

Ibex2 User Guide

Introduction

The Ibex2 is a high performance wall/ceiling traversing ROV (remotely operated vehicle) developed by RoverTec. It uses a high speed vacuum motor, combined with high power density lithium polymer batteries, to enable it to adhere to a wide range of surfaces. This guide will illustrate the basics of how to get started with your new Ibex2!

Unpacking and charging

Your Ibex2 box should include the following items:

1. 6-cell Lithium-Polymer battery charger, with Ibex2 charger cable
2. TGY-i6S Controller
3. Ibex2 Wall Climbing Robot

Before attempting to use your Ibex2, please connect it to the charger to ensure that the batteries are fully charged and ready. Follow the following steps to charge your Ibex2:

1. Ensure the Ibex2's switch, located on its top side, is in the OFF position!



2. Plug your Lithium-Polymer battery charger into a wall outlet with AC power.
3. **IMPORTANT:** Ensure the switches on the top of the charger are set to LiPo and 1A. DO NOT CHANGE THESE SETTINGS.

4. Locate the 7-pin JST-XH to 7-pin JST-XH charging cable (located in box with charger).
5. Plug one end of the charging cable into the connector on the underside of the lbex2.



6. Plug other end of charging cable into charger.



Once you have followed through these steps, you will notice the six 1S-6S lights glow red and occasionally blink. The Charge Status light will glow red when charging, orange when almost charged, and green when the Ibex2 is done charging. Only unplug the Ibex2 from the charger when the Charge Status light glows GREEN.

Your Ibex2 is charged and ready to go! The only other batteries to monitor are the 4 AA batteries in your TGY-i6S Controller. They should last a long time, but you will need to change them eventually.

Powering up and Using Your Ibex2

Follow these steps to turning on your Ibex2 and learning to use it for the first time:

1. You will see two power buttons on the controller. Hold these at the same time, and after a couple of seconds, a song will play and the screen will turn on.
2. Ensure that the left joystick on the controller is pulled all the way DOWN.
3. Switch the Ibex2's power switch to the ON position. You will hear another song play, the status light will flash between red and green a few times, and then you will see a solid green light.
4. You are now in control of the Ibex2. To start, move the right joystick around gently to get a feel for how it controls the vehicle. This controls the Ibex2's drive wheels. Drive the Ibex2 around on the floor for a while to get used to it. KEEP LEFT JOYSTICK ALL THE WAY DOWN.
5. Once you are used to driving the Ibex2, you may try driving on a wall, close to the ground. Hold the Ibex2 onto a wall, and SLOWLY raise the left joystick. You will hear the vacuum motor speed up, it will be very loud! You should only need to raise the left joystick up to the MIDDLE. DO NOT raise the left joystick all the way up, only raise it as much as you need to ensure the Ibex2 will adhere to the surface you wish to drive on.

Battery life and when to charge

The Ibex2 can last up to 11 minutes on a full charge. If you use the Ibex2 for a full 11 minutes, you will start to notice the fan speed slowing down, and the Ibex2 will start falling from the surface it is on. Once you notice this, you must lower the left joystick as soon as possible. This is a sign that the battery is dying, and the Ibex2 is lowering the fan speed to save the batteries. It is recommended that you make sure the Ibex2 is within reach after 9-10 minutes of use, so that it will not fall and damage itself if the battery dies.

There are four switches at the top of the controller. The left switch, when pulled down, starts a built-in timer that counts down from 10 minutes. You can use this as your battery timer. If you need to reset the timer, pull the right-most switch down and push back up again. Congratulations, you now know how to use your Ibex2 wall climbing robot!

Warranty and Terms

- The RoverTec Ibex2 is warrantied against manufacturer defects for a period of 30 days from the date of delivery to the customer.
- RoverTec and Luke Whitaker are not liable for any personal injury or property damage caused by the Ibex2, including, but not limited to: burns resulting from heated components, fire, explosion, or electrocution from Lithium Polymer batteries, and any impacts from a falling product.
- RoverTec and Luke Whitaker are not liable for any complaints regarding noise levels or violations of privacy resulting from the use of the Ibex2.
- Reverse-engineering of the Ibex2, and any of the technology utilized in the product, to create a competing product is strictly prohibited.
- Modification of the Ibex2 is prohibited, and neither RoverTec nor Luke Whitaker are liable for any modified products.
- Only authorized RoverTec resellers and distributors may resell the product for any profit.
- Any Ibex2 user must agree to these terms before operating the product.