

LEO R SMART



User Manual English



leo^R smart

Universal smartphone housing
iOS and Android



Accessories List

- Recommended Accessories – Arm Mounting System p. 3
- Additional Lenses and Filters p. 4
- Trays and Handles – Backpacks and Cases p. 5
- Lighting Kits p. 6
- Spare Parts p. 7

Housing View

- External View – Front Side p. 8
- External View – Rear Side p. 9
- External View – Left and Right Side p. 10
- External View – Top and Bottom p. 11
- Internal View p. 12
- Button Panel p. 13

Initial Operations

- Opening the Housing p. 14
- Closing the Housing p. 15
- Turning the Housing On and Off p. 16
- Inserting the Phone p. 17
- Using the Charging Cable p. 18

Smartphone Connection

- Bluetooth Connection p. 19
- Advanced iOS Keyboard Control p. 20
- Advanced iOS Mouse Control 1/2 p. 21
- Advanced iOS Mouse Control 2/2 p. 22
- Easydive Pics App (iOS) 1/3 p. 23
- Easydive Pics App (iOS) 2/3 p. 24
- Easydive Pics App (iOS) 3/3 p. 25
- Disconnecting Bluetooth p. 26

LED Guide

- Internal LED & Side LED 1 p. 27
- Side LED 2 p. 28

Keyboard Commands

- Main Keyboard – iOS Easydive Pics App p. 29
- Switch Keyboard – iOS Easydive Pics App p. 30
- Main Keyboard – iOS Operating System p. 31
- Switch Keyboard – iOS Operating System p. 32
- Main Keyboard – Android Operating System p. 33
- Switch Keyboard – Android Operating System p. 34

Charging and Battery Life

- Charging Management p. 35
- Battery Life and Charging Time p. 36

Vacuum System

- Vacuum Leak Test Procedure p. 37

Final Information

- Best Practices p. 38
- Warnings p. 39
- Warranty and Maintenance p. 40
- Technical Specifications p. 41

Accessories List

Recommended Accessories

Quick-Release Grip



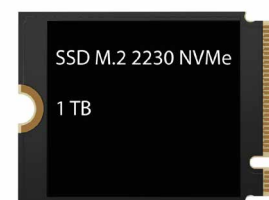
Backlit Keypad



Depth and Temperature Sensor



Vacuum System



SSD 1 Tb

Protective Film



Charging Cable

Arm Mounting System



Fixed M6 Balls



Quick-Release Balls



T Bayonets + 2 Starting Balls

Accessories List

Additional Lenses and Filters

Saga +5 Macro Lens



0.6x Wide-Angle Lens



Plexiglass Dome



M67 Filters (Assorted Colors)



Single Flip Support



M67 Adapter



Double Flip Support



Accessories List

Trays and Handles



Moby

Vertical Position Tray



Carrying Grip with Triple Clamps

Bagpacks and Cases

Backpack with wheels



Neoprene Sleeve Bag



Small Case

Accessories List

Lighting Kits

Kit with 2 Revolution 7000 Lights



Kit with 2 Revolution 15000/21000 Lights



Kit with 1 Revolution 7000 Light

Kit with 1 Revolution 15000/21000 Light

Kit with 2 Lights (1300 Lumens)



Kit with 1 Light (1300 Lumens)



Strobe Control System for Revolution

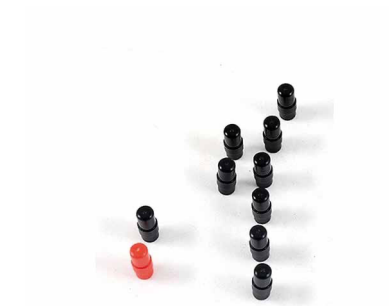
Spare Parts

Replacement O-rings



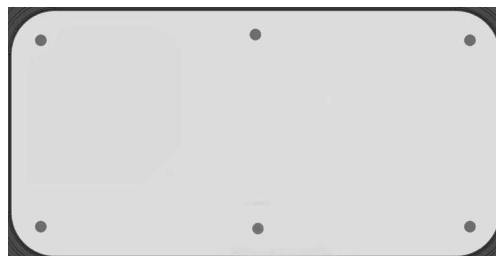
Silicone Grease

Replacement Zinc

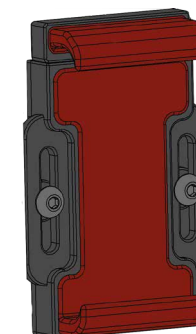


Replacement Buttons

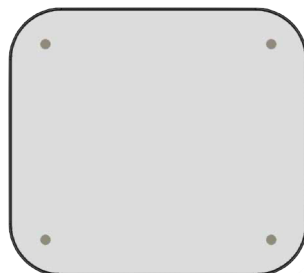
Replacement Rear Screen



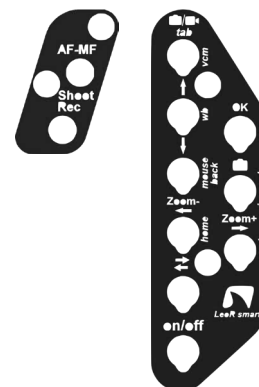
Replacement Universal Clamp



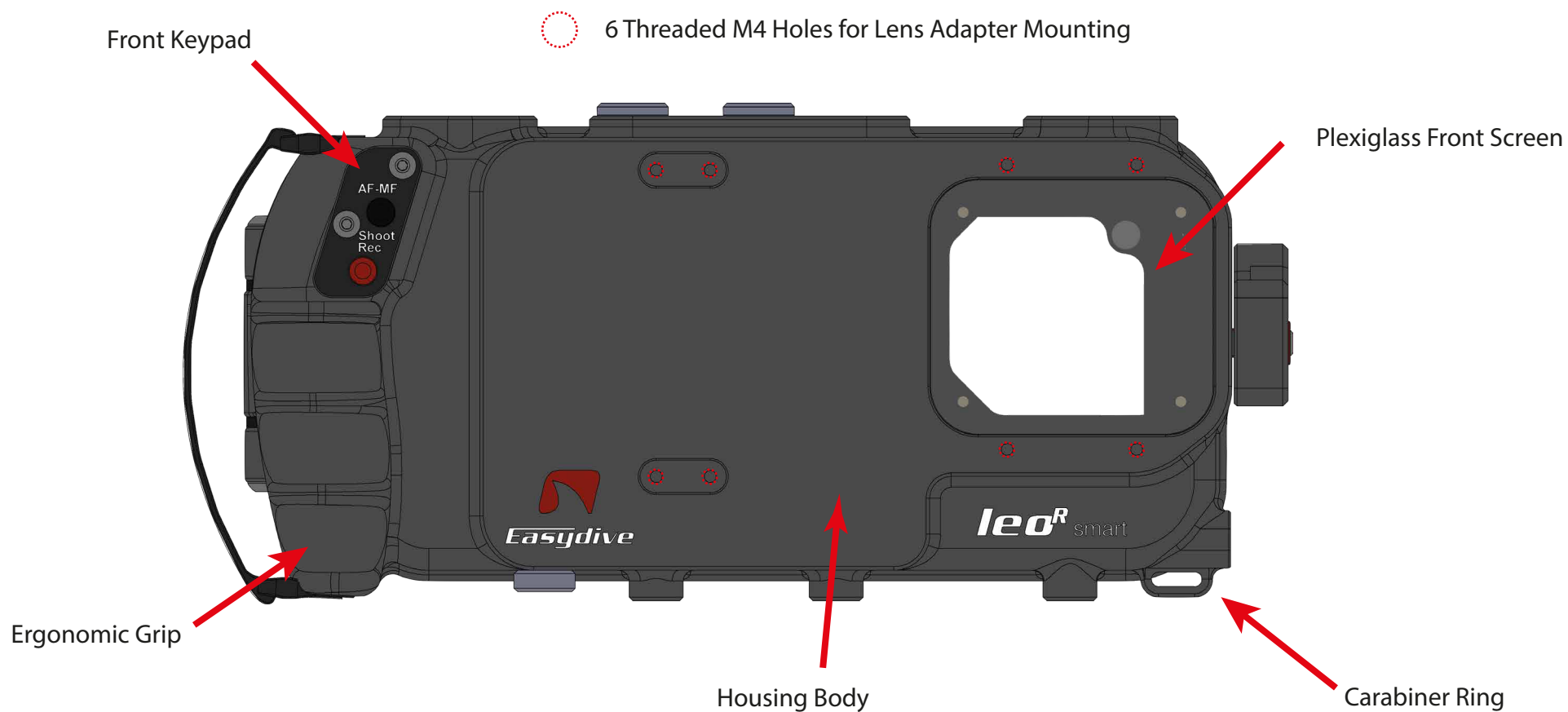
Replacement Front Screen



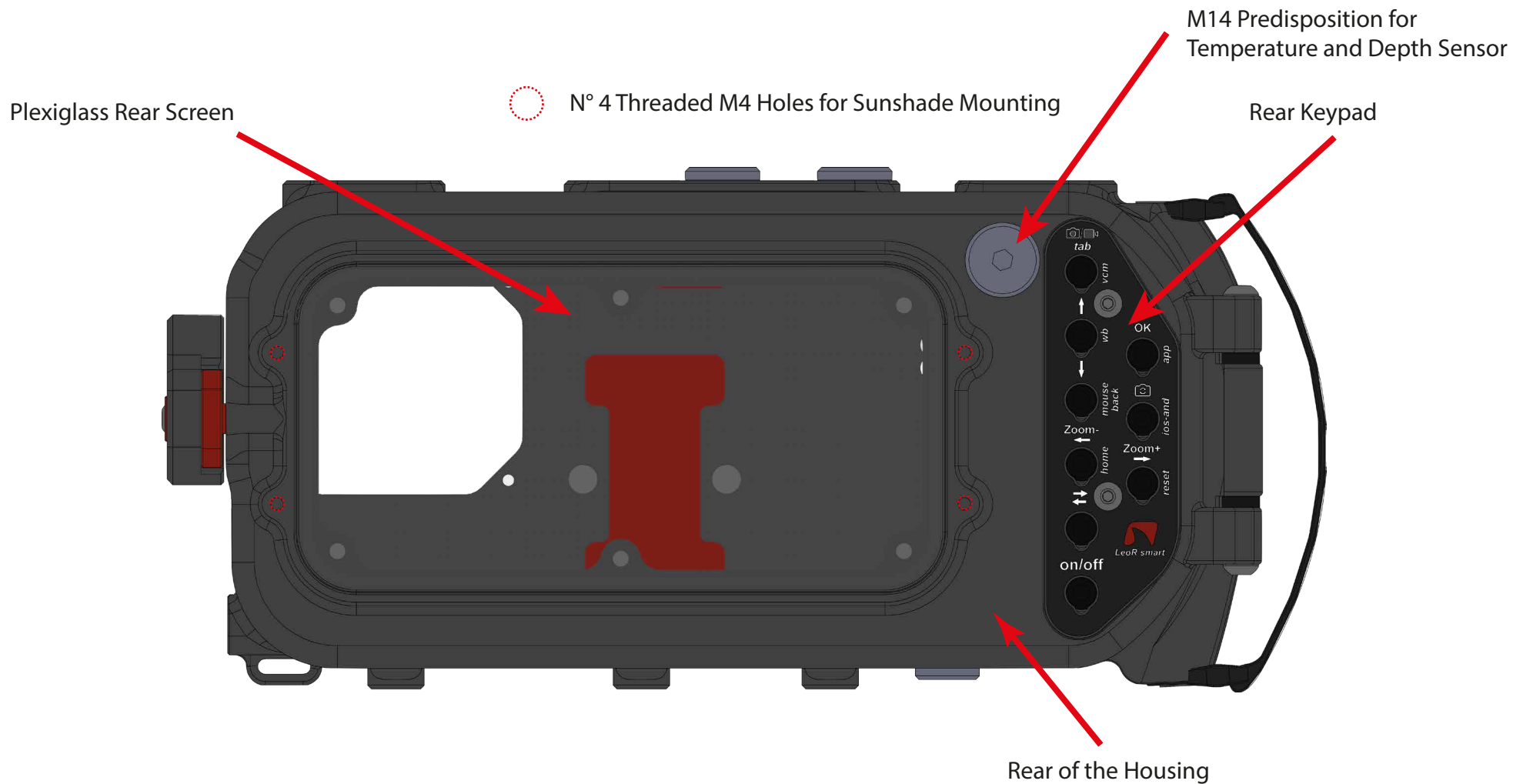
Replacement Keypad Plates



External Front View



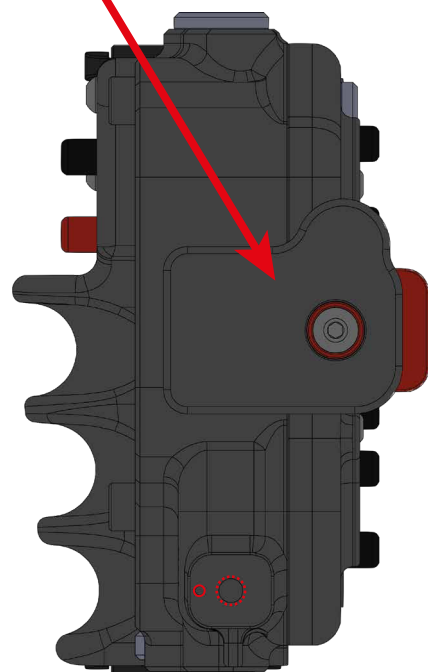
External Rear View



External Left and Right Side View

Rotating Opening
and Closing knob

Left Side



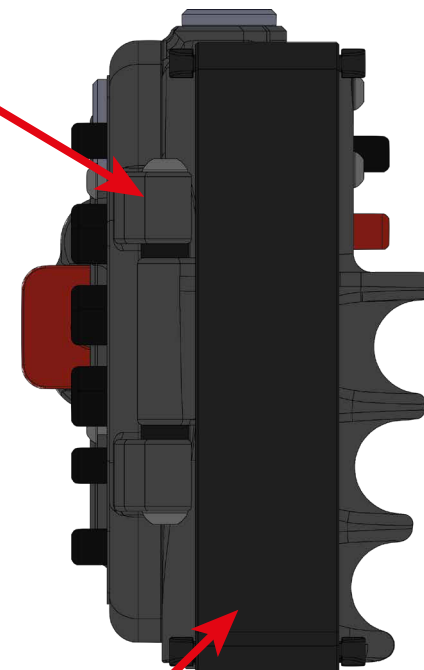
Safety Lock



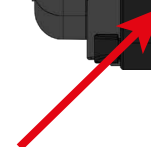
○ 1 Threaded M6 Hole for Quick-Release Grip Mounting
with Anti-Rotation Pin Hole

Back Closure Hinge

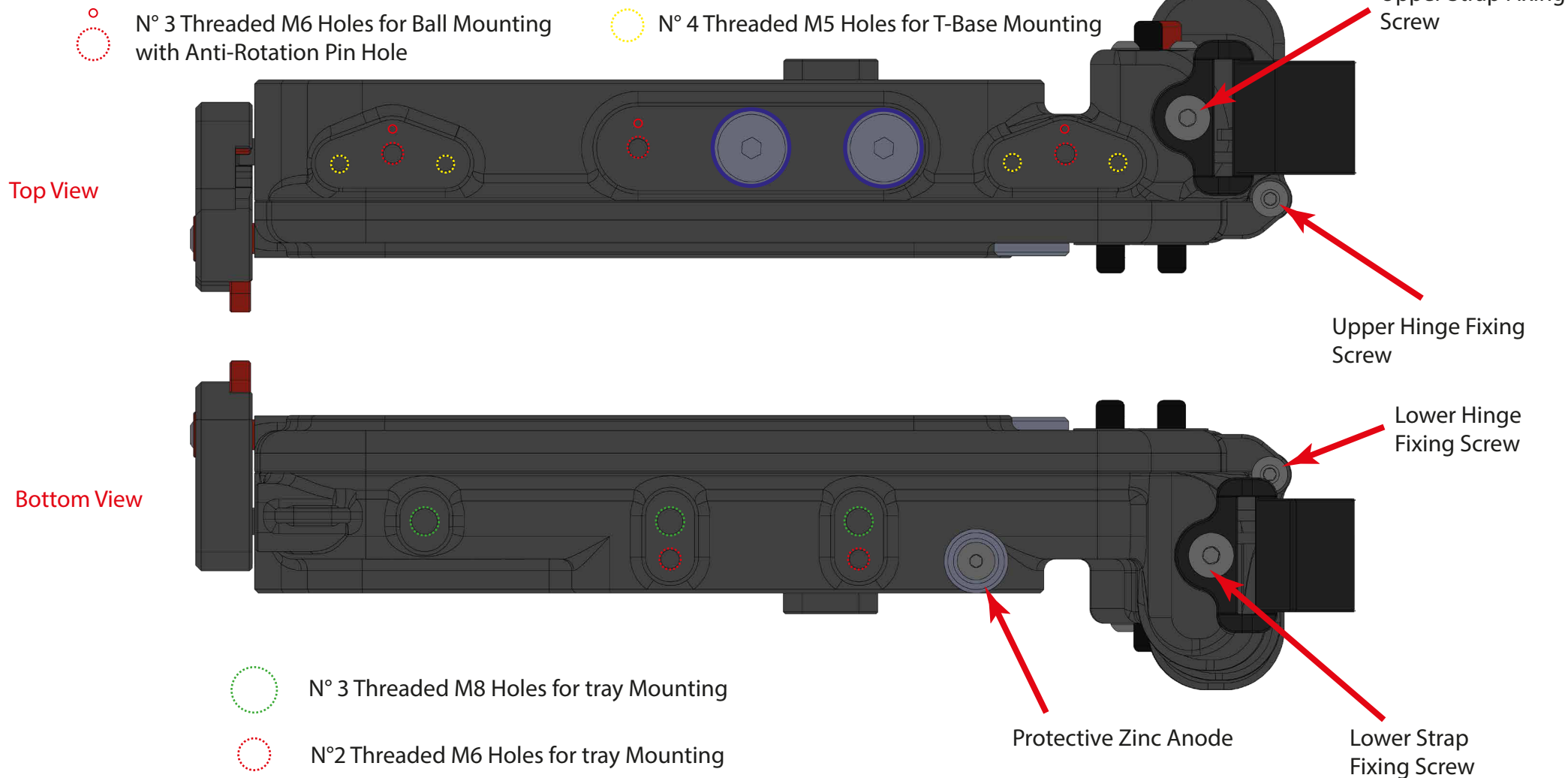
Right Side



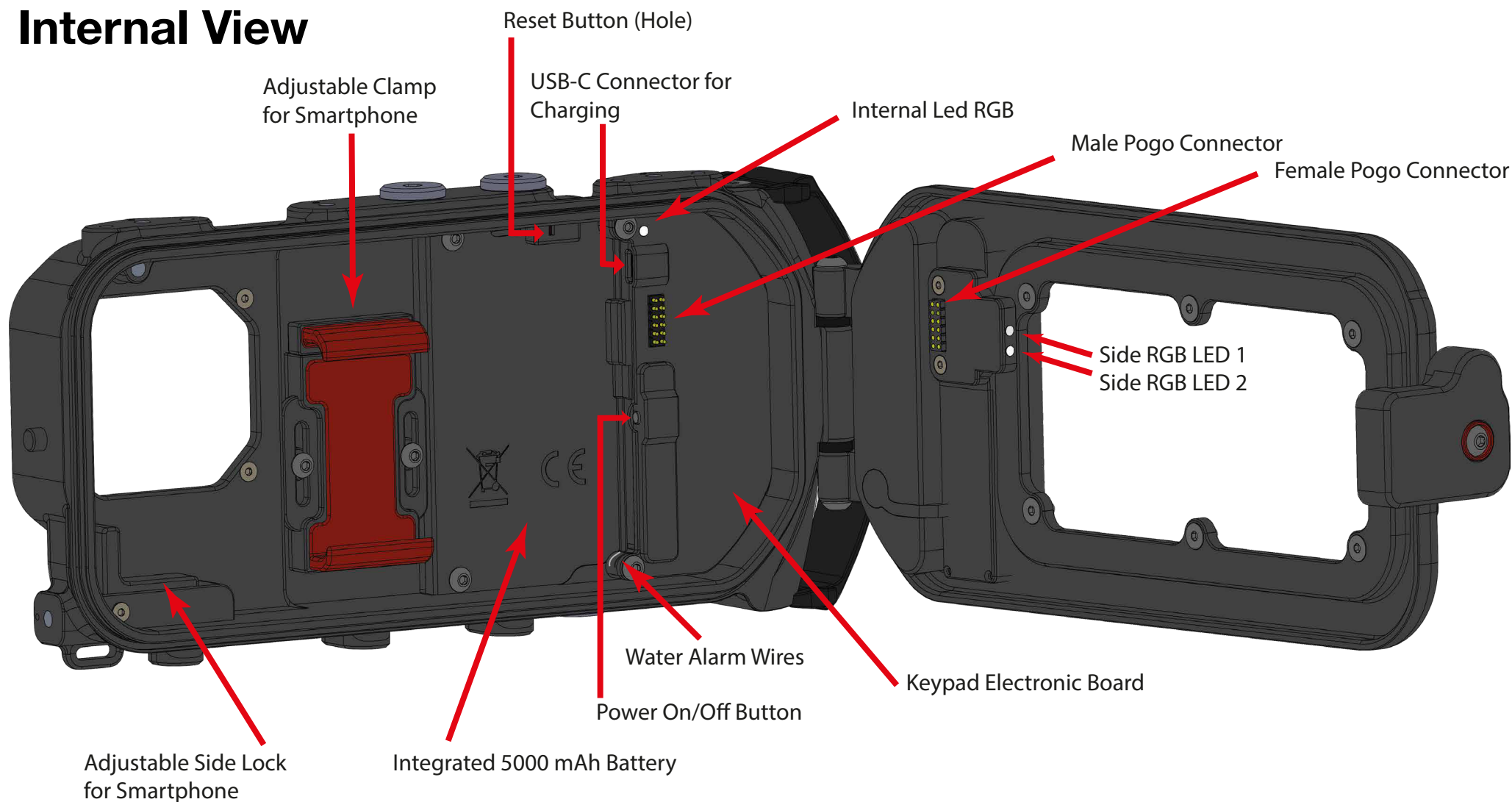
Adjustable Strap



External Top and Bottom View



Internal View



LeoR Smart Keypad

	App iOS Easydive Pics		iOS Operating System		Android Operating System	
	Main	Switch	Main	Switch	Main	Switch
1	AF-MF	--	Click Mouse	Volume +	Volume +	Volume +
2	Shoot/Rec	--	Volume -	Volume -	Volume -	Volume -
3	Photo/Video	Vacuum	Tab	Vacuum	Tab	Vacuum
4	Up Arrow	Wb	Up Arrow	--	Up Arrow	--
5	OK	Connect. APP	OK	--	OK	--
6	Down Arrow	--	Down Arrow	Mouse/Keyboard	Down Arrow	Back
7	Camera Switch	--	--	iOS/And	--	iOS/And
8	Zoom -	--	Left Arrow	Home	Left Arrow	Home
9	Zoom +	Reset	Right Arrow	Reset	Right Arrow	Reset
10	Switch	Switch	Switch	Switch	Switch	Switch
11	on/off	on/off	on/off	on/off	on/off	on/off

Front Keypad



Rear Keypad



Housing Opening

To open the housing, use the rotating knob located on the left side. Follow these steps:

1. Press the red button to unlock the safety lock.
2. While holding the button down, rotate the knob downward until it disengages from the housing.
3. Continue rotating to help opening the back of the housing. (After a dive, pressure changes may make the back harder to open. Just use the knob to make the process easier).
4. Open the back of the housing.



Housing Closing

To close the housing, use the rotating knob located on the left side. Follow these steps:

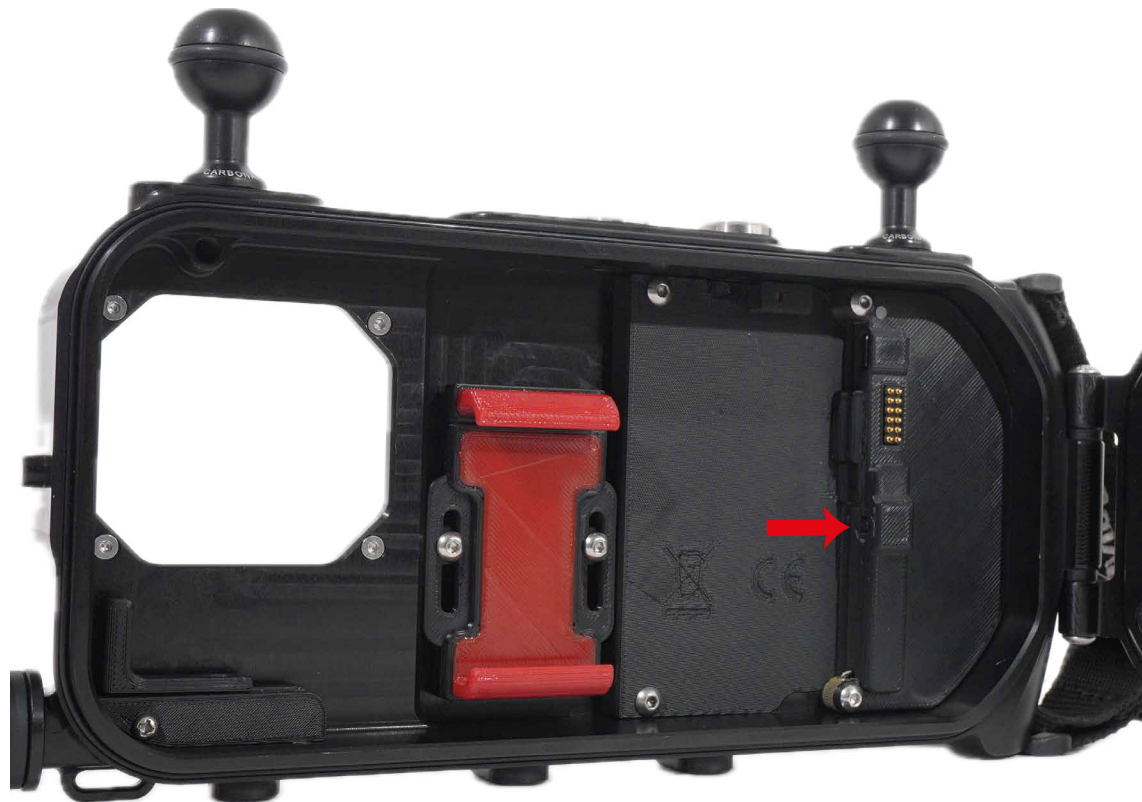
1. Bring the back close to the housing body.
2. Position the knob at an angle, with the red button facing upwards, on the back side of the housing
3. Press the red button to unlock the safety lock.
4. While holding the button down, rotate the knob upward until it reaches a horizontal position.
5. Ensure the red button returns to its original position, confirming that the knob is locked.



Housing Power On/Off

To turn on the housing, press and hold the power button for 2 seconds. The internal LED will light up red, then green and finally blue.

To turn off the housing, press the power button once. The internal LED will turn off.



Inserting the Phone

The LeoR Smart housing features an adjustable universal clamp, allowing you to insert any type of smartphone. The first time you use it, we recommend following these instructions to find the right position for the phone's screen and cameras.

1. Using an Allen key, slightly loosen the screws that hold the clamp.
2. Move the clamp upward.
3. Insert the phone from the bottom upwards.
4. Push the clamp down until the phone touches the adjustable side lock.
5. Adjust the side lock position to ensure it also touches the phone laterally.
6. Check that the phone's screen is clearly visible through the rear plexiglass screen of the housing and verify that all cameras are visible through the front plexiglass window. If necessary, adjust the clamp height or side lock position.



1



2



3



6



5



4

Using the Charging Cable

The optional charging cable can be used to charge the phone during a dive or to save data to the optional SSD memory.

Follow these recommendations:

1. Connect the first cable to the phone.
2. Then connect the other end of the cable to the housing. If the housing is turned on, the phone will start charging.
3. Insert the phone into the universal clamp.
4. Check the position of the phone and the cable, ensuring it does not obstruct the housing closure.



1



2



3

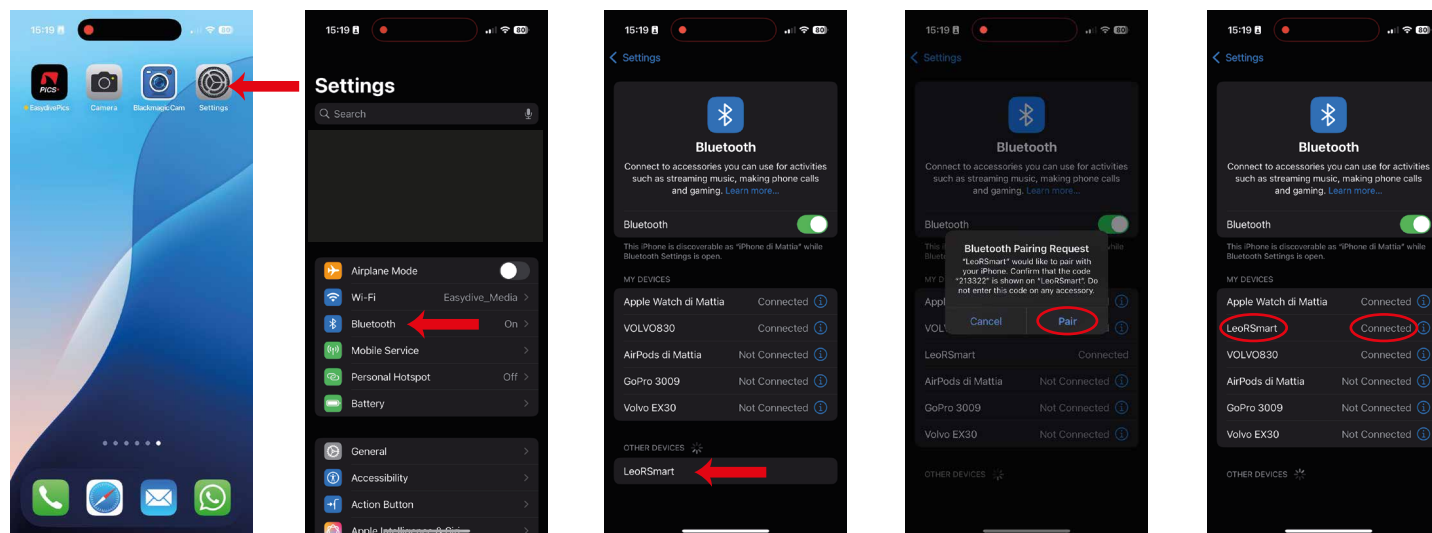


4

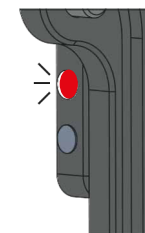
Bluetooth Connection

The LeoR Smart housing interfaces with the smartphone via a Bluetooth connection. First, connect to the housing:

- Turn on the housing; the internal LED will flash red.
- On your phone, go to "Settings".
- Select "Connections" or go directly to the Bluetooth menu.
- Enable Bluetooth.
- Search for "LeoR Smart" among the available devices and tap it to connect.
- If the connection is successful, Your phone will display "Connected" next to LeoR Smart. The housing LED will start flashing white if the keyboard is iOS or green if it is Android.
- If the system asks for permission to connect, tap "Connect".
- If the smartphone type does not match the housing keyboard type (Android – ios), close the housing completely until LED 1 on the side turns on. Press the "Switch" button on the housing (LED 2 will turn blue) then hold the "iOS-AND" button until LED 1 changes to the correct color for your smartphone (Green for Android, White for iOS).



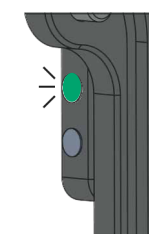
Housing Not Connected



Housing Connected Housing Connected



iOS

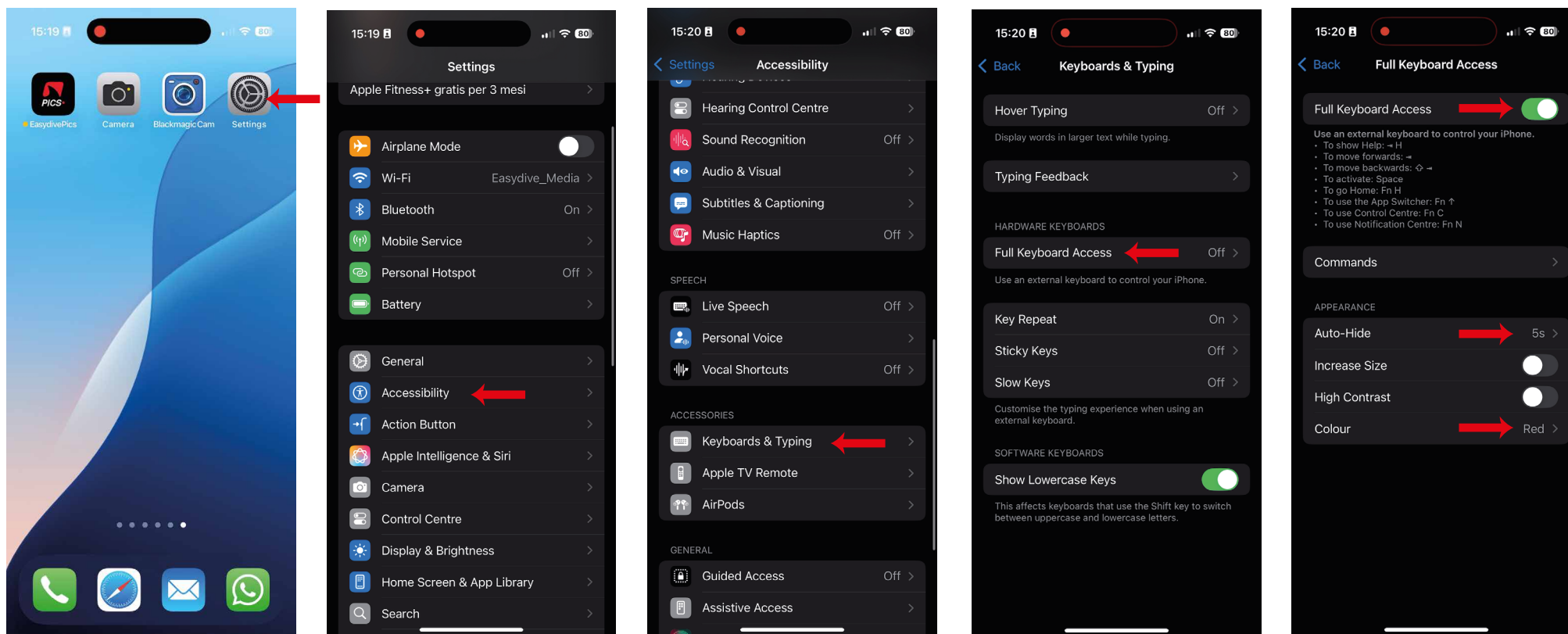


Android

Advanced iOS Control Function - Keyboard

The LeoR Smart housing can connect to the keyboard and mouse control system of the iOS "Accessibility" system. This allows interaction with any app on the phone during a dive using the housing buttons.

To enable advanced keyboard control, follow these steps after connecting to the housing (make sure the LED is flashing white):



1. Open "Settings".

2. Go to "Accessibility".

3. Select "Keyboards & Typing".

4. Enter "Full Keyboard Access". 5. Enable access, select Auto-hide 5s and set the color to Red.

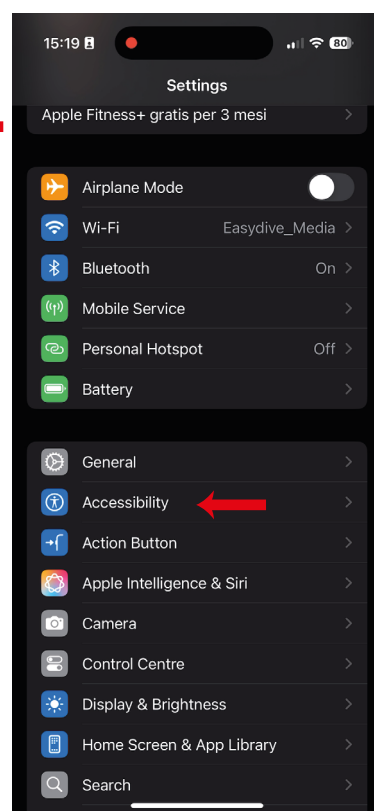
Advanced iOS Control Function - Mouse

The LeoR Smart housing can connect to the keyboard and mouse control system of the iOS “Accessibility” system. This allows interaction with any app on the phone during a dive using the housing buttons.

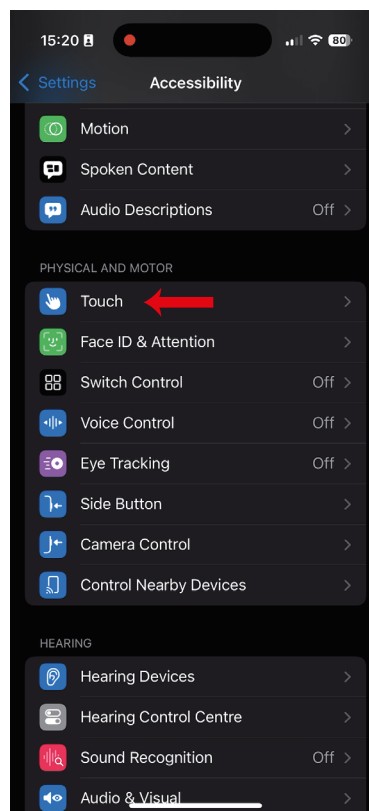
To enable advanced mouse control, follow these steps after connecting to the housing (make sure the LED is flashing white):



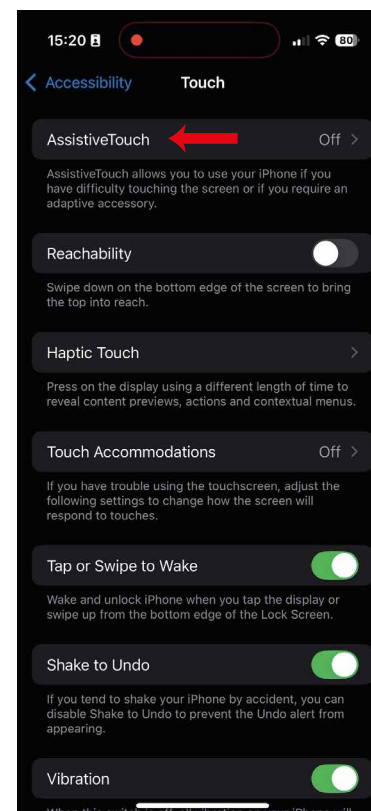
1. Open "Settings".



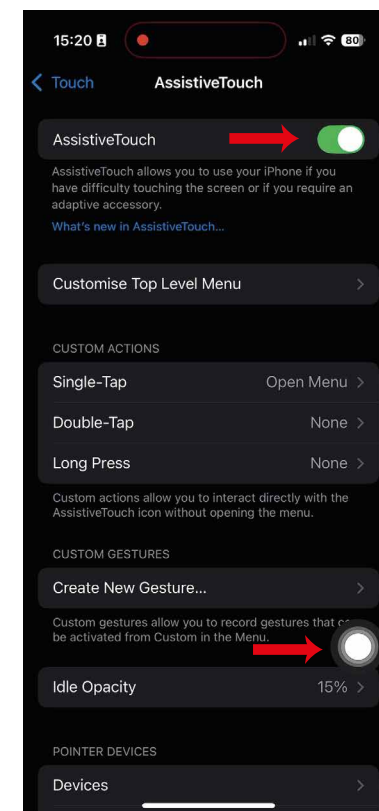
2. Go to "Accessibility".



3. Select "Touch".



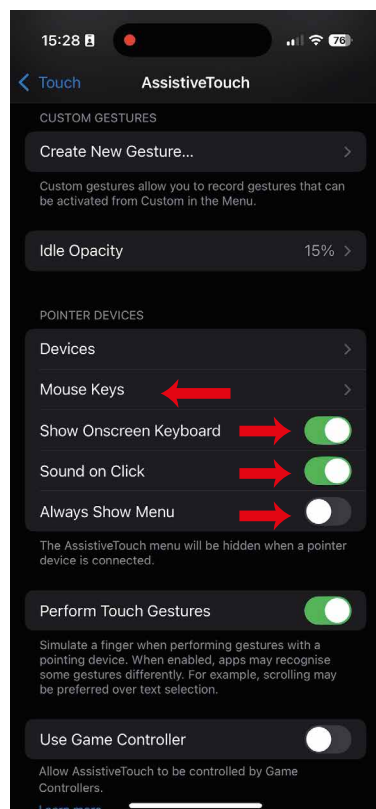
4. Enter "AssistiveTouch".



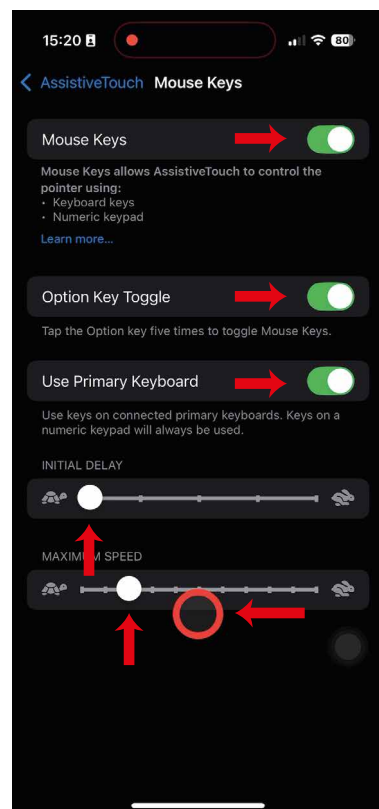
5. Enable "AssistiveTouch".
A white circle will appear.

Advanced iOS Control Function - Mouse

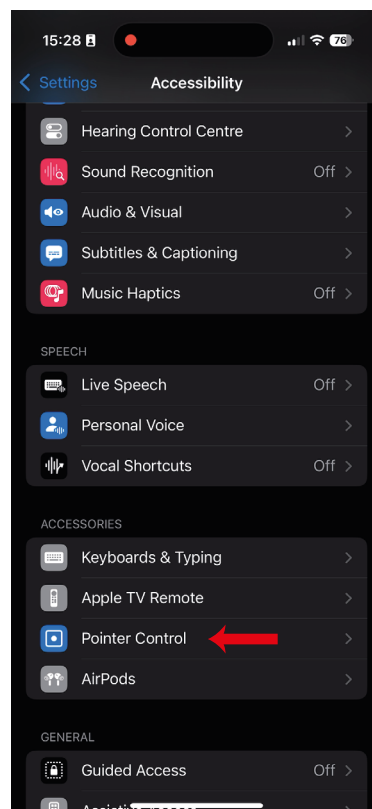
After enabling AssistiveTouch, stay on the same screen and scroll down to "Pointer Devices". Make sure the following options are set:



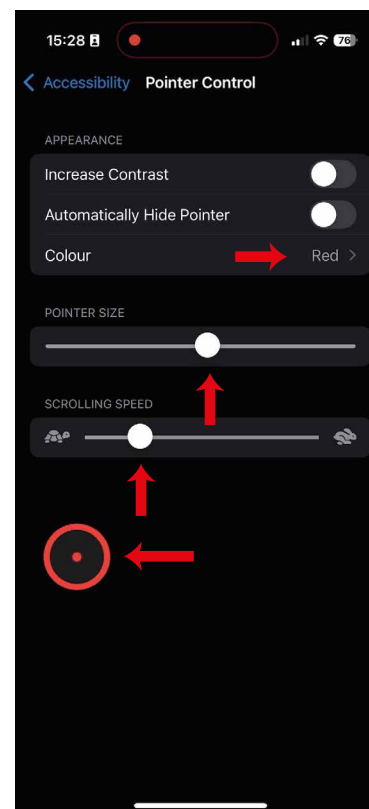
6. Verify that the options match the example, then enter "Mouse Keys".



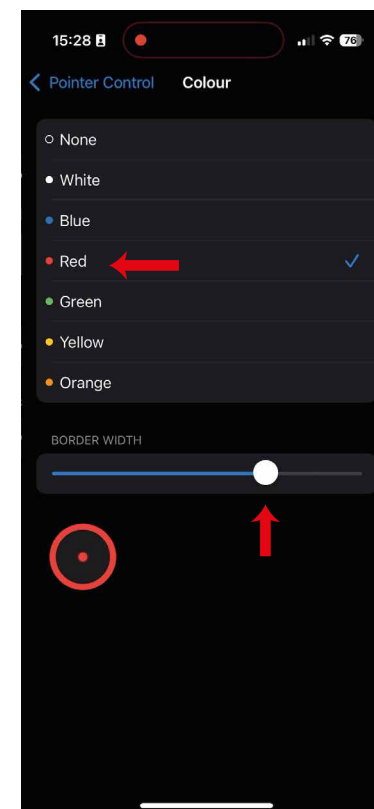
7. Configure the settings as shown on the screen. A mouse pointer will appear.



8. Go back to Accessibility and enter "Pointer Control".



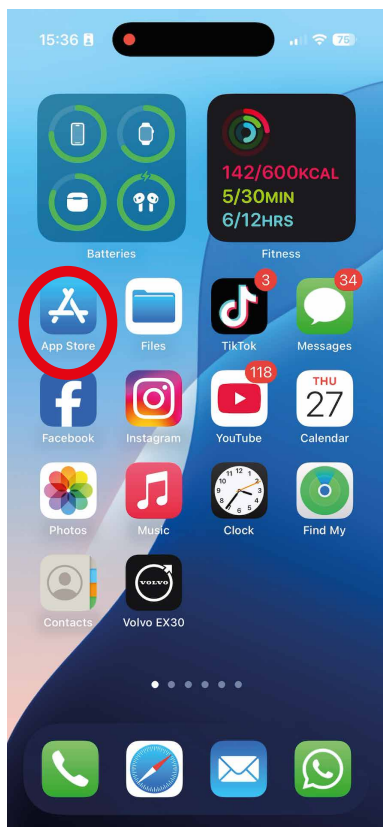
9. Adjust the size, dimension and speed of the pointer.



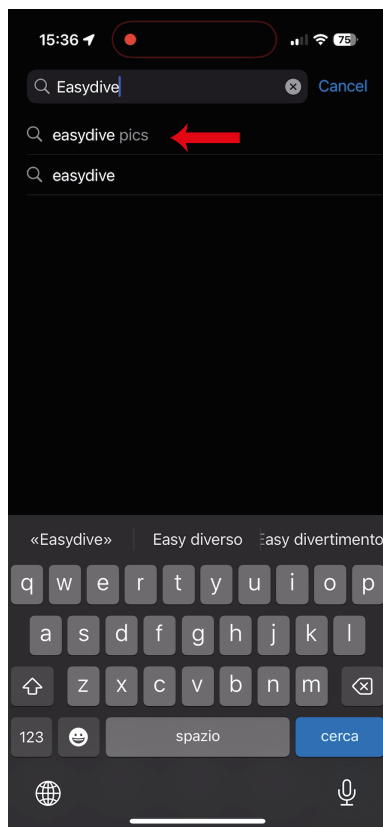
10. Select the red color and set the border thickness of the pointer.

App Easydive Pics (iOS)

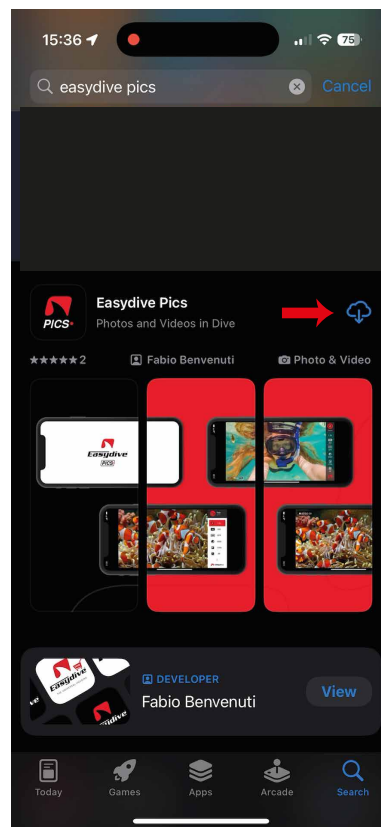
The LeoR Smart housing can be used to take photos and videos underwater via the Easydive Pics app (compatible with all iPhones from iPhone 6s to the latest model released). Follow these steps to download the app and connect the housing:



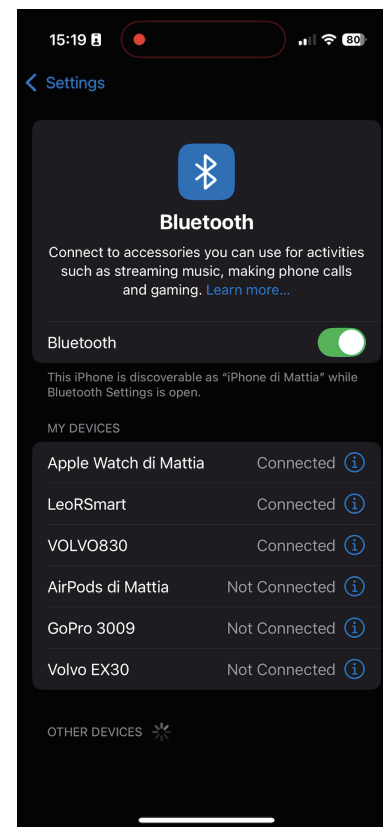
1. Open the App Store.



2. Search for "Easydive" and select Easydive Pics.



3. Install the app.



4. Check that LeoR Smart is connected. The housing LED should be white.

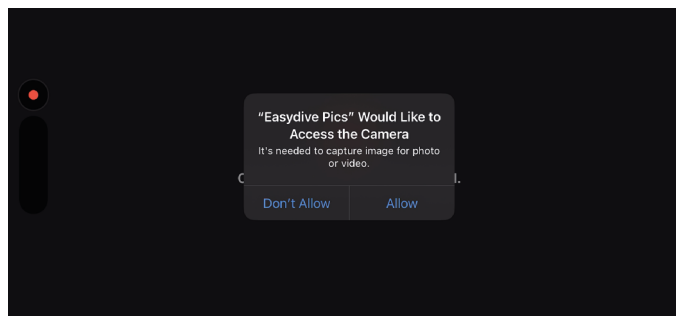


5. Open the Easydive Pics app.

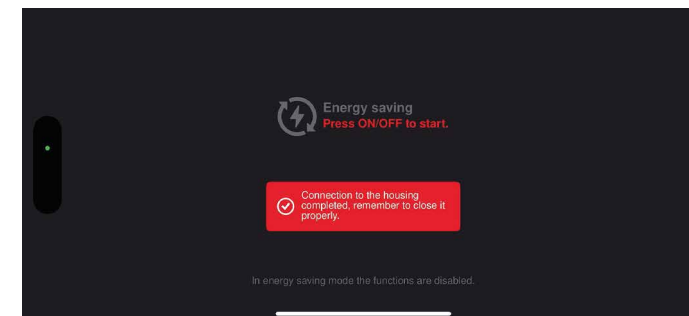
App Easydive Pics (iOS)



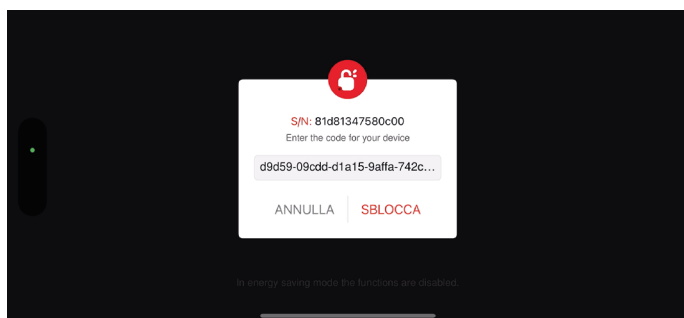
6. A 10-second introductory video will be played.



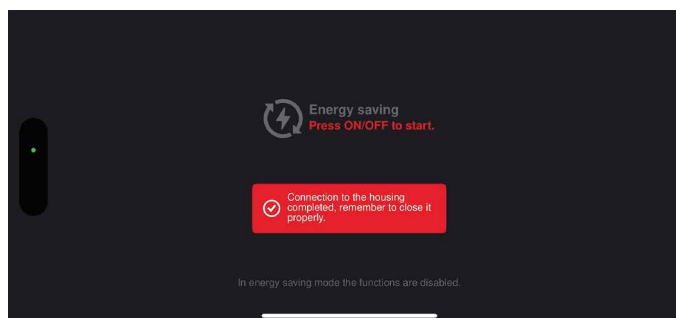
7. Allow access to Camera, Bluetooth, Microphone, and Gallery



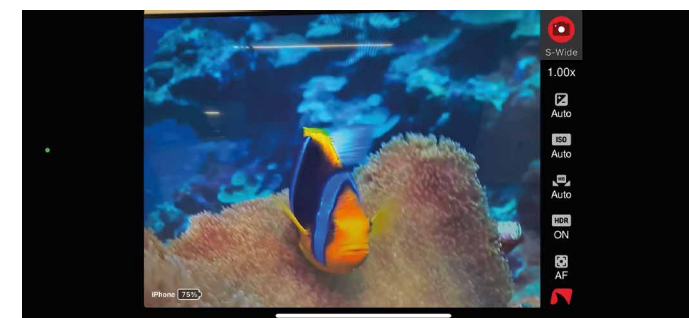
8. A red warning message will appear, indicating that the housing is connected to the phone. Now, press the front red button (Shoot/Rec).



9. Enter the unlock code (it is recommended to copy and paste it) and select "Unlock".



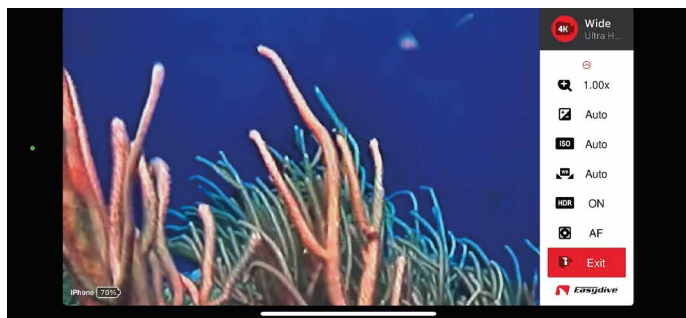
10. Press the front red button again. If nothing happens, you can close the housing. If it asks for the code again, repeat the previous step.



11. Press the on/off button to activate the camera and parameter control.

App Easydive Pics (iOS)

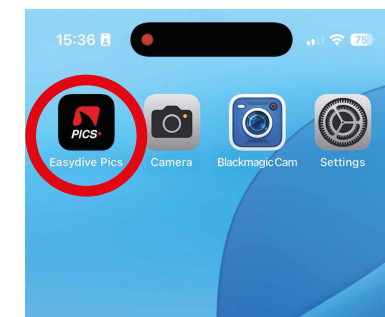
To activate the status reading of the battery and the depth and temperature sensor (if available, optional accessory), you need to restart the app and reconnect by pressing two buttons on the housing.



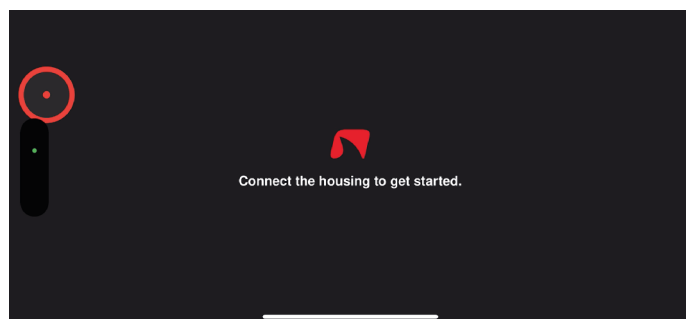
12. Select the "Exit" function from the Easydive Pics app menu.



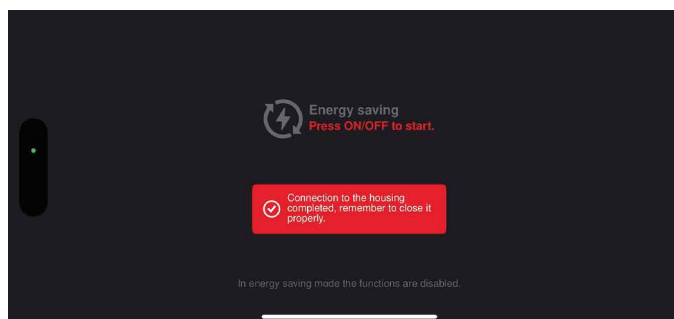
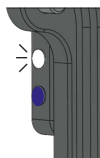
13. Select "Confirm" and press the "OK" button. The app will close, returning to the main menu.



14. Reopen the Easydive Pics app.



15. At the end of the video, a message will appear. Press the "Switch" button (Blue LED on) and then the "OK" button.



16. A red warning message will confirm the connection. Now, press the on/off button.

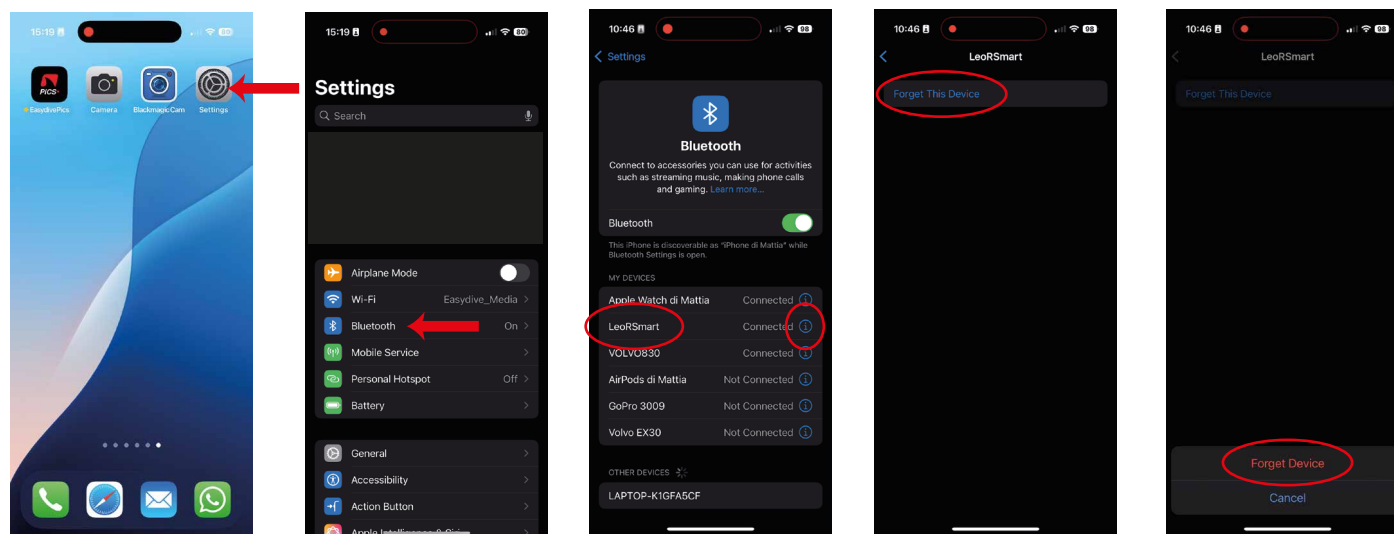


17. The housing battery indicator and depth and temperature data will now be displayed.

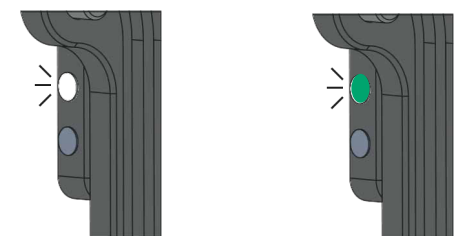
Bluetooth Disconnection

If needed, you can disconnect the phone from the housing. This is recommended when using multiple smartphones with the same housing. Before connecting a new phone, it's advisable to disconnect the previous one.

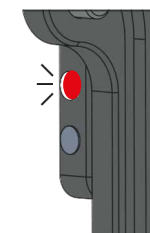
- With the housing turned on, the internal LED will flash white or green, depending on the connected phone type.
- On your phone, go to "Settings".
- Select "Connections" or go directly to the Bluetooth menu.
- Find "LeoR Smart" in the list and tap the icon next to the name (on iPhone, it's a blue "i", on Android, it's usually a gear icon).
- Tap "Forget The Device" (or "Unpair") and confirm.
- The internal LED will flash red, confirming the disconnection.



Housing Connected Housing Connected



Housing Not Connected




LED Guide

The housing features 3 RGB LEDs that provide the user with information about the housing's status. Internal LED, Side LED 1, Side LED 2

The side LEDs are activated only when the housing is properly closed.

Internal LED. Located inside the housing, at the top right, this LED indicates the connection of the housing to the phone status or the battery charging status.

Regarding the Bluetooth connection status, the colors are as follows:

(()) **Flashing Red:**
The housing is on but not connected to any Bluetooth device.




Flashing White or Green:

The housing is on and connected to an iOS device (White) or an Android device (Green).



Regarding the status during charging of the integrated battery, the colors are as follows:

(()) **Flashing Yellow:**
The housing is in Fast Charging mode.



Yellow:


The housing is in Slow Charging mode.



Green:

The housing is 100% Charged.

Side LED 1. Located on the back of the housing, it is visible in the top right corner through the plexiglass screen. This LED indicates the connection status with the phone, confirms the operation of the buttons on the keypad and indicates the activation of the Vacuum mode*.

(()) **Flashing Red:**
The housing is on but not connected to any Bluetooth device.



Flashing White or Green:

The housing is on and connected to an iOS device (White) or an Android device (Green).



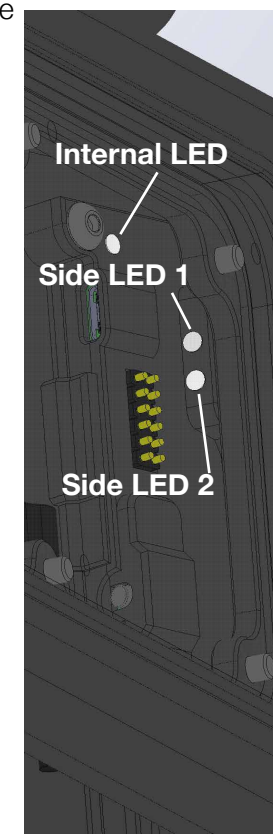
White (iOS) or Green (Android):

When pressing a button on the keypad, the LED stays on until the button is released.



Light Blue:

The Vacuum mode is active.



*Vacuum Mode can always be activated, but to perform the test, the Easydive valve must be installed.







Led Guide

Side LED 2. Located on the back of the housing, visible in the top right corner through the plexiglass screen. This LED indicates the battery charge status, the activation of the "switch" keyboard and the pressure reading status during the Vacuum leak test.

- () **Slow Flashing Yellow** (battery level 20%)
- (()) **Fast Flashing Yellow** (battery level 10%)
- ((())) **Very Fast Flashing Yellow** (battery level 0%)




-  **Blue**
The "Switch" keyboard is active.

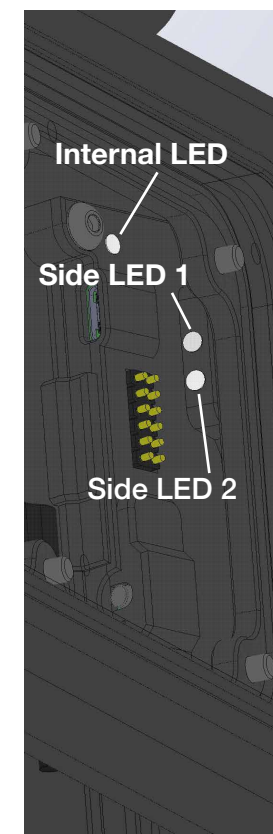
When Vacuum Mode* is activated (Side LED 1 is light blue), the colors of LED 2 guide the user through the test procedure.

- (()) **Flashing Red:**
The pressure sensor is ready for the test, start pumping air out.
-  **Green (steady for 2 seconds):**
The sensor has detected that the set pressure has been reached to begin the test. Stop pumping and close the valve.
-  **Green:**
The LED stays green at the end of the test if the pressure remained the initial one. The housing is sealed properly.
-  **Blue:**
The sensor is detecting a pressure drop, continue pumping.
- (()) **Flashing Green:**
The LED flashes for 3 minutes if no significant increase in pressure is detected.
-  **Red:**
The LED turns red and stays on if a significant pressure change is detected during the test. This indicates that the housing was not sealed properly.

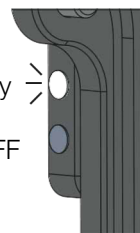
Water Alarm. If the infiltration sensor detects water inside the housing, all 3 LEDs will begin to flash red.

*Vacuum Mode can always be activated, but the Easydive valve must be installed to perform the test.

- (()) Side LED 1
- Internal LED (())
- (()) Side LED 2



Led 1 flashing white
When a button is pressed, the led remains steady
Led 2 OFF



Main Keyboard

1.Focus selection. The available focus modes are “AF” (Autofocus) and “MF” (Focus Lock). Press the button once to switch from AF to MF or vice versa. In Autofocus mode, the camera continuously searches for the best focus for the scene in the frame. By selecting “MF”, the focus will be locked at the last detected point. When using the “Wide” camera, getting closer to the subject and losing focus, the button activates the “Super Macro*” mode. Frame the infinity point and press the button again to deactivate the “Super Macro” mode.

2.Photo capture or start/stop video recording. In photo mode, press once to capture the image. The image preview will be shown in overlay, press any button to return to live view. In video mode, press once to start video recording (a recording time counter will appear on the top left). During recording, press once again to stop video recording (the counter will close).

3.Switch photo/video mode. Press the button once to switch from photo mode to video mode or vice versa.

4.Move selection upwards. Press the button once to open the side menu. With the menu active, select the function above the one already selected. Within a function, select and set the parameter above the one already selected.

5.Confirm selection "OK". Press the button once to open the side menu. With the menu active, enter the selected function. Within the function, go back to the list of functions. Only in the "Exit" function, after selecting "Confirm", the button confirms exiting the Easydive Pics App.

6.Move selection down. Press the button once to open the side menu. With the menu active, select the function below the one already selected. Within a function, select and set the parameter below the one already selected.

7.Change camera. Press once to change the camera in use. The types of cameras that can be used are those present on the phone, in iPhone Pro models “S-WIDE”, “WIDE”, “TELE”, “SELFIE”.

8.Zoom -. Keep the button pressed to smoothly decrease the zoom magnification of the framed image. For each camera it is possible to switch from 1x to 3x.

9.Zoom +. Keep the button pressed to smoothly increase the zoom magnification of the framed image. For each camera it is possible to switch from 1x to 3x.

10.Keyboard switch. Press once to activate the blue LED 2. Read the available commands on the “Keyboard Switch” page for “iOS App - Easydive Pics” (see next page).

11.Activate or deactivate energy saving mode. Press once to activate or deactivate the energy saving screen.

*The “Super Macro” mode is available in all iPhone Pro models from the 13 series onwards.

App iOS - Easydive Pics



Led 1 flashing white
When a button is pressed, the led remains steady

Led 2 blue ON



Switch Keyboard

1.No function connected.

2.No function connected.

3.Activation of Vacuum System mode (Long press 3 seconds). The activation of the Vacuum System mode is confirmed by the lighting of the light blue LED 1, and the flashing red LED 2. Press again to exit Vacuum System mode. For using the Vacuum System, refer to the dedicated page in the user manual.

4. White balance acquisition in manual mode. In the Easydive Pics App menu, select the “WB” (White Balance) function and choose the “Custom” option. A crosshair will appear on the screen. Press this button once or more to perform the white balance reading and setting.

5.Initial connection to the Easydive Pics App. Only for the initial connection of the Easydive Pics App, press this button, ensuring LED 2 is blue (press the Switch button) to activate the App control.

6.No function connected.

7.No function connected.

8.No function connected.

9.Reset Bluetooth connection (6 seconds long press). If needed, you can reset the Bluetooth connection without opening the housing. By holding down for 6 seconds, LEDs 1 and 2 will turn off. Holding the button for 6 seconds will turn off LED 1 and LED 2. Wait for 5 seconds before pressing any button. The connection will then be restored.

10.Keyboard switch. Press once to turn off the blue LED 2 and return to the main keyboard. Read the available commands on the “Main Keyboard” page for “iOS App - Easydive Pics” (see previous page).

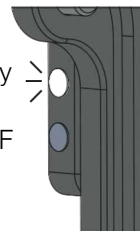
11.Activate or deactivate energy saving mode. Press once to activate or deactivate the energy saving screen.



App iOS - Easydive Pics

Led 1 flashing white
When a button is pressed, the led remains steady

Led 2 OFF



Main Keyboard

To use the following commands, you need to enable iOS Accessibility functions. Follow the instructions in pag. 20.

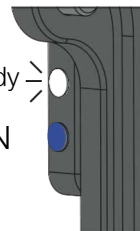
- 1. Mouse click.** Press once to click with the mouse pointer and interact with the elements on the screen. Hold down for 3 seconds to lock the click on the screen and be able to drag it with the arrow keys.
- 2. Volume - (Photo capture or start/stop video recording).** Press once or hold down to lower the volume. In a photo/video capture App, allows to take a photo or record a video.
- 3. Keyboard TAB.** Press once to move the selector to the next section. At the end of the selectable elements, pressing the button will select the first element on the screen.
- 4. Move selection up.** In keyboard mode, press once to select the element above the current selection. Hold to quickly scroll the selection upwards. In mouse mode, hold to scroll the pointer upwards.
- 5. Confirm selection "OK".** Press once to interact with the element selected by the keyboard mode selector.
- 6. Move selection down.** In keyboard mode, press once to select the element below the current selection. Hold to quickly scroll the selection downwards. In mouse mode, hold to scroll the pointer downwards.
- 7. No function connected.**
- 8. Move selection left.** In keyboard mode, press once to select the element to the left of the current selection. Hold to quickly scroll the selection leftwards. In mouse mode, hold to scroll the pointer leftwards.
- 9. Move selection right.** In keyboard mode, press once to select the element to the right of the current selection. Hold to quickly scroll the selection rightwards. In mouse mode, hold to scroll the pointer rightwards.
- 10. Switch keyboard.** Press once to activate the blue LED 2. Read the commands available on the "Switch Keyboard" page for "iOS Operating System" (see next page)
- 11. Activate standby.** Hold down for 3 seconds to put the screen into standby. Press any other key to reactivate the screen. To exit the lock screen, press the "Home" key (See "Switch Keyboard" for "iOS Operating System").

iOS Operating System



Led 1 flashing white
When a button is pressed, the led remains steady

Led 2 blue ON



Switch Keyboard

To use the following commands, you need to enable iOS Accessibility functions. Follow the instructions in pag. 20.

- 1. Volume + (Photo capture or start/stop video recording).** Press once or hold down to increase the volume. In a photo/video capture App, it allows you to take a photo or record a video.
- 2. Volume - (Photo capture or start/stop video recording).** Press once or hold down to decrease the volume. In a photo/video capture App, it allows you to take a photo or record a video.
- 3. Activate Vacuum System mode (Hold for 3 seconds).** The activation of the Vacuum System mode is confirmed by the lighting of the blue LED 1 and the flashing red LED 2. Press once more to exit the Vacuum System mode. For the use of the Vacuum System, refer to the dedicated page in the user manual.
- 4. No functions connected.**
- 5. Initial connection to the Easydive Pics App.** Only for the initial connection of the Easydive Pics App, press this button, ensuring LED 2 is light blue (press the Switch button) to activate the App control.
- 6. Switch keyboard/mouse mode.** Press once to switch from mouse to keyboard mode or vice versa. The switch keyboard will be disabled once the button is pressed, so you can move the selector or mouse pointer.
- 7. Switch iOS/Android keyboard operating system (Hold for 6 seconds).** Hold the button for 6 seconds until LED 1 changes color (White if iOS keyboard mode is activated, green if Android keyboard mode is activated). Select the correct keyboard for the phone you're using (if you use the iOS keyboard on an Android phone, functionality is not guaranteed).
- 8. Home.** Press once to close the app you're using and return to the home screen of the phone. On the phone's lock screen, press once to return to the last active screen.
- 9. Reset Bluetooth connection (Hold for 6 seconds).** In any case, you can reset the Bluetooth connection, without opening the housing. Holding the button for 6 seconds will turn off LEDs 1 and 2. Wait 5 seconds before pressing any button. The connection will be restored.
- 10. Keyboard switch.** Press once to turn off the blue LED 2 and return to the main keyboard. Read the available commands on the "Main Keyboard" page for the "iOS Operating System".
- 11. Standby activation.** Hold for 3 seconds to put the screen in standby. Press any other key to reactivate the screen. To exit the lock screen, press the "Home" key.

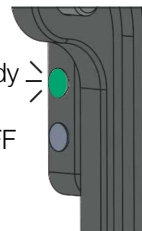
iOS Operating System



Led 1 flashing green

When a button is pressed, the led remains steady

Led 2 OFF



Main Keyboard

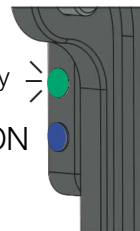
- 1. Volume + (Photo capture or start/stop video recording).** Press once or hold to increase the volume. In a photo/video capture App, allows you to take a photo or record a video.
- 2. Volume - (Photo capture or start/stop video recording).** Press once or hold to decrease the volume. In a photo/video capture App, allows you to take a photo or record a video.
- 3. Keyboard TAB.** Press the button once to move the selector to the next section. At the end of the selectable elements, pressing the button will select the first item on the screen.
- 4. Move selection up.** Press once to select the item above the currently selected one. Hold the button to quickly scroll the selection upwards.
- 5. Confirm selection "OK".** Press the button once to interact with the selected element. Hold for 3 seconds to press the "space" key (useful for exiting screen lock).
- 6. Move selection down.** Press once to select the item below the currently selected one. Hold the button to quickly scroll the selection downwards.
- 7. No function connected.**
- 8. Move selection left.** Press once to select the item to the left of the currently selected one. Hold the button to quickly scroll the selection leftwards.
- 9. Move selection right.** Press once to select the item to the right of the currently selected one. Hold the button to quickly scroll the selection rightwards. In mouse mode, hold to move the pointer right.
- 10. Switch keyboard.** Press once to activate the blue LED 2. Read the commands available on the "Switch Keyboard" page for "Android Operating System".
- 11. Activation of standby.** Press and hold for 3 seconds to put the screen into standby. Press any other key to wake up the screen. To exit the lock screen, press and hold the "OK" button for 3 seconds.

Android Operating System



Led 1 flashing green
When a button is pressed, the led remains steady

Led 2 blue ON



Switch Keyboard

1. Volume + (Photo capture or start/stop video recording). Press once or hold to increase the volume. In a photo/video capture App, it allows you to take a photo or record a video.

2. Volume - (Photo capture or start/stop video recording). Press once or hold to decrease the volume. In a photo/video capture App, it allows you to take a photo or record a video.

3. Activate Vacuum System mode (Hold for 3 seconds). The activation of Vacuum System mode is confirmed by the lighting of LED 1 in blue and LED 2 flashing red. Press once more to exit Vacuum System mode. For Vacuum System usage, refer to the dedicated page in the user manual.

4. No function connected.

5. No function connected.

6. Back. Press once to return to the previous screen.

7. iOS/Android keyboard operating system change (Hold for 6 seconds). Keep the button pressed for 6 seconds, until the LED 1 changes color (White if the iOS keyboard mode is activated or green if the Android keyboard mode is activated). Select the right keyboard for the phone you are using (if you use the iOS keyboard on an Android phone, functionality is not guaranteed).

8. Home. Press once to close the currently active app and return to the phone's main screen.

9. Bluetooth connection reset (Hold for 6 seconds). In case of issues, you can reset the Bluetooth connection without opening the housing. Hold for 6 seconds and LEDs 1 and 2 will turn off. Wait 5 seconds before pressing any button. The connection will be restored.

10. Keyboard switch. Press once to turn off the blue LED 2 and return to the main keyboard. Read the available commands on the "Main Keyboard" page for "Android Operating System".

11. Standby Activation. Hold for 3 seconds to put the screen in standby. Press any other key to reactivate the screen. To exit the lock screen, hold the "OK" key for 3 seconds (See "Main Keyboard" for "Android Operating System").

Android Operating System



Charging Management

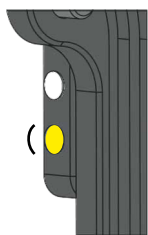
The housing is equipped with a built-in 5000 mAh 3.7 V battery, rechargeable via a USB-C cable.

The battery's charging and discharging are managed by a power-delivery chip, which communicates with the smartphone and/or the charger to optimize the charging process.

1. Open the housing before proceeding with charging.
2. Turn on the electronics using the power button. If the housing is not powered on before charging, the power-delivery chip will not manage the charging speed. As a result, charging will occur in slow mode and the LED will not turn yellow but will remain flashing red or white/green if connected to a Bluetooth device.
3. Insert the USB-C cable into the connector.
4. The LED will turn yellow. If the charger supports fast charging, the yellow LED will start flashing. If the charger does not support fast charging, the yellow LED will remain steady.
5. Once charging is complete, the LED will turn green. If left plugged in for an extended period, the charge status indication may disappear. Simply unplug and reconnect the cable to check the full charge status (green LED) after a few seconds.
6. The battery will always charge more slowly between 90% and 100% to preserve its lifespan. If using a fast charger, the battery will charge quickly from 0% to 90% (flashing yellow LED), then slowly from 90% to 100% (steady yellow LED) until full charge is reached (green LED).
7. Remove the charging cable. The LED will start flashing red if not connected to any Bluetooth device or it will flash white (if connected to an iOS device) or green (if connected to an Android device).
8. Turn off the electronics.

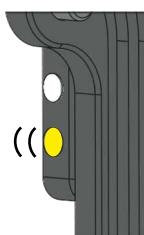
During use, the side LED 2 will start flashing yellow to indicate:

Slow flashing



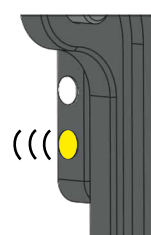
20%
Battery level

Fast flashing



10%
Battery level

Very fast
flashing



0%
Battery level



Turn on the electronics



Insert the charging cable



Charging complete (Green LED)

Battery Life and Charging Times

The battery life of the housing depends on the usage mode:

- Battery life starting from 100%, without a charging cable for the phone: **100 hours**.
- Battery life starting from 100%, with a charging cable (phone starts at 100%): **3 to 6 hours, depending on camera usage**.
- Battery life starting from 100%, with a charging cable and continuous recording on SSD: **2 hours**.

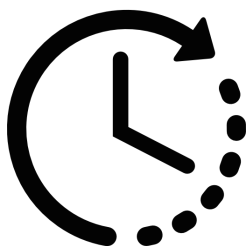
Charging time depends on the type of charger used. We recommend using your smartphone's charger (if it is a USB-C charger with a USB-C cable on both ends) or purchasing our recommended charger.

Charging times:

- From 0% to 90% with fast charging: **approximately 1 hour and 20 minutes**. The last 10% charges slowly, taking about 40 minutes, for a total charging time **of about 2 hours**.
- From 0% to 100% with slow charging: **approximately 7 hours and 30 minutes**.

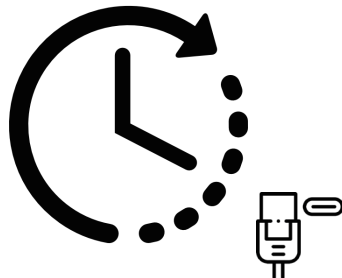
LeoR Smart Battery Life

Without Smartphone
Charging



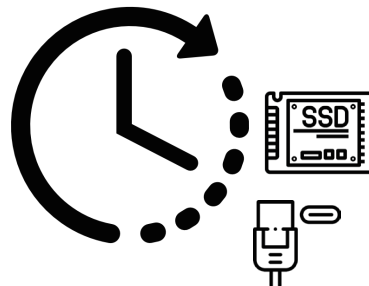
100 hours

With Smartphone
Charging



3 to 6 hours

With Smartphone
Charging & SSD Recording



2 hours

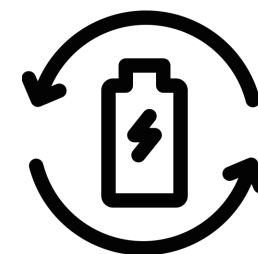
Life & Charging Times

Fast Charging



2 hours

Slow Charging

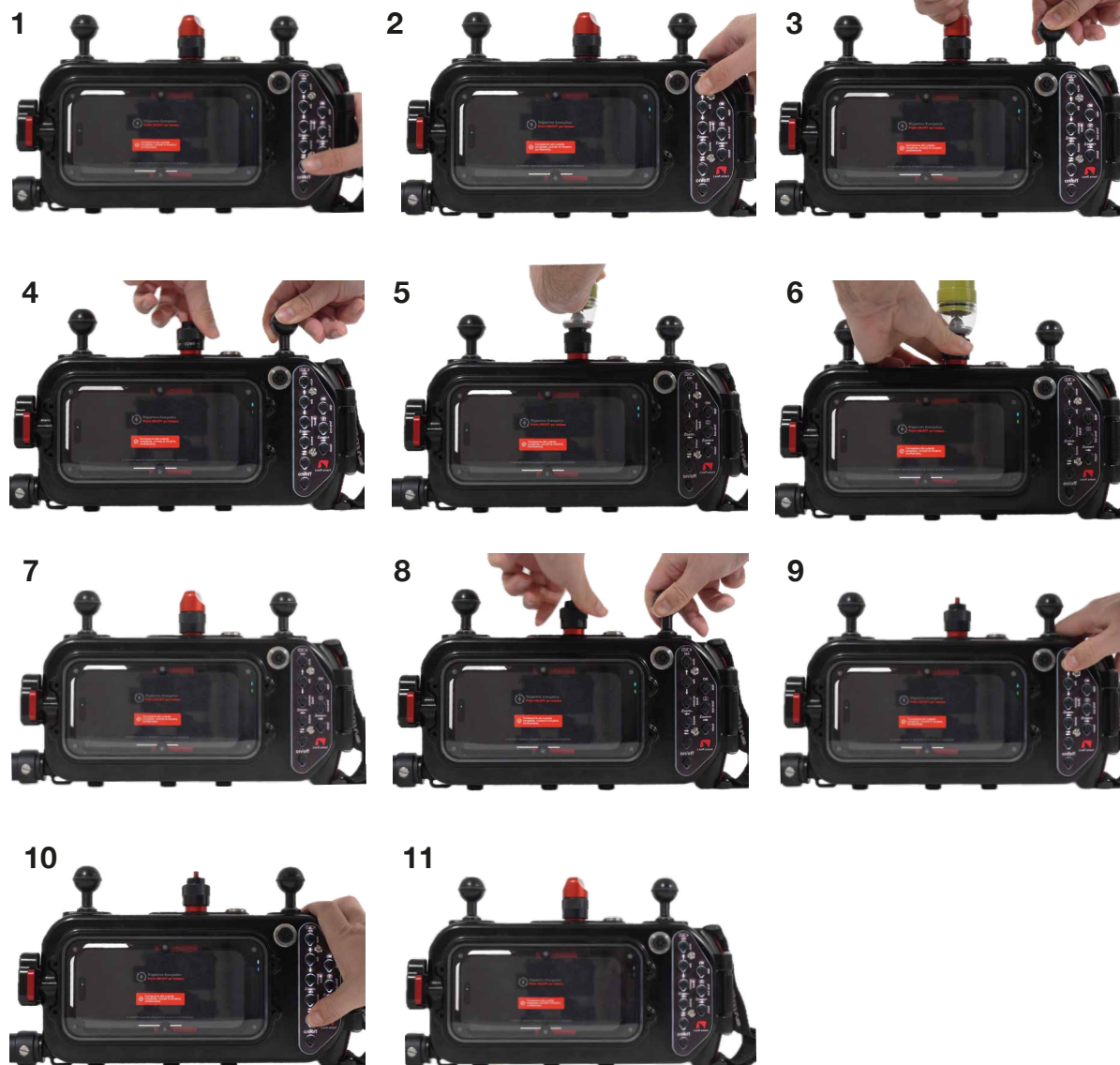


7 hour and 30 min

Vacuum System

The Vacuum Leak Test is an effective method to verify the proper closure of the housing and ensure its waterproof integrity. To perform the test, the Vacuum Valve must be installed and the pump must be available. Follow these steps:

1. Press the switch button, blue Side LED 2.
2. Press and hold the Vcm button until Side LED 1 turns light blue and Side LED 2 starts flashing red.
3. Unscrew the red cap from the Vacuum Valve.
4. Loosen the Vacuum Valve body until you hear air entering.
5. Use the pump to create a vacuum.
6. When Side LED 2 turns green, stop pumping and, while keeping the pump pressed against the valve with one hand, tighten the Vacuum Valve body to close the air passage. If no air escapes during this step, Side LED 2 will start flashing green; otherwise, it will turn red (in this case, repeat the operation by pressing the Vcm button).
7. Insert the red cap and wait for 3 minutes. After this time, if the test is successful, Side LED 2 will remain steady green; otherwise, it will turn red, indicating a failed test.
8. Open the valve again by removing the cap and rotating the valve body to normalize the pressure.
9. Press the Vcm button to return to operating mode (Side LED 1 flashing and Side LED 2 blue).
10. Press the switch button, Side LED 2 off.
11. Close the valve and insert the red cap.



Good Habits

1. Visual Check Before Each Use

- Carefully inspect the case to make sure there are no cracks, deep scratches or deformations.
- Ensure the buttons are intact and functional (when pressing a button, the Led 1 should remain steady).
- Check that the O-rings are properly seated and free of wear, dirt, hair, or sand.

2. Cleaning the O-rings

- Never remove the O-rings unless explicitly instructed by Easydive technical support.
- Before each dive, gently clean the O-ring area with a clean, dry cloth.
- Apply a light lubrication with silicone grease or petroleum jelly, spreading it evenly. A minimal amount is enough.

3. Correct Closing

- Open and close the housing vertically to avoid water droplets from entering.
- Ensure no cables, straps, or objects obstruct the seal.
- Make sure there are no foreign objects in the keypad area, especially on the right side.

4. Post-Dive Cleaning

- After each dive, rinse the housing thoroughly with fresh water to remove salt, sand, or chlorine.
- Let the housing dry completely before opening it, or dry it well with a cloth.
- If possible, submerge the closed housing in fresh water for a few minutes, then press all the buttons to clear any residues. You can also slightly loosen the screws that hold the buttons plates to release any residue more easily.

5. Storage

- Store the housing in a dry, clean place, away from direct sunlight.
- Always store it closed, especially during long periods of inactivity.
- Fully charge the housing before storing it for extended periods.

6. Battery Status

- Keep the internal battery in good condition by charging it before a period of non-use.
- Avoid letting the battery fully discharge for extended periods to prevent loss of capacity.

7. Use and Care of the Charging Cable (if used)

- Only use the cable provided by Easydive and check its condition over time.
- Ensure there are no kinks or signs of wear on the cable.
- If the phone overheats, consider not using it during the dive or enabling standby mode when the screen isn't needed.

Warnings

- 1. Housing on Airplanes:** During air travel, do not fully seal the housing. Place the housing back on the body without securing the knob. This prevents difficulty in opening due to cabin pressurization.
- 2. O-rings:** Never remove the O-rings from the housing. Before each dive, apply a thin layer of silicone grease or petroleum jelly — only a minimal amount is needed.
- 3. Housing Storage:** Always store the housing fully sealed, even when not in use.
- 4. Battery During Inactivity:** If you do not use the housing for an extended period, make sure to leave it fully charged. An unused and partially charged battery may lose capacity over time.
- 5. Opening and Closing the Housing:** Always open and close the housing in an upright position to prevent external water droplets from entering.
- 6. Closure Check:** Ensure no cables, straps or other objects obstruct complete closure. Inside, make sure there are no objects in the right-side area where the keypad closes, ensuring a perfect seal.
- 7. Phone Usage Mode:** Use the phone in airplane mode with Bluetooth activated. This prevents notifications or calls during the first meters of the dive.
- 8. Phone Charge Level:** Insert the phone with a battery level between 90% and 100%. This ensures enough autonomy for about three 50-minute dives, even without the charging cable. If using the charging cable, start with a high battery percentage to reduce overheating risks and extend the housing's runtime.
- 9. Phone Overheating:** If using the charging cable during the dive, the phone may overheat, especially if the water temperature exceeds 27°C or if continuous video recording is in progress. In this case, a protection message will appear on the screen and the phone will shut down temporarily (it will restart automatically when the temperature decreases, typically in about 4 minutes). To prevent this issue, frequently put the screen on standby or avoid using the charging cable.
- 10. Water Alarm:** If the two wires located inside the lower right section come into contact (because water touches both wires), an audible alarm will be triggered, and all LEDs will start flashing red. Surface immediately while keeping the housing vertical so that water remains at the bottom. Turn off the housing and thoroughly dry all internal parts with a hairdryer. Attempt to restart only after carefully drying the unit.
- 11. Bluetooth Issues:** If the Bluetooth connection does not work, unpair the LeoR Smart from the connected devices, then:
 - Close the housing without inserting the phone.
 - Press the switch button (Side LED 2 will turn blue).
 - Press and hold the Reset button for 6 seconds until the LEDs turn off.
 - Retry the Bluetooth connection.
- 12. Power On/Off Issues:** If the housing does not turn on or off, press the reset button using a pinhole tool to restore functionality.
- 13. Keyboard Check:** For iOS devices, Side LED 1 should flash white. For Android devices, Side LED 1 should flash green. If the LED color does not match, change the keyboard mode: Press the Switch button (Side LED 2 will turn blue), then hold the iOS/And button for 6 seconds until Side LED 3 turns green or white, depending on the device used.
- 14. Protective Zinc Anode:** The housing has a protective zinc anode that safeguards the aluminum body from oxidation during dives. The zinc will change appearance after the first dives. It is recommended to replace it once a year during routine maintenance. Do not dive without the protective zinc.
- 15. Phone Backup:** Always back up your phone before using it for diving. This ensures you can recover data in case of malfunctions.

Warranty and Maintenance

The LeoR Smart universal underwater housing is covered by the official Easydive warranty, which protects against manufacturing defects in materials and workmanship.

The warranty lasts for 12 months from the date of purchase. For non-EU countries, we extend it by an additional 6 months.

The warranty can be renewed annually, provided that the standard maintenance service is performed at Easydive. Every time maintenance is performed, the warranty is automatically extended for an additional 12/18 months. This cycle can be repeated throughout the product's life, making the warranty potentially unlimited, as long as the maintenance program is followed.

The warranty does not cover:

- Damage caused by misuse, impacts, or negligence.
- Water infiltration due to improper sealing, inadequate maintenance or non-compliant use.
- Unauthorized interventions or modifications to the product.

To request warranty assistance, you must present proof of purchase and the annual maintenance certificate. For more information:

<https://www.easydive.it/en/info/easydive-warranty>

The annual standard maintenance is essential to ensure optimal performance and maintain the continuity of the warranty.

Includes:

- General inspection of the housing.
- Inspection and replacement of O-rings if necessary.
- Internal and external cleaning.
- Pressure leak test.

It is recommended to perform maintenance at least once every 12/18 months or after 100 dives, whichever comes first. Failure to perform maintenance will void the warranty.

To schedule maintenance, visit <https://www.easydive.it/en> or contact Easydive customer support.

Technical Specifications

Length	29 cm
Height	14 cm
Width	6,5 cm
Dry Weight	1,9 Kg
UW Weight	0,3 Kg
Body Material	Anodized Anticorodal Aluminum 40 microns
Screen Material	Plexiglass
Maximum Depth	150 meters
Screw Pitch	2 M6 and 3 M8 on the bottom – 3 M6 and 4 M5 on the top – 1 M6 Left-side lateral – 4 M4 on the back – 8 M4 on the front
Arm Mounting	2 standard 25mm balls or Quick Release (Optional) or 2 T-base
Controls	1 Ergonomic Keypad – 11 Magnetic Wet Contact Buttons
Connection	Bluetooth

Integrated Battery	5000 mAh 3.7 V
Charging	USB-C Power Delivery, Fast Charging
Battery Lifetime	100 hours without phone recharge, from 2 to 6 hours with phone recharge.
Charging Times	2 hours for fast charging, 7 hours and 30 minutes for slow charging.
Air Travel	Yes, 18,5 Wh < 100 Wh
Compatibility	More than 5000 iOS and Android models.

leo^R smart



Easydive[®]

LEORSMART