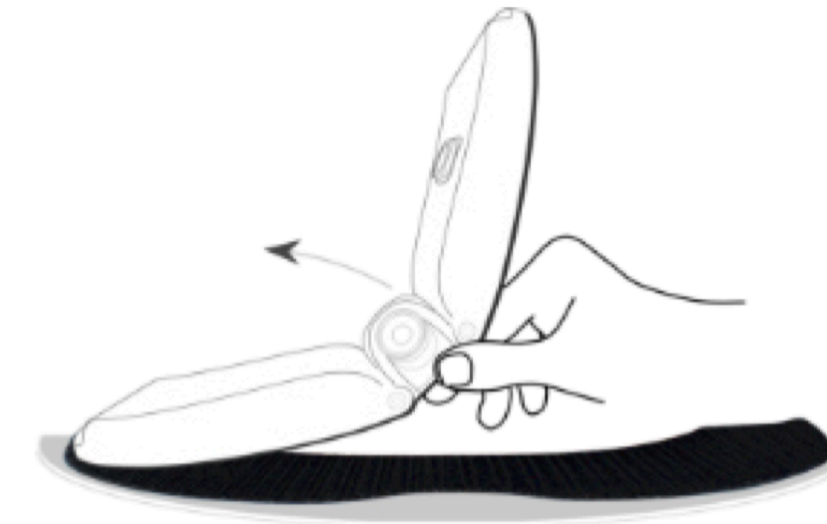
Remove your Cambox



Grab the strap on the edge of the Cambox wing and pull it upwards while doing a circular movement towards the center of the Cambox.



Once the first wing is detached from its velcro support, accompany the unfastening process of the Cambox by applying the same vertical and circular effort.



Remove the central part and apply the vertical and circular effort towards the extremity of the Cambox to complete removing the camera.



IMPORTANT !

The wings of the Cambox only articulate from up to down and v.v. Make sure not to fold them from front to back and v.v. or you might damage the articulations and/or the shell of your Cambox



Make sure that the velcro fastener support is in good condition and that there is no foreign matter that could hinder the fastening of the camera. In that case, plan the replacement of the velcro by a new original one.

Set the viewing angle

The central part of the Cambox has a tilting lens that allows you to modify the viewing angle on 20°.

You have access to 3 predefined angles thanks to some notches :

A : Horizontal angle of -5°

B : Horizontal angle of +5°

C : Horizontal angle of +15°



In order to accurately determine the desired viewing angle, download and install the Cambox App on your smartphone to check in real time your viewing angle thanks to the preview mode.



IMPORTANT !

The articulation of the lens has only 3 mechanical notches, make sure not to force beyond those.



During the viewing angle set up, be careful not to touch the camera lens with your fingers as this could result in blurred or degraded images. Before every use, it is recommended to clean the camera lens using the provided cleaning cloth.

Transfer your files

▶ Via USB cable



Turn on your Cambox as usual, then pause the record is the auto record is set on.
The power LED must be solid red
Plug the USB cable between your Cambox and your computer, it will automatically detect a new device.

▶ Via the SD card



Push briefly on the memory card to remove it from the Cambox.

If you have a micro SD card reader on your pad or smartphone, directly insert the memory card.



If you only have a SD reader on your SD computer, insert the micro SD in the supplied SD adapter.

▶ Via Wifi



Activate the Cambox Wifi by pressing the button **6**, the wifi LED **5** turns on and starts flashing indicating it is ready to be paired.

Search on your device the list of available Wifi networks and connect to the network named by default :

Cambox - V4xxx - xxxxxxxx

Enter the Cambox wifi password :

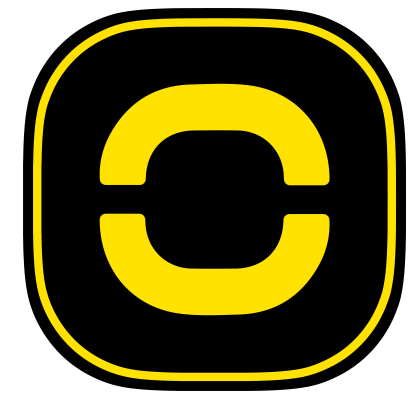
12345678

The Wifi LED **5** turns solid orange indicating that the Cambox is now connected to your device.



Once the device is detected, you will find a disk drive where your videos and photos are stored.

Cambox Smartphone App



Cambox App



Download the Cambox App from the App Store or the Google Play Store in order to change your camera settings.

Please note that some features are not yet enabled in the app and will be added in the next released updates.

This is why we are inviting you to install the future updates as soon as these are available in order to always benefit from the latest features and firmware evolutions.

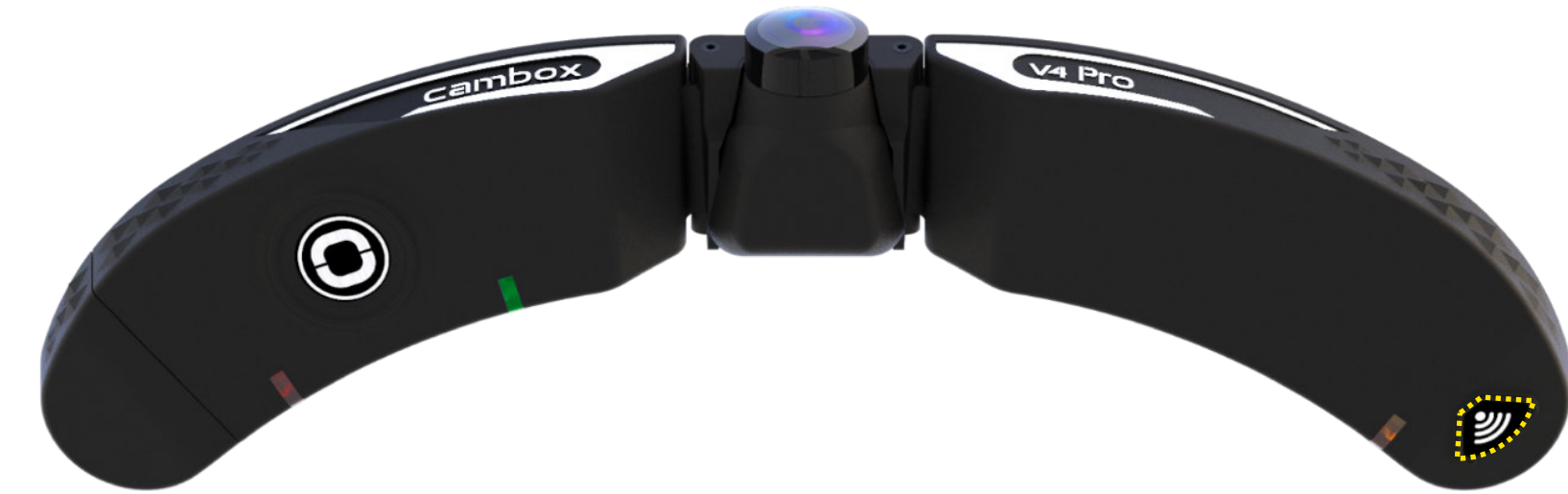
Activate the wifi of your Cambox

1. Turn on the Cambox



Press 1 second the On/Off button of your camera. Once the Power LED starts blinking green, press briefly the On/Off button again to pause the camera. The Power LED turns solid red.

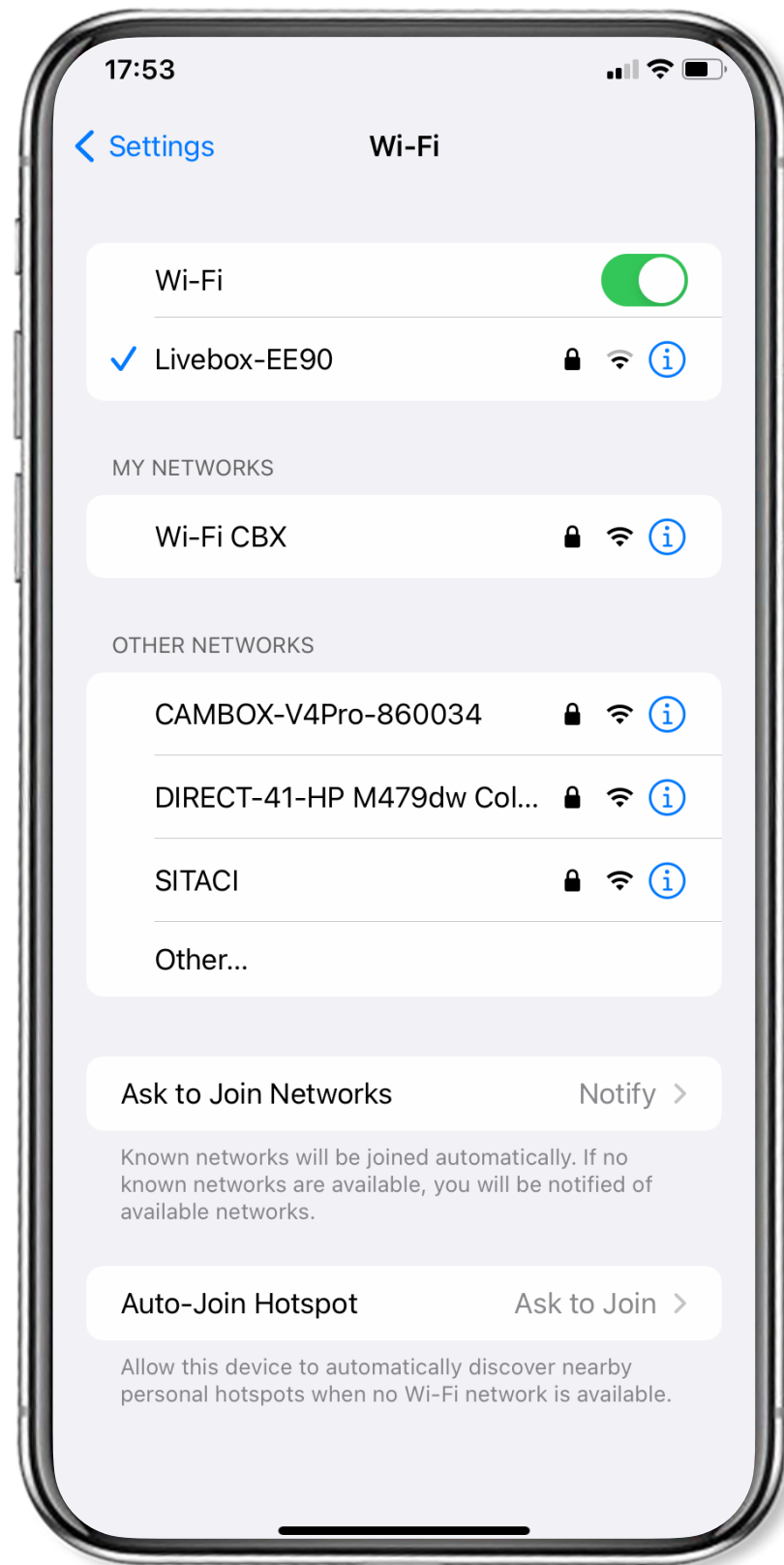
2. Activate the wifi of the Cambox



Push briefly the camera Wifi button. The Wifi LED then flashes orange.

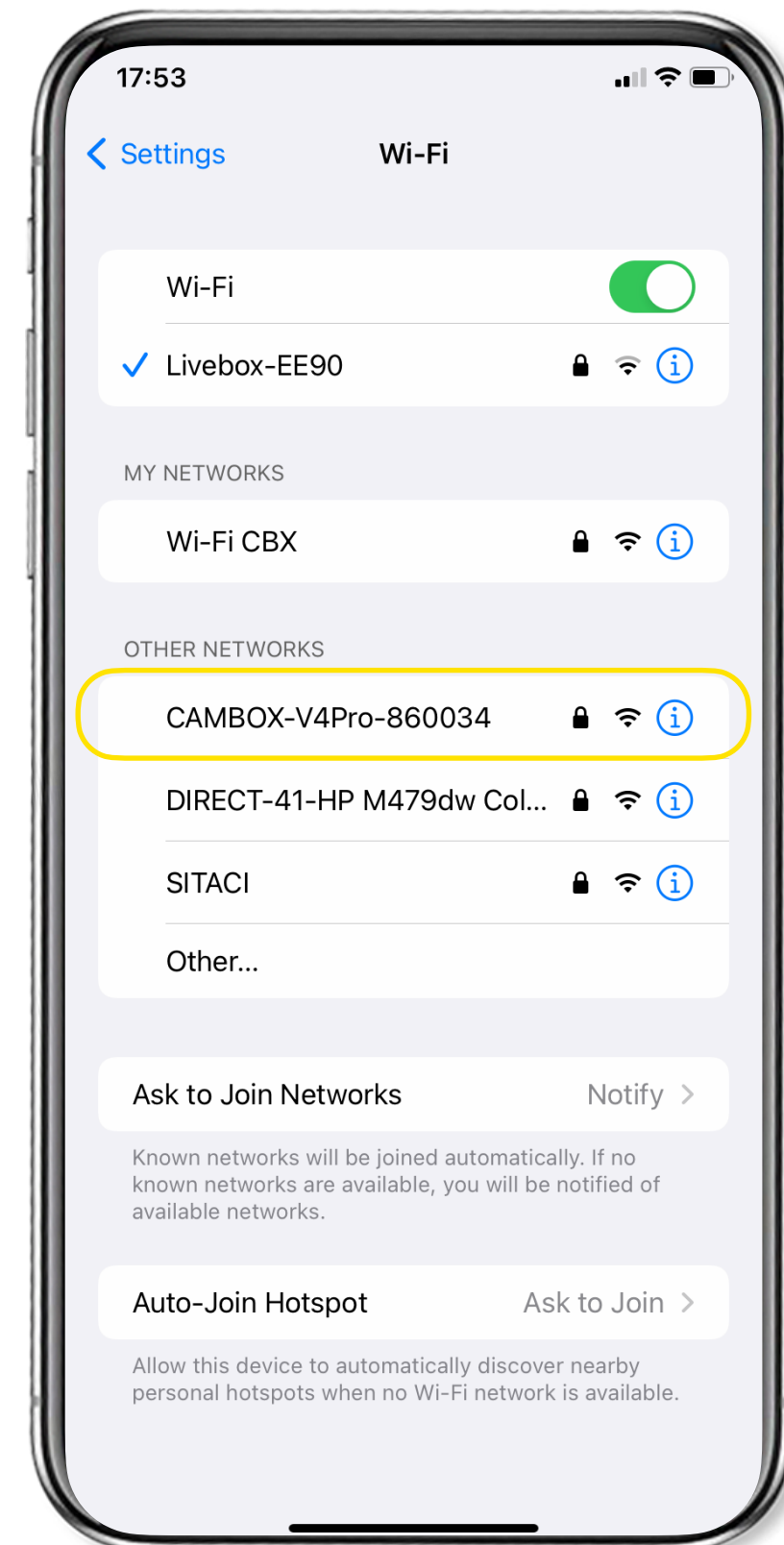
Connect your Cambox to your smartphone

1. Open your Wifi settings



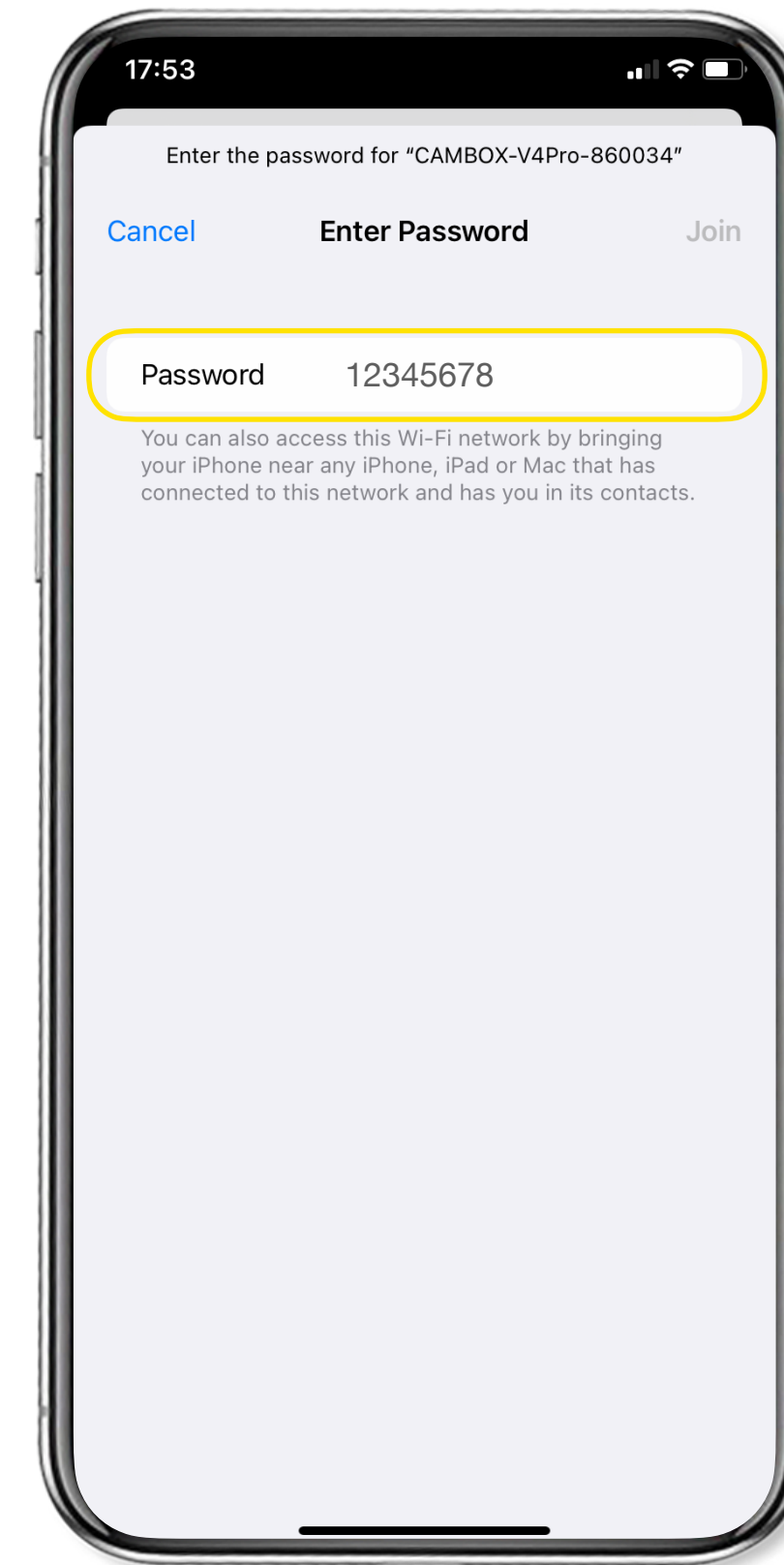
On your smartphone, open your Wifi settings

2. Select the Cambox network



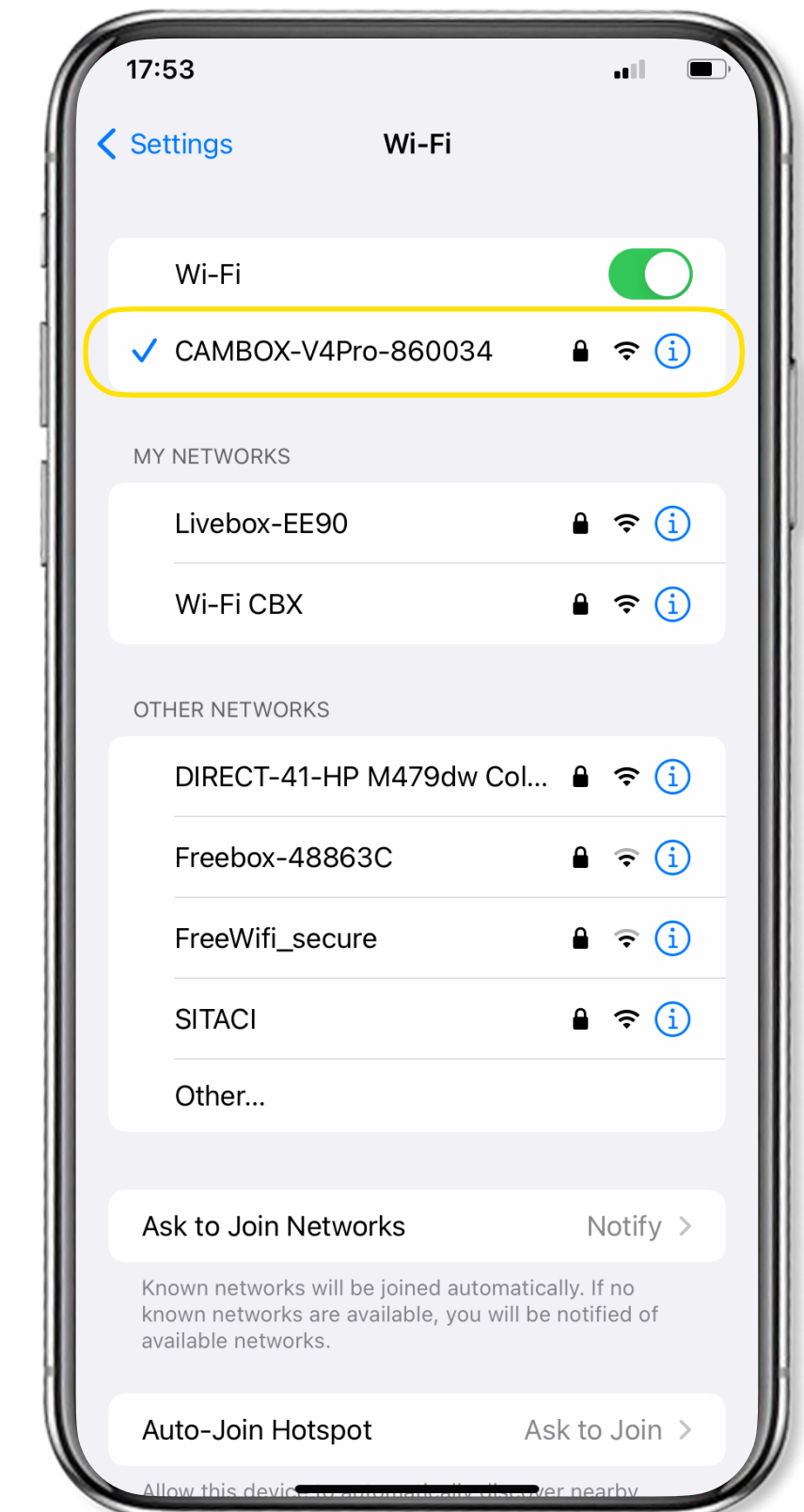
Select the « Cambox-v4xx-xxx » network

3. Enter password



The default password is : 12345678

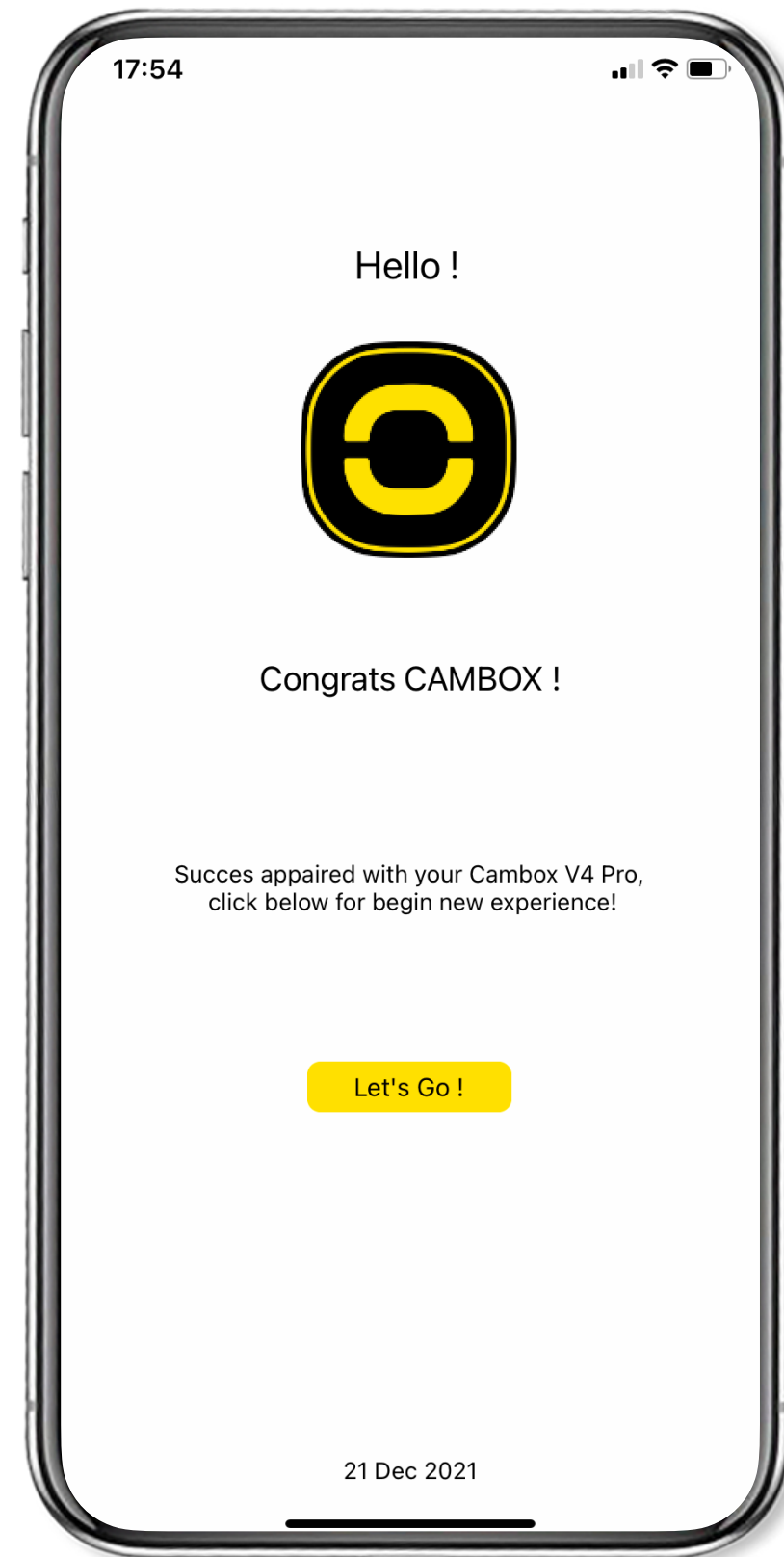
4. Connection successful



Your camera is now paired to your smartphone !

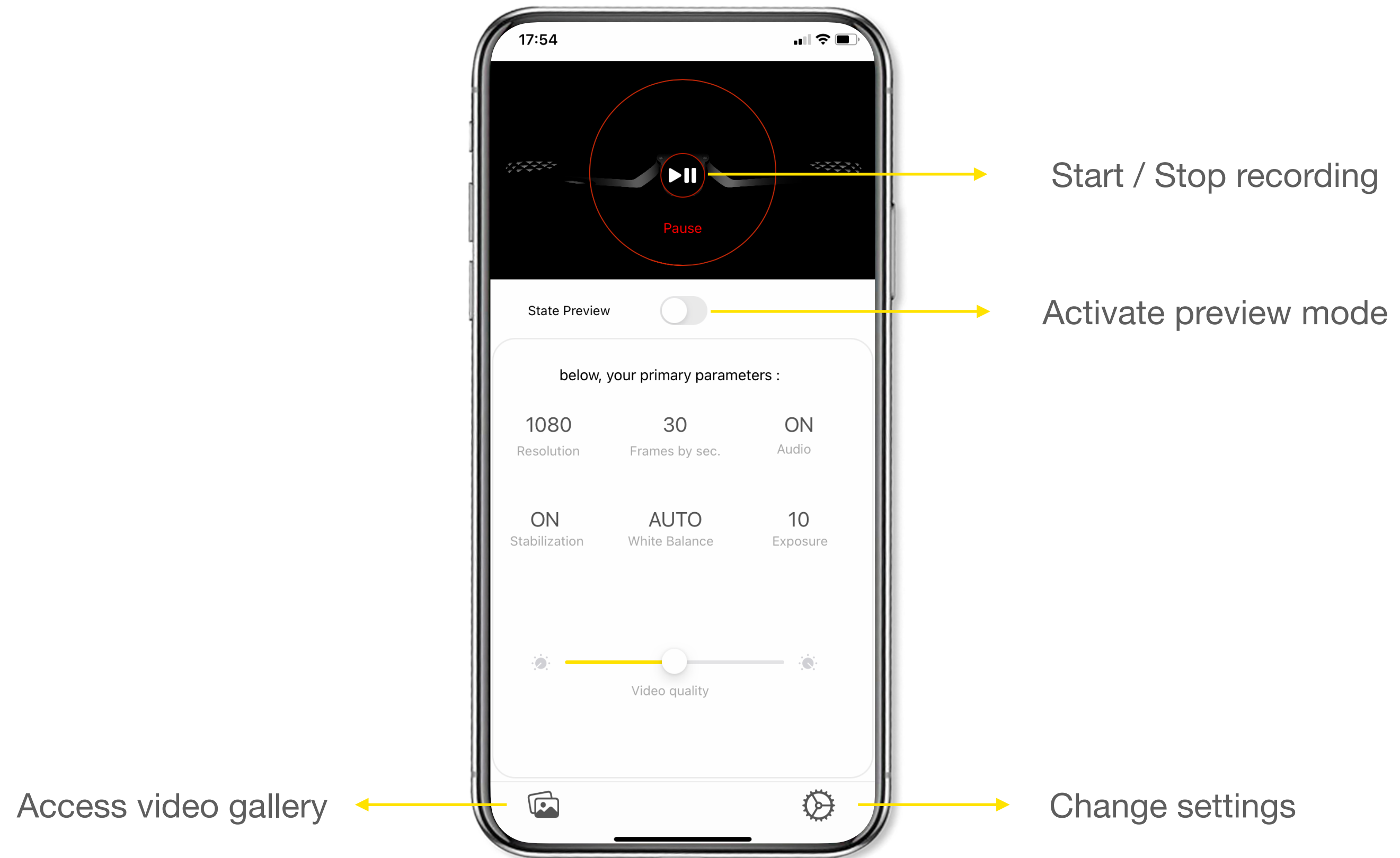
First steps with the Cambox App...

1. Open the app



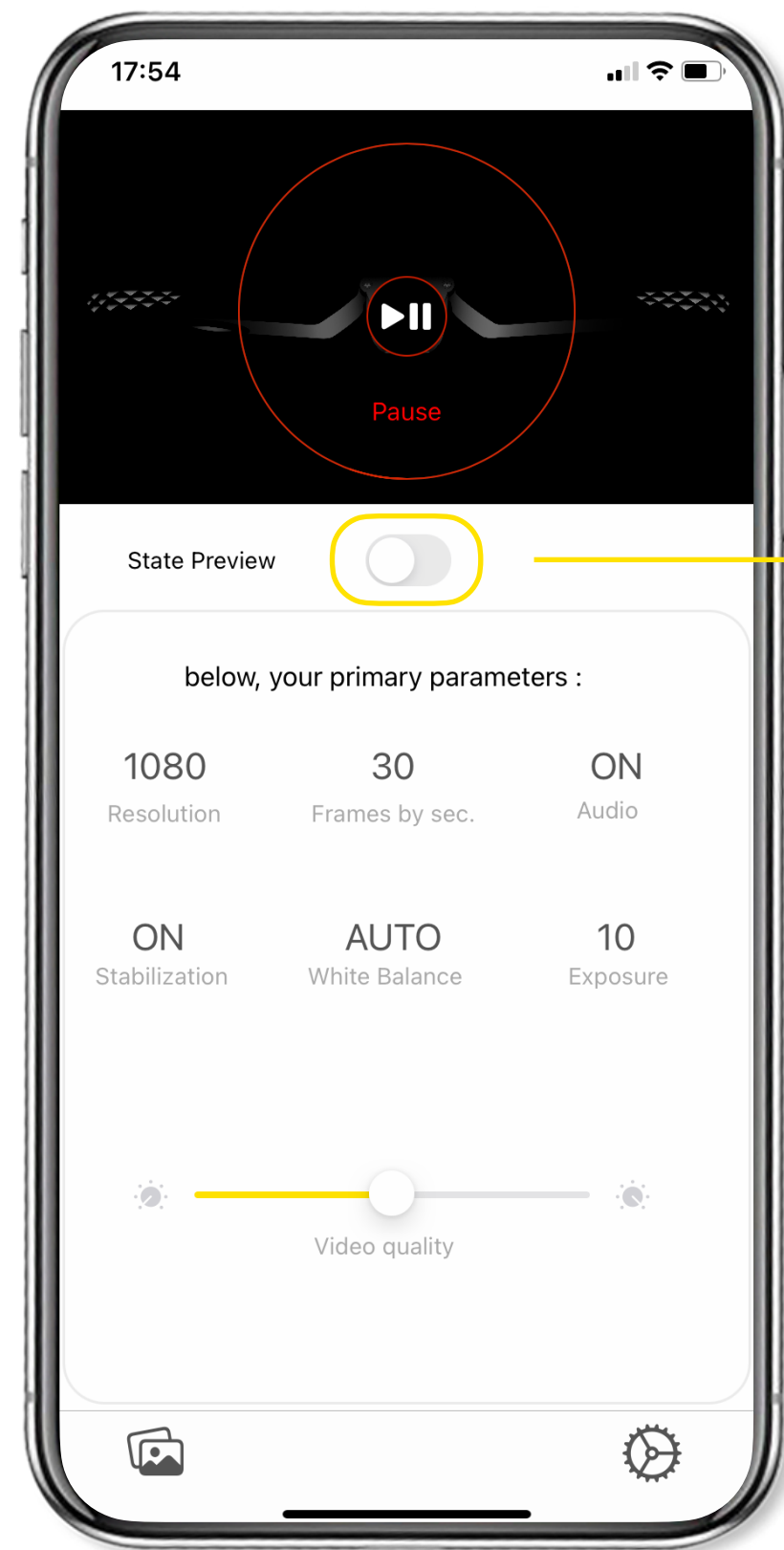
Open the « Cambox App », then select the « Let's go » button to start the experience.

2. App home screen



You are now on the Cambox App home screen.

Preview mode activation

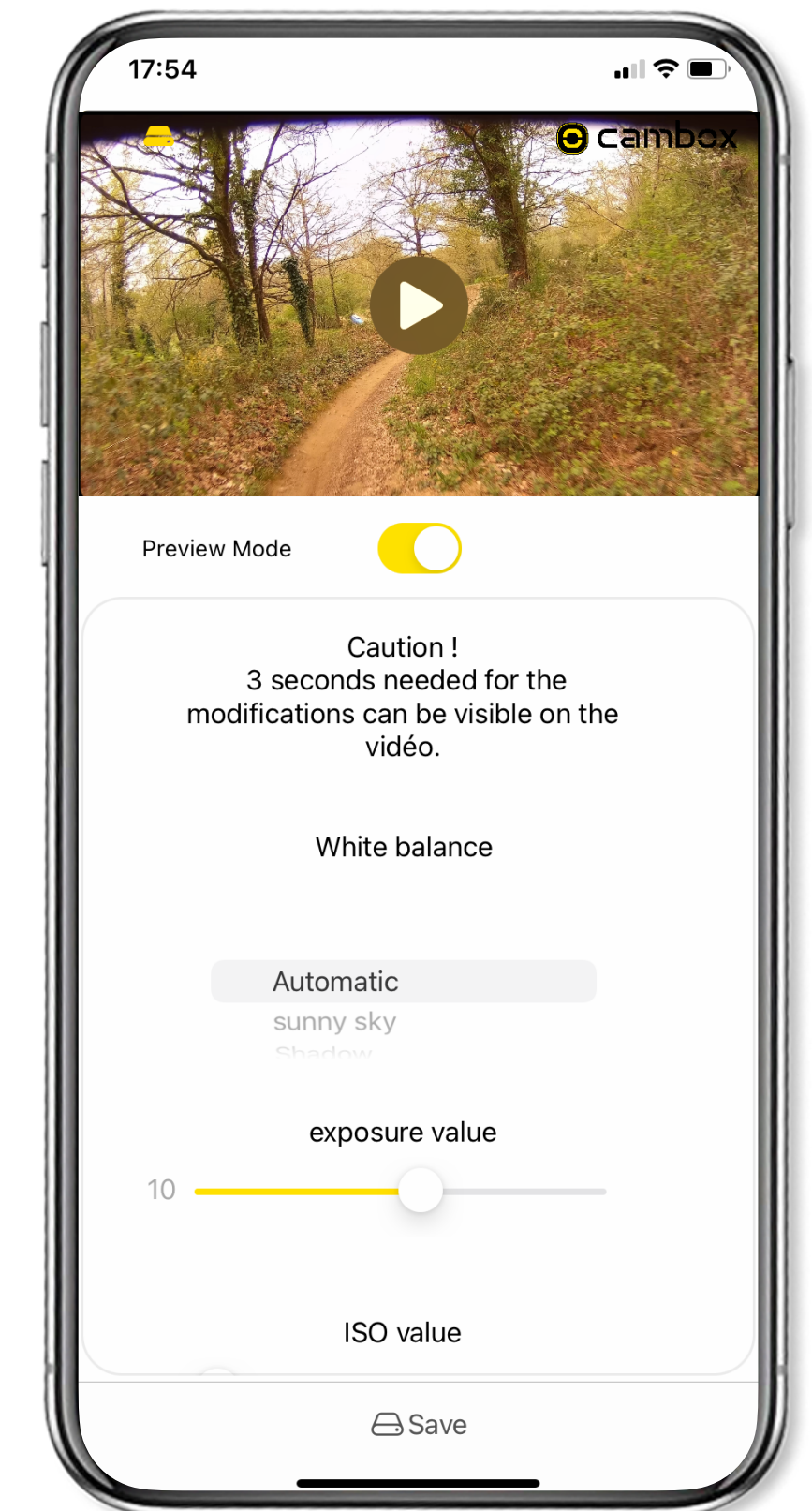


The preview mode allows you to visualize in real time your new videos settings (brightness, saturation, white balance...) and to adjust your viewing angle.

- To enable Preview mode, slide the button to the right
The Cambox® power LED will turn solid blue, and then flashing blue to indicate that video stream is on ...

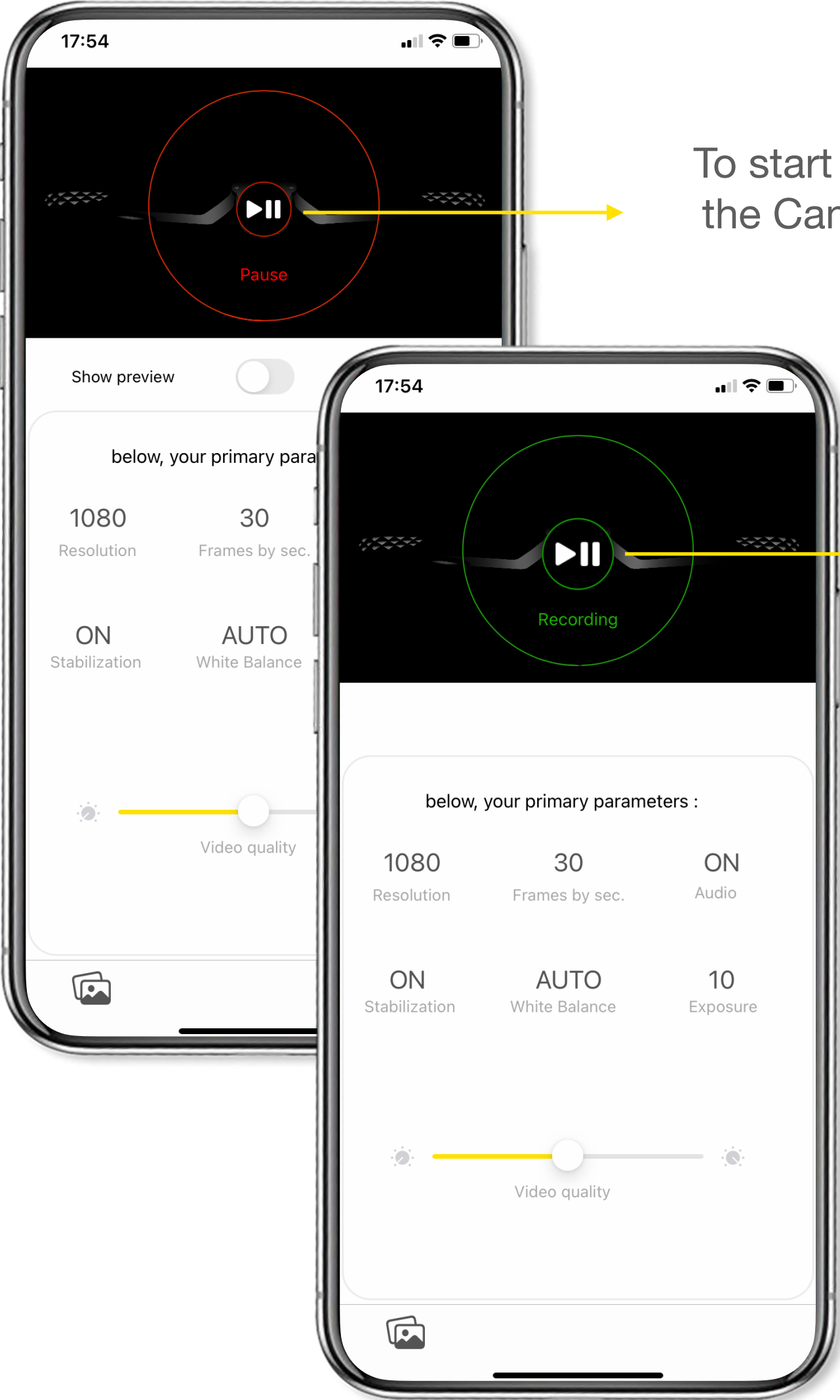
- To disable this mode, slide the same button to the left.

The Cambox® power LED will turn solid red, to indicate that the camera is now ready to start a new video recording.



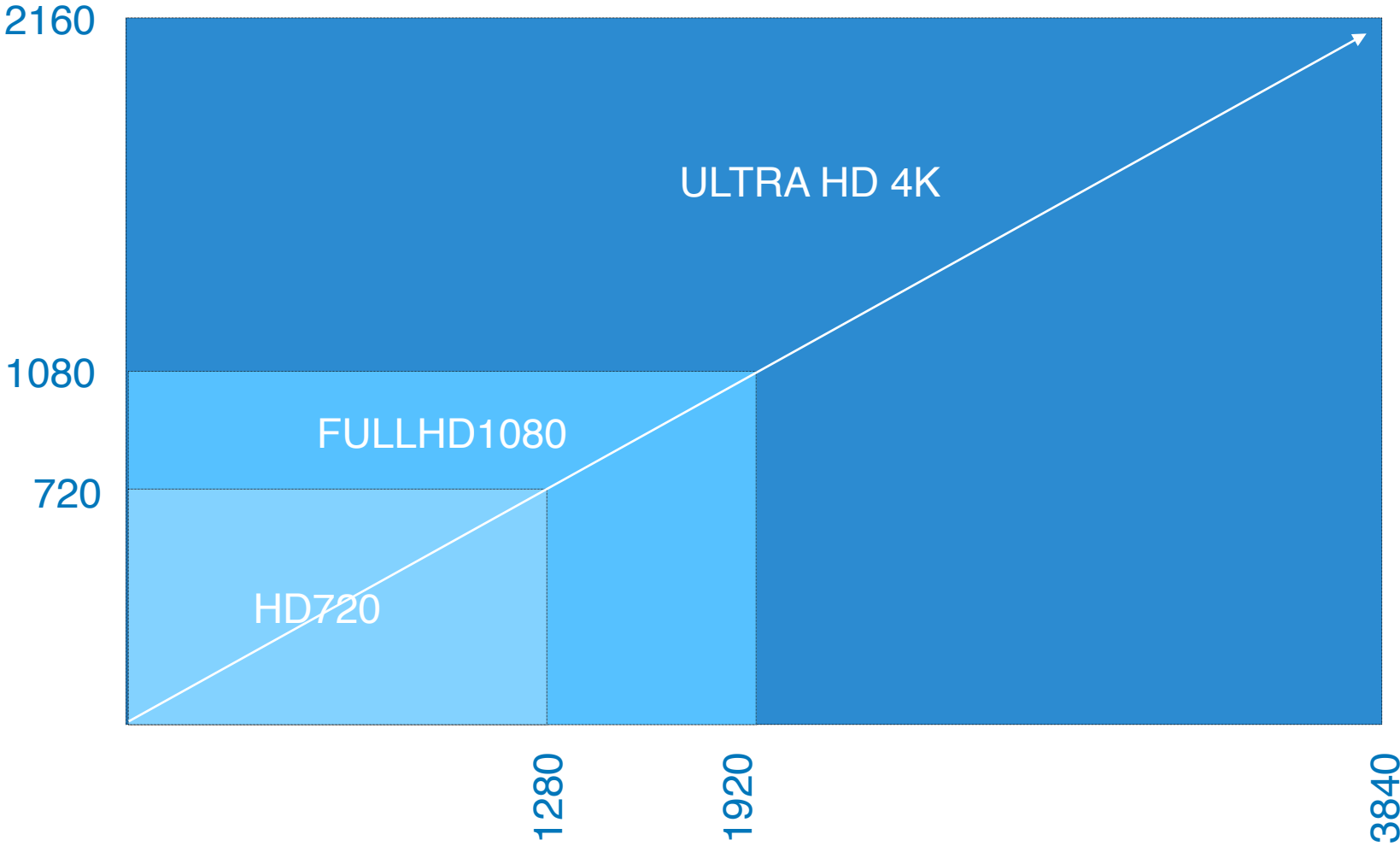
*Once the preview mode is enabled, it is not possible to record a video at the same time.
Some modes, settings and options presented are not available on all our models.*

Launch a video record



To start a video record from the Cambox, press the red button.

Once video recording is activated, the button turns green. To stop the video, press the green button.



4K ULTRAHD*

This mode is the most powerful but also the most battery consuming mode. To fully enjoy this mode, you need to have modern devices (TV, laptop, internet) compatible with this mode.

FullHD 1080

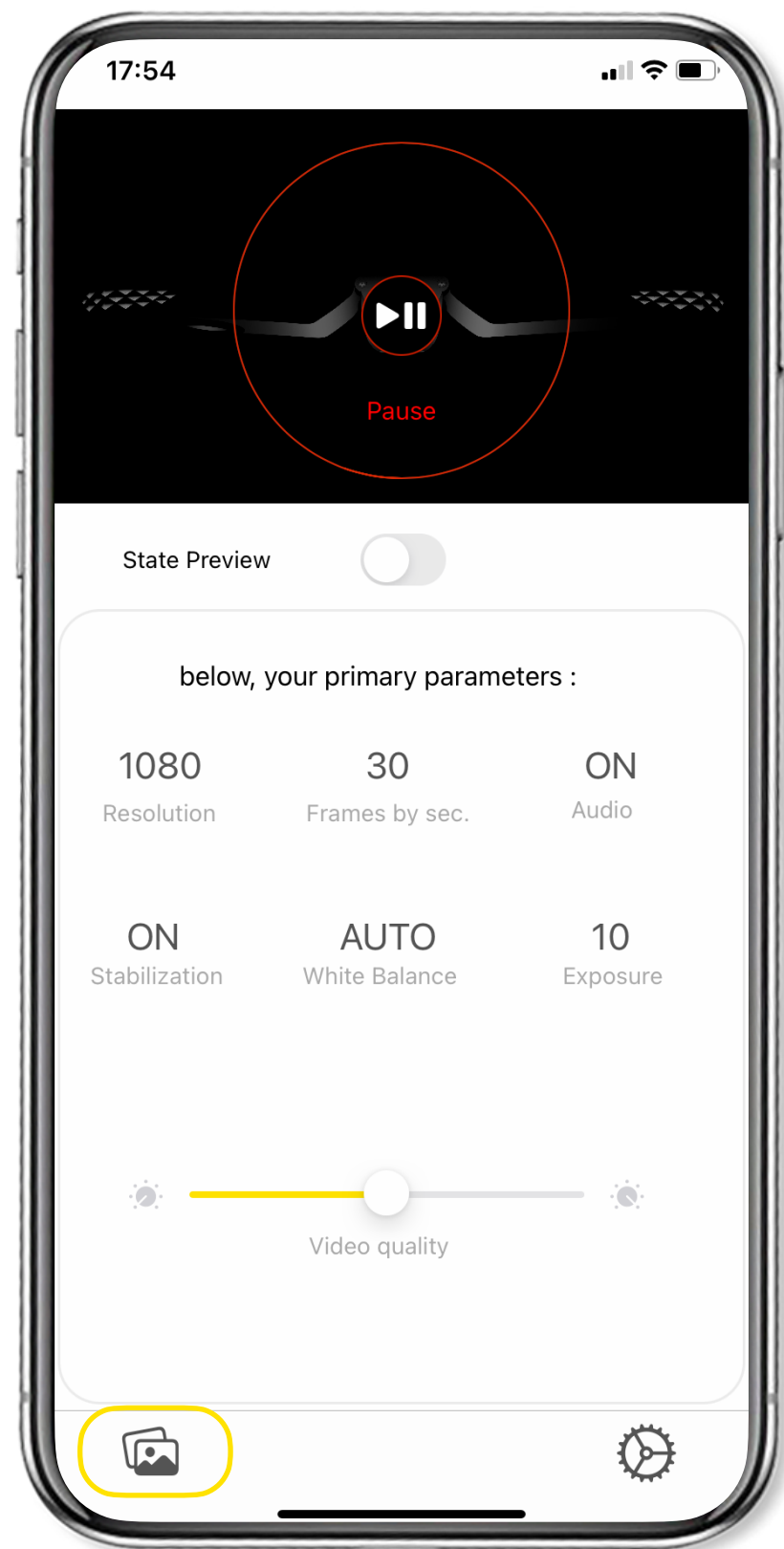
This mode is the most frequently used nowadays. It offers a great compromise between video quality and file size, perfectly adapted to TV, laptop and social media.

HD 720

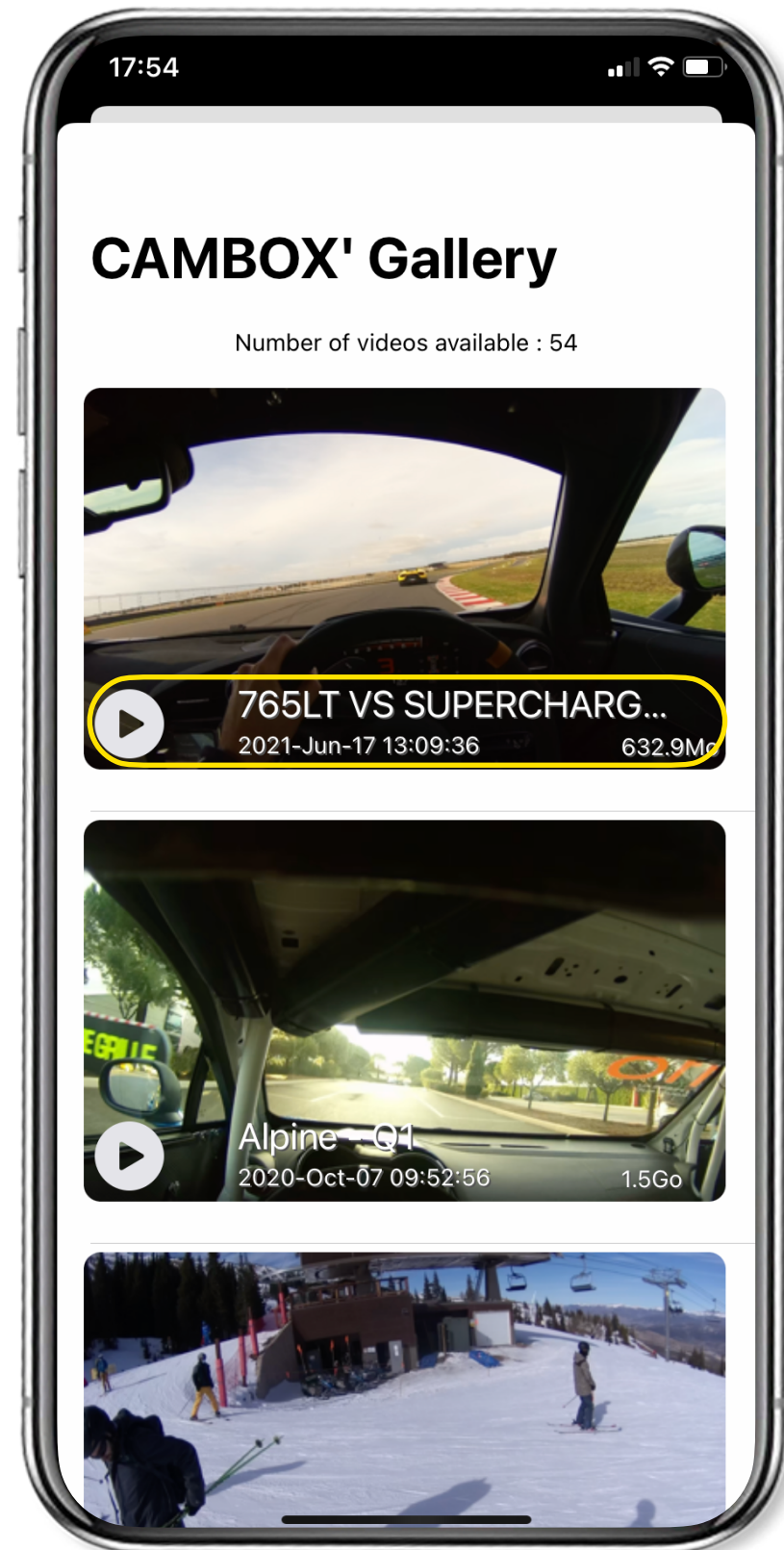
This mode allows you to record videos with sufficient quality and offering an increased video autonomy.

* availability depending on the model

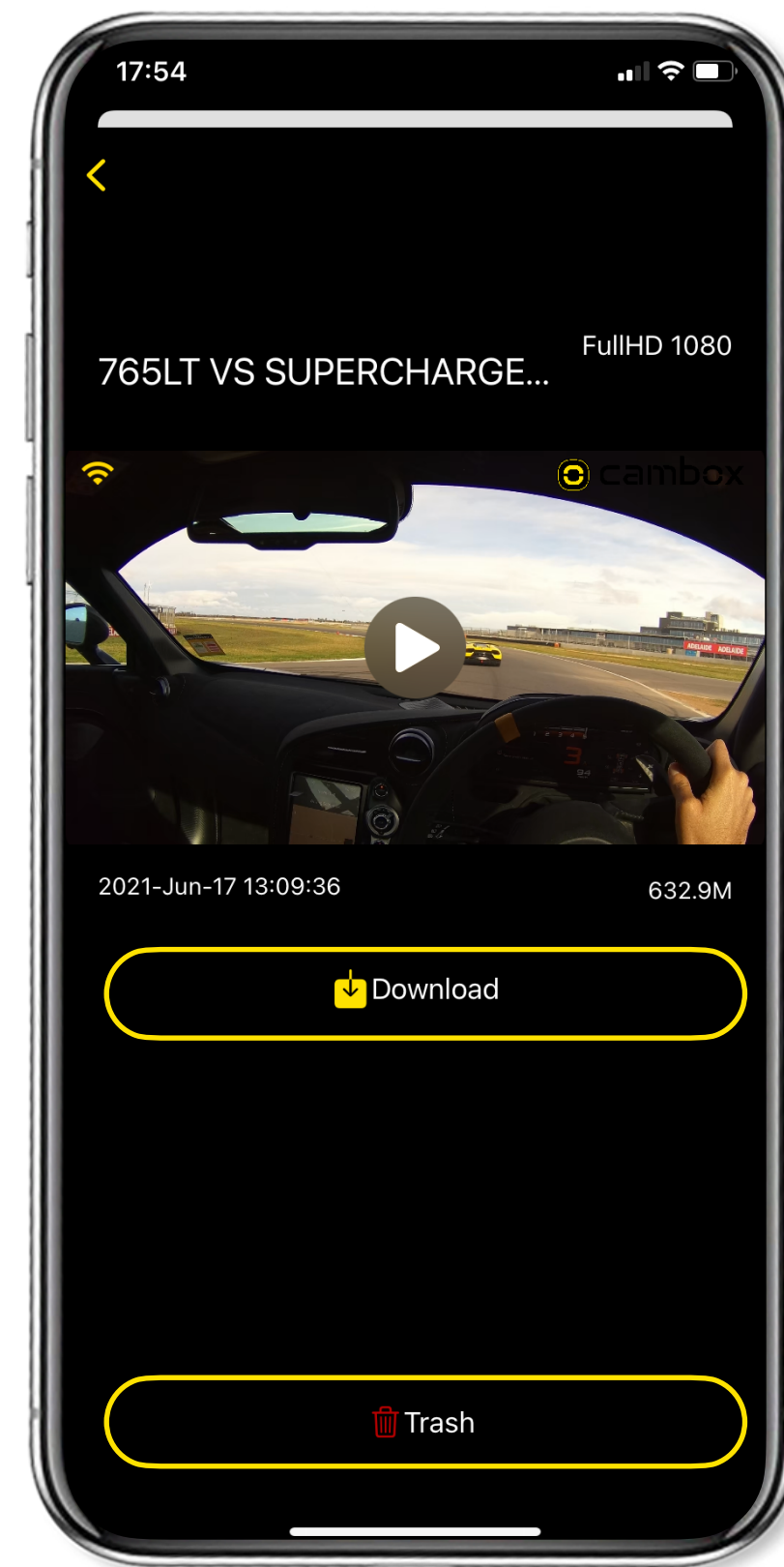
Video Gallery Mode



Select the bottom left corner button to access the video gallery.



You have access to the list of videos stored on your Cambox micro SD card presented as thumbnails, with information such as file name, recording date and time and size.



On this screen, you can playback the video via streaming without download. In this case, the video will not be transferred to your smartphone. To download or delete it, select one of the 2 buttons under the video.



You visualize a progress bar of your video download, once at 100% the save & share button will be displayed.

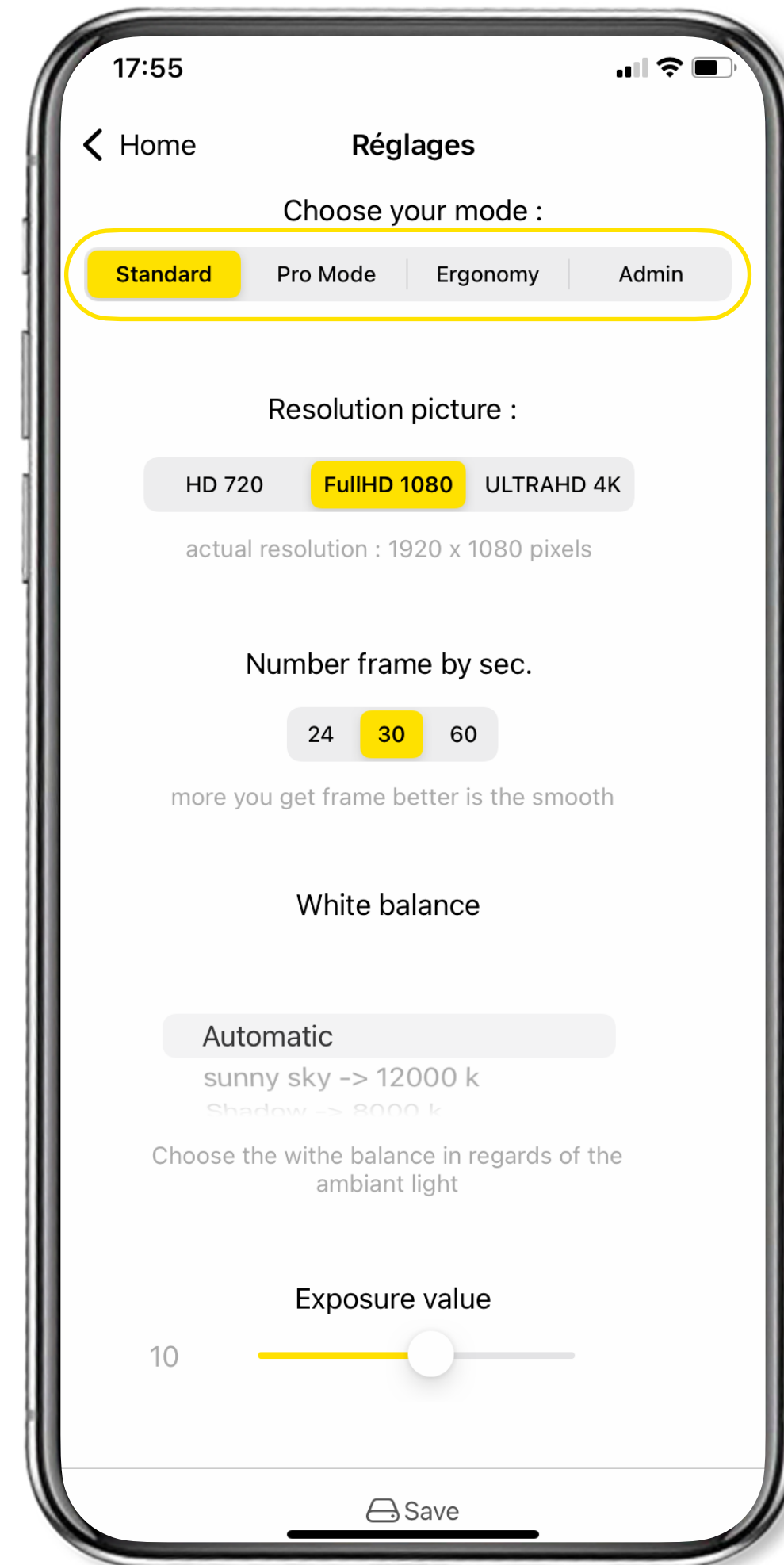
Settings of your Cambox

Standard mode

Quickly change your camera settings.
(Resolution, Frames per second,...)

Pro Mode*

Access the advanced settings of the Cambox V4 Pro
(ISO, Saturation, Contrasts,...)



Ergonomics

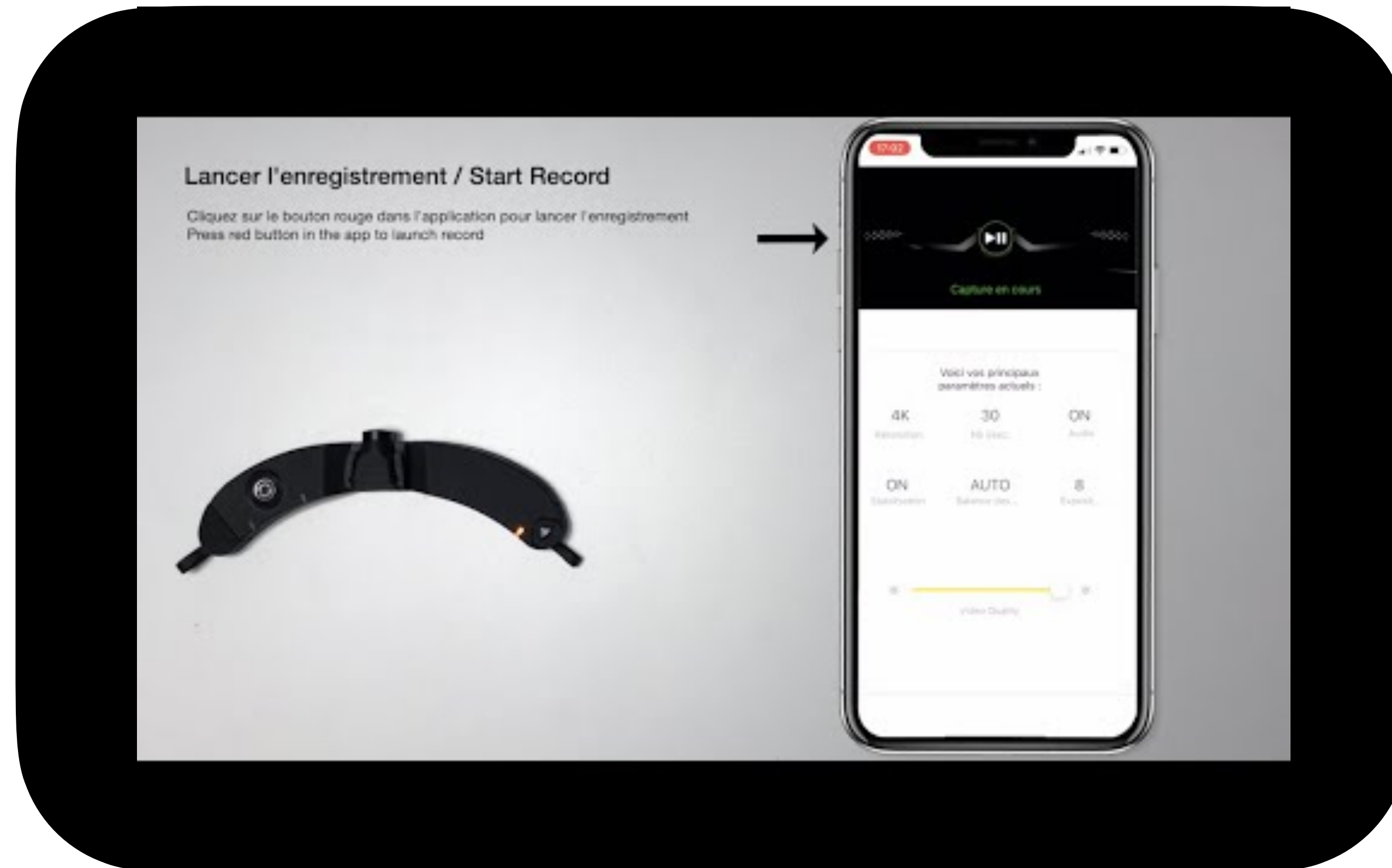
Enable the auto recording mode, manage the camera
LEDs brightness.

Admin

Access the admin interface of your Cambox to know
the versions, change the wifi name or password,
restore the factory settings, etc ...



* The Pro mode features are only available on the Cambox V4
Pro models.



List of standard settings

| | | | |
|-------------------------|---|-------------------------------|--|
| <i>Video resolution</i> | 3 video resolutions are available : > HD720 1280x720 pixels > FullHD 1080 1920x1080 pixels* > 4K 3840 x 2160 pixels | <i>Flip</i> | Flip image horizontally : > Yes > No * |
| <i>White balance</i> | 11 possibilities for white balance > Auto * Mode > Sunny > Shaded > Cloudy > Daylight > Fluorescent light 1 > Fluorescent light 2 > Fluorescent light 3 > Glowing Light > Sunset > Warm colors | <i>Mirror</i> | Reverse image vertically > Yes > No * |
| <i>Exposure</i> | Define exposure value > 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10*, 11, 12, 13, 14, 15, 16, 17, 18 | <i>LED Mode</i> | Reduce the camera LED brightness > Yes > No * |
| <i>Auto Record</i> | Start a video record when turning on the camera: > Yes * > No | <i>Application version</i> | Version number of your Cambox mobile app |
| <i>Stabilization</i> | Enable electronic video stabilization: > Yes * > No | <i>Camera model</i> | Camera model detected by the app |
| <i>Audio</i> | Enable audio capture with microphones > Yes * > No | <i>Camera version</i> | Cambox firmware version |
| | | <i>Reset default settings</i> | This button allows you to reinitialize the camera to its factory settings. |

3 4 5

List of advanced settings (*Pro Mode only*)

ISO
Light sensitivity

Define light sensitivity :

- > *Auto**
- > 100
- > 200
- > 400
- > 800
- > 1600
- > 3200
- > 6400

Saturation
Colors intensity

Define color intensity (0=black & white 18= warm colors) :

- > 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12*, 13, 14, 15, 16, 17, 18

Contrast
Contrast management

Define contrast intensity :

- > 0, 1, 2, 3, 4*, 5, 6, 7, 8, 9, 10

Sharpness

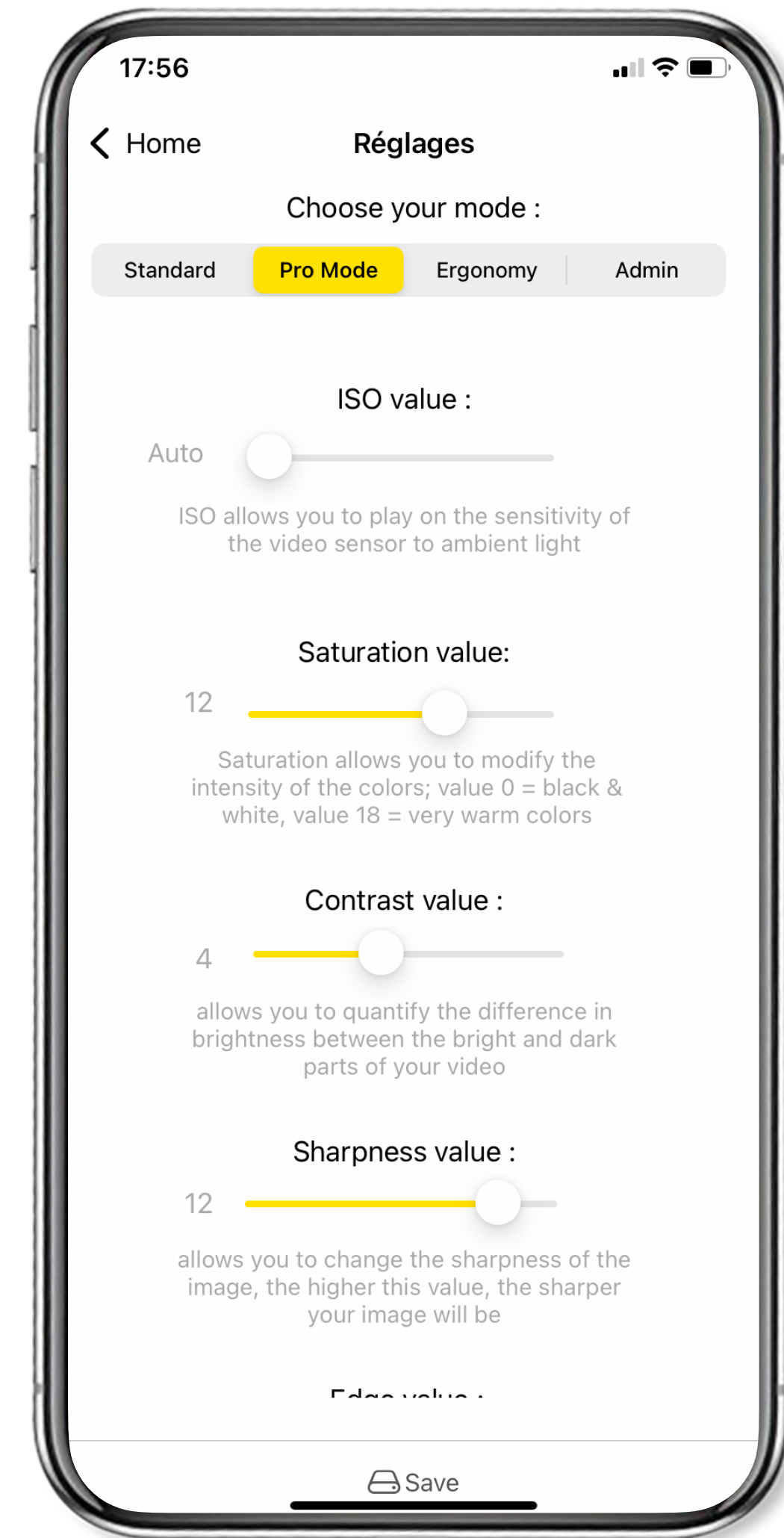
Define image sharpness :

- > 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12*, 13, 14

Edge Strength

Define edge strength :

- > 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12*, 13, 14



* The advanced settings of the Pro Mode are only available with the Cambox V4 Pro models.

Trouble shooting

| SYMPTOMS | CAUSES AND SOLUTIONS | | |
|---|---|---|---|
| Impossible to launch a new record | 1) Turn off and then on your camera 2) Control the LED meanings in the right chart 3) Check the charging level of your camera | The LED (3) is blinking red | The Cambox has reach a low battery level, try to plug an external battery to extend the record duration. |
| My Cambox is not responding to any operations | Perform the RESET operation as indicated on page 28. | The LED (3) is solid red | The Cambox has reach a critical battery level. The recording has stopped along with the wifi connection. |
| Impossible to activate the camera Wifi | In the event of low or critical battery level, the wifi connection is disabled. Check procedure page 7. | | Plug the Cambox to an external power source in order to recharge the camera internal battery. Approximately 2 hours are required to fully charged the battery. |
| All of my Cambox videos are black | Check that the lens cap (1) has been removed. | The LED (4) automatically turns solid red | When the battery reaches a critical level and when a video is being recorded, the camera turns off automatically with a led turning solid red with a short vibration. |
| I can not play my videos on my computer | The Cambox uses a modern and recent H265 video compression codec that might not be installed on your device. You can either download it with the official manufacturer or install the free VLC media player that includes the necessary codec. | The LED (4) is blinking purple | 1) Check if the memory card is inserted 2) Check that there is enough free space on the memory card 3) Check that your card corresponds to our recommendations (32-128 Gb) |
| The file transfer via Wifi is too long | The Cambox delivers high quality video files that can be relatively heavy even if we are using a modern compression algorithm. Prefer a 5 minutes file duration in order to limit the the file size. Use an SD or micro SD card reader in order to read instantly your videos on your device. | The LED (4) turn solid yellow | The Cambox has a thermal safety in the event of excessive external temperature (between -5°C and +55°C) Let the camera cool down before turning it on again using the RESET operation, see detailed process page 11. |
| I observe that the camera is heating | During charging and recording cycles in 4K high definition, the camera can heat due to the numerous requests to the processor and components. A thermal safety can turn on due to high temperature with a yellow LED (4). | The LED (4) is blinking blue | The preview mode is activated. Disable this mode through the app. (See page 14) |
| | | I observe that the camera is heating | If your Cambox is turned on while charging, an increase of the temperature of the components can happen. We advise to switch off the camera while charging it (check page 6). |

Reset the Cambox

▶ Reset the Cambox

1



Step by step reset process :

1. Make sure your Cambox is not responding to any operation
2. Take the metallic pin **1** supplied with your Cambox
3. Turn your Cambox with the Velcro part facing up, identify the reset hole
4. Insert the pin in the reset hole.
5. Push gently until you feel a click in the reset hole.
6. Your Cambox has been reset, you can now turn it back on



*Please push the metal pin gently so as not to damage the camera.
Do not use any sharp objects such as needles, paper clips, toothpicks... or you
might cause irreversible damages not covered by the warranty*

Instructions to respect

Safety & warnings

Use : Use: Respect terms of uses and follow applicable regulations and laws including private life protection laws, that can ban the use of the camera in specific areas. This product should not be used for any illegal purposes. The user is fully responsible for its uses. Be careful when using your Cambox as part of your sports activities. Pay attention to what is going on around you to avoid hurting you or hurting someone.

Make sure not to drill, bolt or generally speaking to transform your helmet, this in order to ensure your safety level. Respect all the applicable laws when using your Cambox, its fasteners and accessories.

Recycling : Please contact the competent local authority for recycling to have more information about this product. Do not dispose with household waste.

Battery : Do not attempt to remove the battery (note : battery recycling must be in accordance with local environment regulations, see “ Recycling” above.)

File security : This product is not a professional storage device. It does not guarantee the integrity and security of saved files.