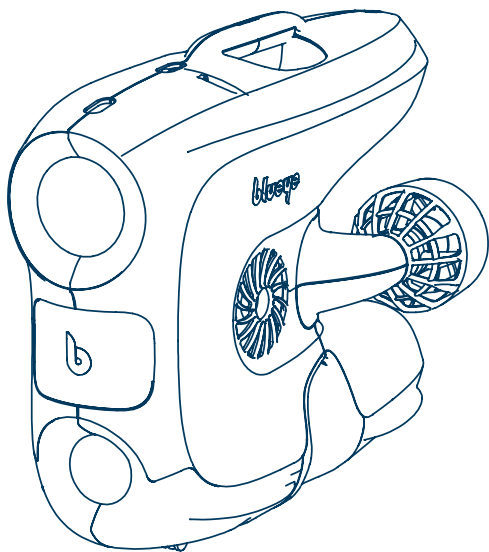


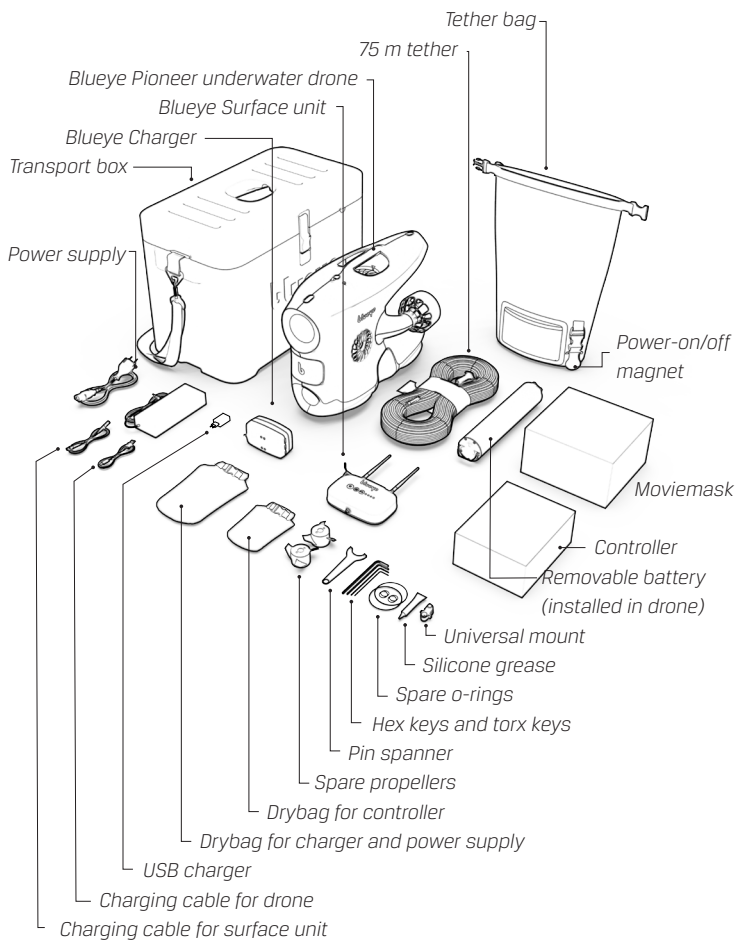
START GUIDE



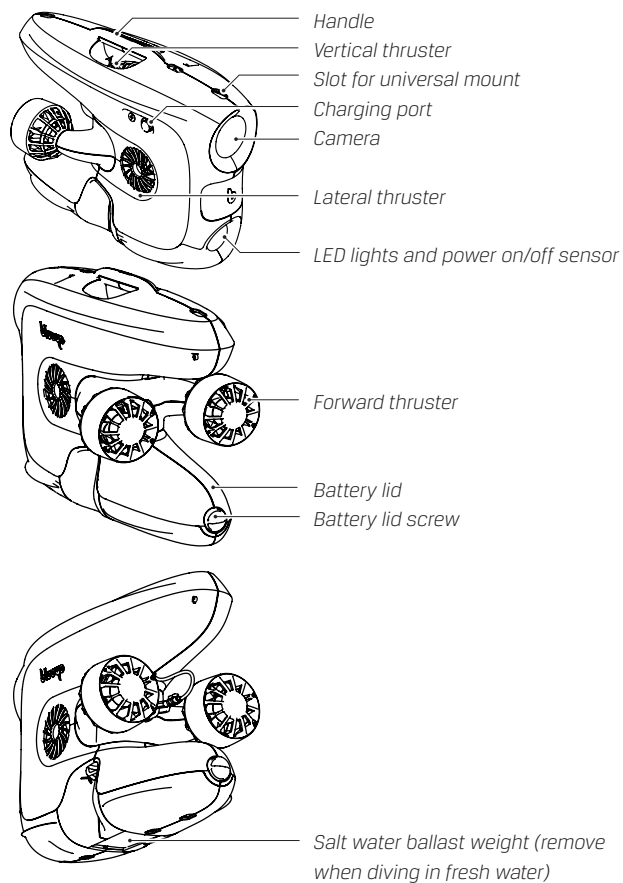
REV K

blueye / PIONEER

In the box

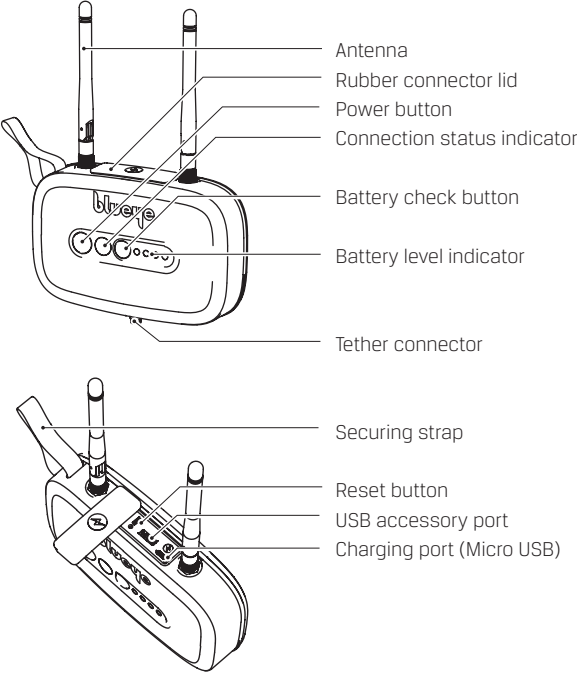


Drone

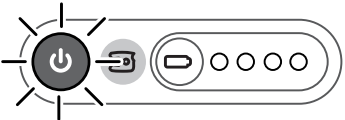


The drone is safe to submerge in water to a depth of 150 m.

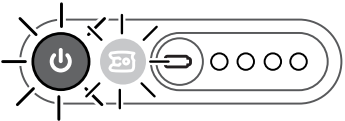
Surface Unit



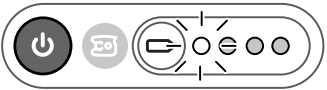
The surface unit can withstand water spray from any direction (IP64) when the rubber connector lid is properly attached. **The surface unit CANNOT be submerged in water.**



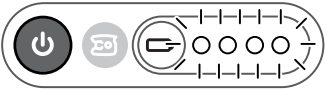
The surface unit is turned on.



The surface unit is turned on and



connected to the drone.

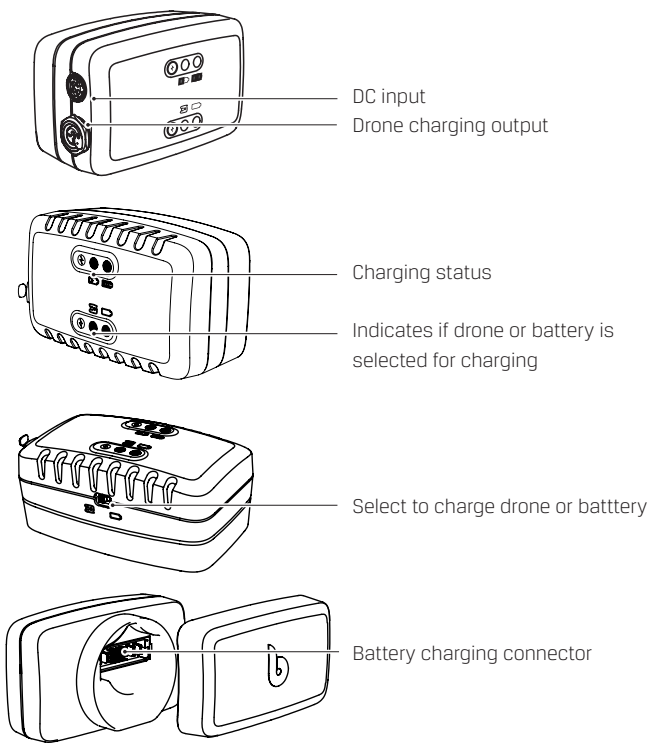


Battery level is low. Push the button with the battery symbol to check the battery level.
Battery is fully charged. Push the button with the battery symbol to check the battery level.

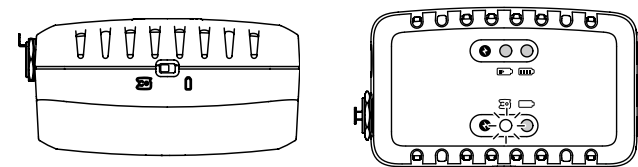


The operator shall maintain a minimum distance of 20 cm to the two antennas of the surface

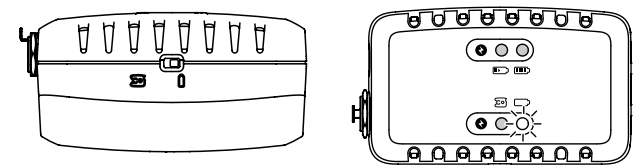
Charger



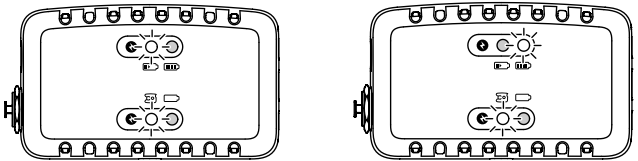
The charger is NOT splash proof. it needs to be kept away from water and dust.



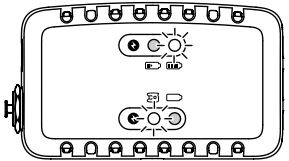
To charge the drone with the battery charger cable, set the charger selector switch to the drone symbol.



To charge the battery by connecting it directly to the charger, set the charger selector switch to the battery symbol.



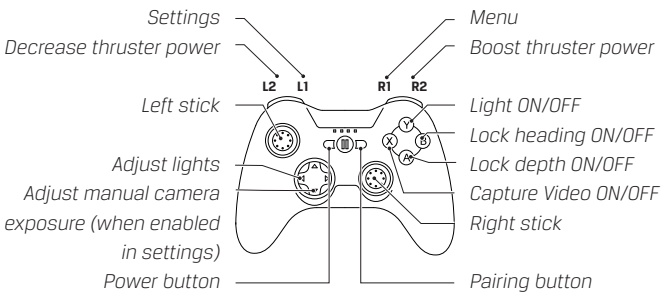
The battery is charging.



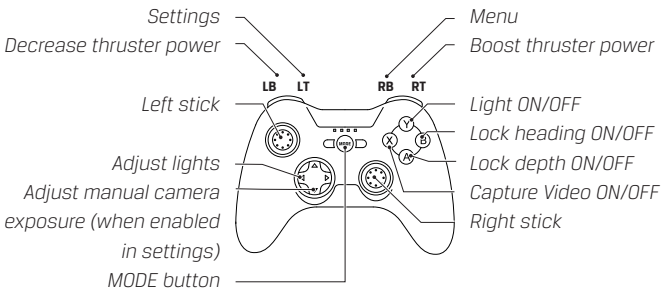
The battery is fully charged.

Remote controller

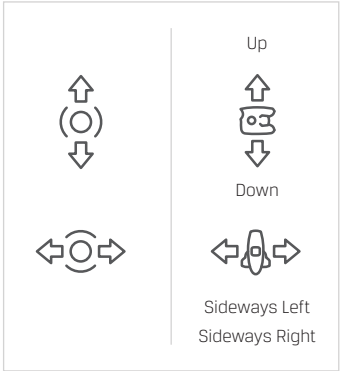
iOS



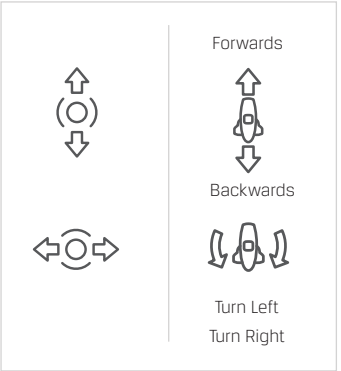
Android



Left Stick



Right Stick



Use the left and right lower triggers (**L2** and **R2**) to gradually decrease or boost the thrust power. Decreasing the thrust is recommended in situations where higher precision is needed, for example stable video shoots or tricky navigation. Boosting of the thrust can be helpful when diving in higher currents or if faster motion is needed. Note that boosting will drain the battery faster.



The remote controller is NOT splash proof. It needs to be kept away from water and dust.

Evaluating conditions and safety

Do your first few dives in line of sight in calm waters to get accustomed to the controls and the behaviour of the vehicle.

✓ Ok to dive



Dive down to 150 m.



The drone can handle rain and snowy weather.



Dive in open water.

⚠ Beware



Avoid diving close to precious corals.



Beware of structures and rocks where the tether may get stuck.



Avoid diving in unknown water with very poor visibility.



Beware in areas with kelp and seaweed as the tether may get stuck.

⚠ Beware of wifi limitations



In areas with lots of electromagnetic interference you may experience lag or artefacts in the video stream. Electromagnetic interference may be caused by large steel or concrete structures or areas with lots of other WiFi activity. To resolve this you can try to move closer to the surface unit or move to another location.

⚠ Beware



Children should only operate under the supervision of adults

⊘ DO NOT DIVE



Currents greater than 1,5 m/s.



Keep tether away from propellers.



Keep a safe distance of 20 m from people



During thunder storms.

⊘ SAFETY



NEVER drop the surface unit into water.



DO NOT spin thrusters in air, they rely on water as lubricant for the bearings.

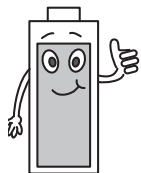


DO NOT touch spinning propellers.



DO NOT turn on the lights in air to prevent overheating the LEDs.

Preparing for launch



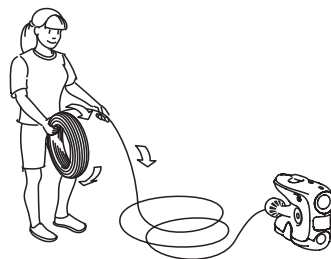
80%

Make sure the batteries on the drone, surface unit, controller and mobile device are at least 80% charged before you go diving.



20%

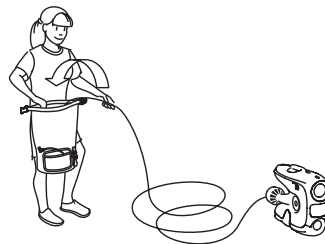
When the battery in the drone reaches 20% when diving, go back to shore.



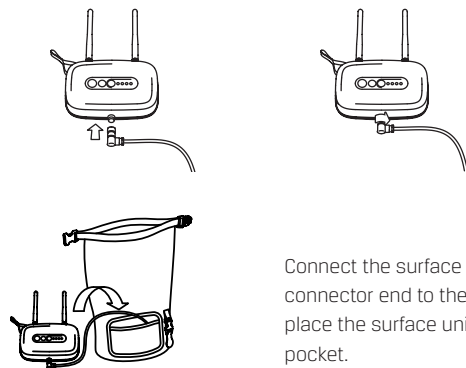
To avoid tangle on the tether, do not pack it all at once. First unroll all the tether. Make sure that there are no knots.



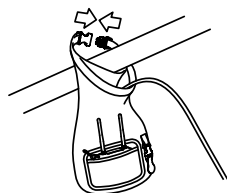
Once unrolled, take the loose end and put it into the tether bag and pull it out through the hole in the mesh pocket.



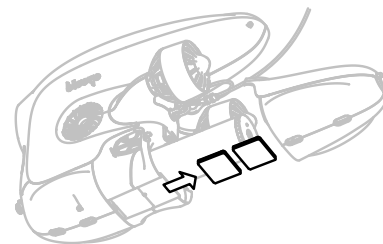
Then pack it 1 m at a time into the tether bag.



Connect the surface unit tether connector end to the surface unit and place the surface unit in the mesh pocket.



Attach the bag with the roll top buckle to something stationary to avoid that the bag gets dragged into the sea. It could be the boat, dock railing or a tree.



Sea water and fresh water have different density, and ballast weights are provided to compensate for the difference.

Configurations:

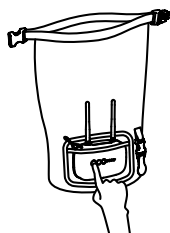
Fresh water:	no ballast weights
Brackish water:	1 ballast weight
Salt water:	2 ballast weights

Variations in salinity may occur. Always check that the drone floats before diving. If not, remove a plate.

Turn on & connect



Download the Blueye App. Search for "Blueye" in the App Store or Google Play. To avoid interruptions during the dive, put the mobile device in Airplane mode before diving. Make sure that Wi-Fi and Bluetooth are still on.



Turn on the surface unit by pressing the power-on button. The power button will light up and the surface unit will initialize and the battery status LEDs will sweep from side to side. Once the initialization is completed the battery status LEDs will show the current battery charge.



Turn on the drone by putting the "ON" side of the magnet attached to the tether bag against the LED light window until a melody is played and lights start blinking.



To connect the drone to a mobile device, go to Wi-Fi settings, connect to **"Blueye_XXXXXX"** (Default password is: **1234567890**).



Turn on the controller in pairing mode

iOS: Turn on the controller by press and hold the on button until the lights start blinking. Press and hold the Bluetooth button until the lights starts blinking at a faster rate.

Android: Turn on the controller and put it in pairing mode by pressing the Mode button and the A button at the same time. Verify that the first light blinks at a fast rate.



Connect the controller

To connect the controller to a mobile device, go to Bluetooth settings and select the controller. The name of the iOS controller is Speedy Gaming Controller and on Android the name is PXN-9613.

If the controller is not found or you are unable to connect, re-start the controller and turn Bluetooth off and on.

Calibrating the drone compass

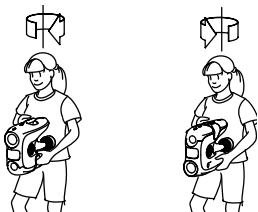


Do not calibrate your compass where there is a chance of strong magnetic interference, such as magnetite, large steel structures or steel reinforcements underground.

It is recommended to calibrate the compass in any of the following situations:

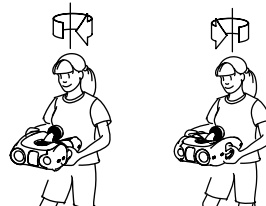
- Before first dive after receiving your drone
- Diving at a new location after traveling with your drone
- When the Blueye app warns you that the compass needs calibration

Compass Calibration

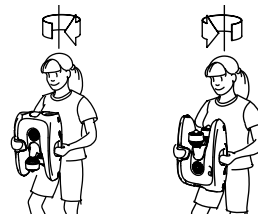


1. Tap the "Compass Calibration" button under "Drone Settings" in the app, then follow the on-screen instructions.

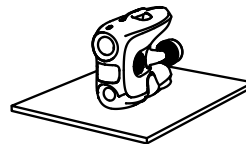
2. Hold the drone vertically and turn around 360°. Flip the drone upside down and turn back around 360°.



3. Hold the drone lying on its side and turn around 360°. Flip the drone so that it is lying on its other side and turn back around 360°.



4. Hold the drone with the camera pointing up and turn around 360°. Flip the drone so that the camera is pointing down and turn back around 360°.



5. Place the drone securely on a horizontal surface and tap "Finish calibration" in the app. Leave the drone for a while for the drone to finish the calibration.