

timeTec  
**HuBot**  
OPERATION MANUAL



## Table of Contents

1.	READ ME FIRST .....	3
2.	PRODUCT SPECIFICATIONS .....	4
3.	QUICK SETUP GUIDE .....	5
4.	HOW TO SETUP VISITOR RECOGNITION APP? .....	10
5.	HOW THE VMS APPLICATION WORKS? .....	12
6.	HOW TO CHARGE THE HUBOT? .....	14
7.	TROUBLESHOOTING GUIDE .....	16
8.	SUPPORT AND WARRANTY .....	18

# 1. READ ME FIRST

## Congratulations on your purchase of the 'Hubot'!

Please check this Part List carefully to ensure you have received all the parts.  
This hubot package includes the following items:

ITEM	QUANTITY	DESCRIPTIONS
Loomo Unit	1	Self-Balancing Robot
Tablet Unit	1	Huawei Mediapad M5
Hubot Housing	1	Outer Casing that hold Tablet unit and Loomo Unit as one
ACCESSORIES		
Power Adapter	1	58.8V, 120W
USB Type-C Cable	1	Connector between Tablet Unit and Loomo Unit

Complete the steps in Section 4, "Quick Setup and Operation Guide" to start using the 'Hubot'.

Complete the steps in Section 5, "General Maintenance Guide" for general maintenance of the 'Hubot'.

Thank you for your purchase and do contact us (see Section 6, "Support and Warranty") if you required any assistance.

### IMPORTANT

The 'Hubot' can be damaged by excessive power levels from the instruments. Please adhere strictly to the power levels recommended in the instructions.

**⚠ CAUTION:** There are movable parts when the 'Hubot' is power up. Handle with care to avoid accidental injuries.

## WARNING:

CHANGES OR MODIFICATIONS NOT EXPRESSLY APPROVED AND COULD VOID THE USER'S WARRANTY.

## 2. PRODUCT SPECIFICATIONS

### a. Hardware Specifications

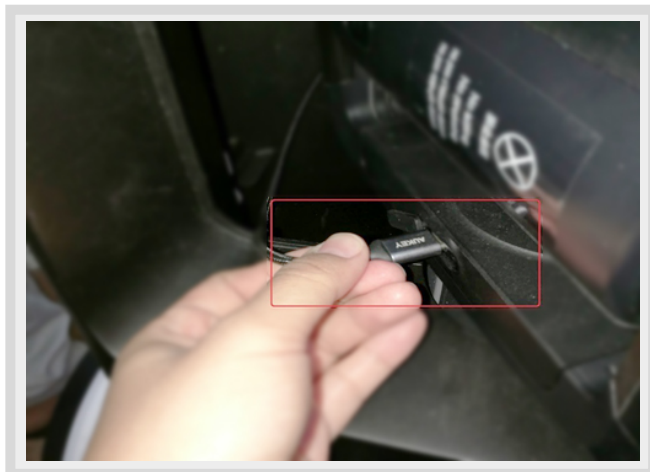
SPECIFICATIONS	DESCRIPTIONS
Movement	Traversable along pave road and sidewalks, packed dirt, slopes, obstacles (1cm), gaps (3cm)
Driving Wheels and Encoders	Two differential driving wheels, nominal power 400W x 2 with high precision hall and magnetic encoders
Camera	Front Facing Camera: 720p, HD
Input	Keyboard, Camera
Output	Voice Greeting Guidance
On Board Sensors	Ultrasonic Sensors, Voice Distance Sensors, encoders, IMUs
On Board System	Android 5.1
Connectivity	WiFi (820/b/g/n), NFC and Bluetooth
Battery Specs	Battery Capacity 6450mAh, nominal voltage 51 Vdc, maximum charging voltage 58.8 Vdc
Working Duration	8 Hours
Weight	Approx. 32kg

### 3. QUICK SETUP GUIDE



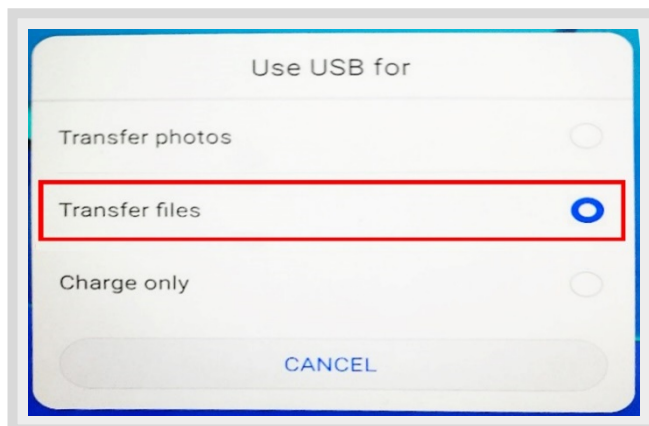
**01**

Turn on the power switch to Boot up the Hubot, the smart mobile robot.



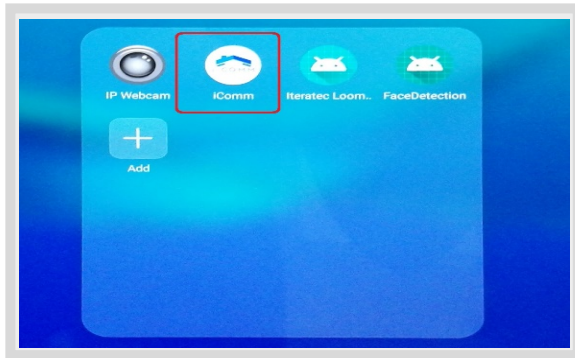
**02**

Make sure the USB Type-C cable of the Tablet is connected to the Loomo unit.



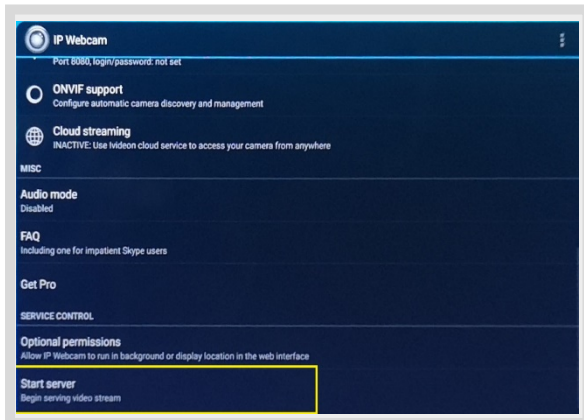
**03**

When the 'Use USB for' screen appeared in Tablet, select <Transfer files> option.



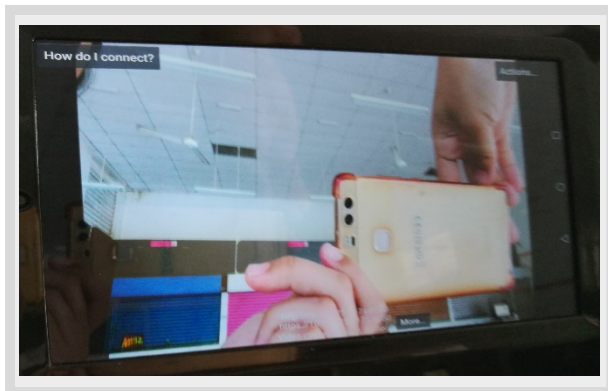
**04**

Start the **IP Webcam Pro** App in the Tablet.



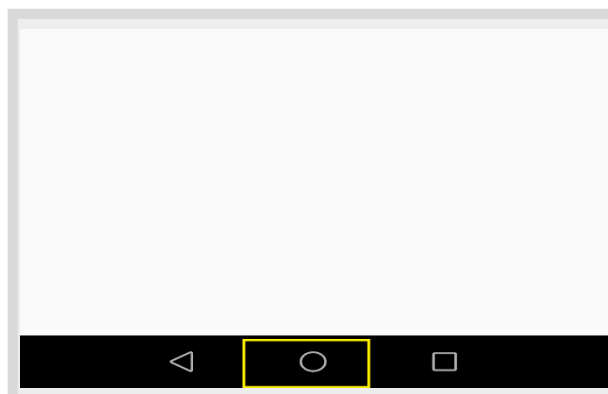
**05**

Click the <Start server> in the Tablet Module.



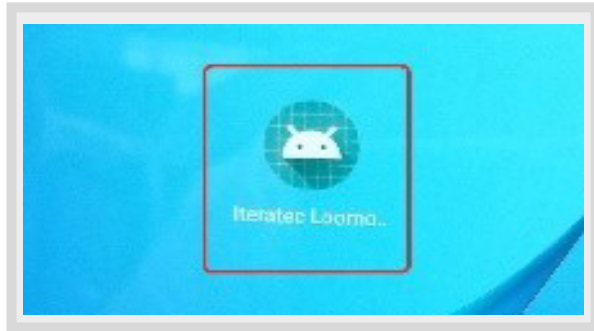
**06**

You will see the Camera in the Tablet is turned On.



**07**

Click the <Home> button to return to the Tablet's Home Page.



**08**

Open the **Iteratec Loomo** App that has been installed on the Tablet.



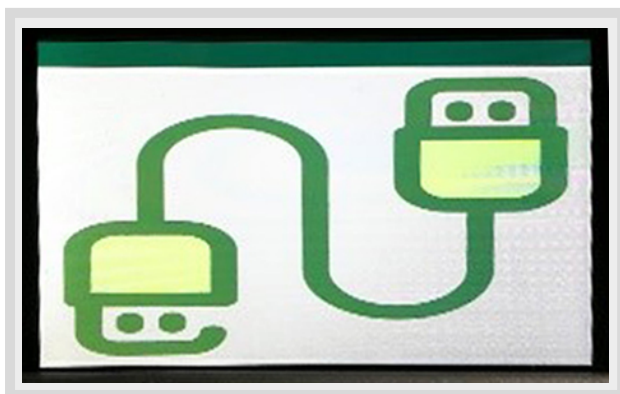
**09**

Switch on the the Hubot's transform button.



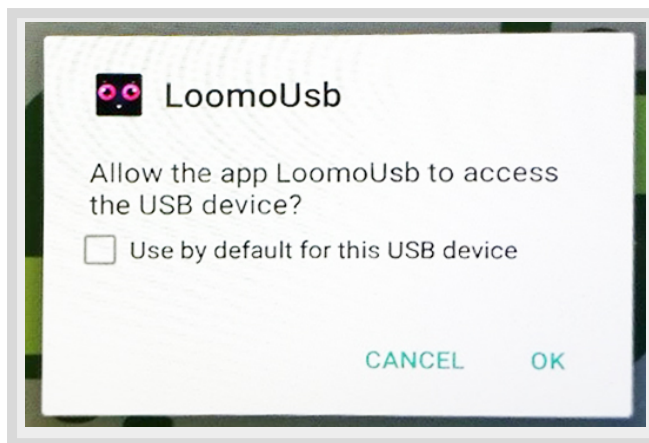
**10**

Open the **LoomoUsb** App on the Loomo unit.



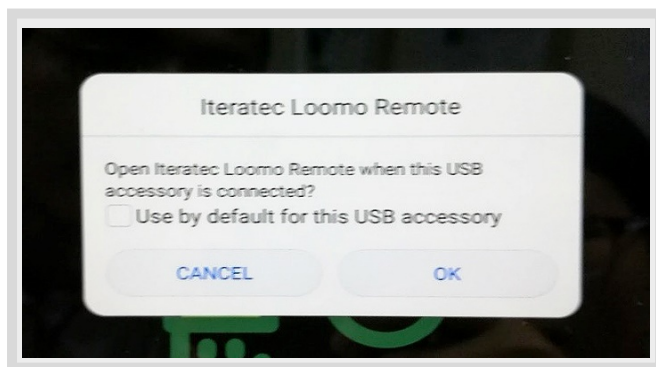
**11**

Then, wait for the USB connection icon to appear on the Loomo unit LCD screen.



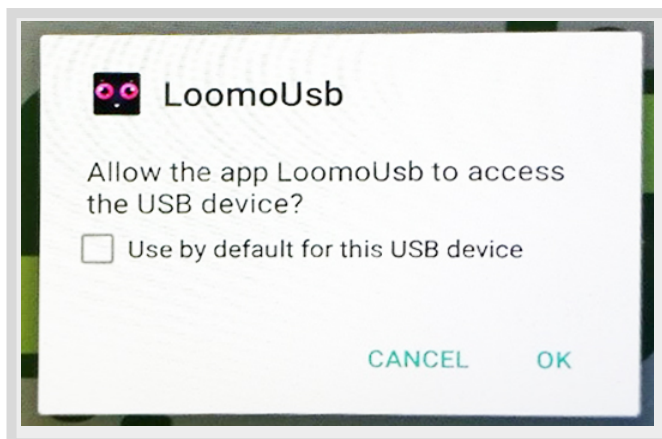
12

A message box prompt will appear at the Loomo unit LCD screen to request for access the **LoomoUsb**. Click **OK**.



13

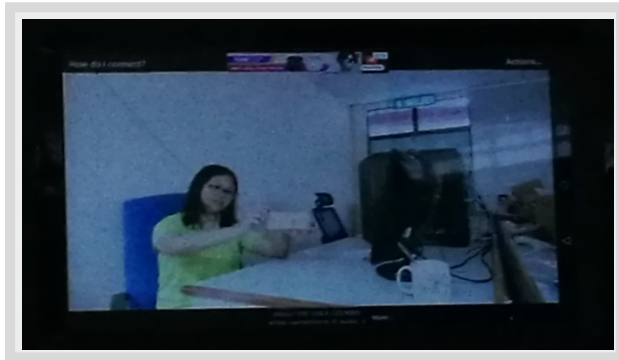
Next, 'Iteratec Loomo remote' message prompt will appear at Tablet screen. Click **OK**.



14

Next, prompt to request user to grant access for 'LoomoUsb' will re-appear again at Loomo unit. Click **OK**.





**15**

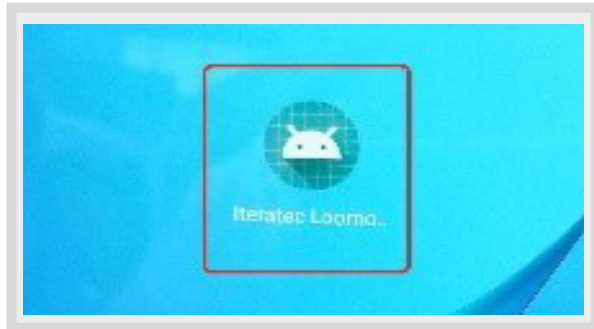
Finally, the Hubot demo App is booted up successfully.



**16**

User should be able to see an interactive eyes UI at Tablet's screen and Live captured images appear at the Loomo unit's screen.

## 4. HOW TO SETUP VISITOR RECOGNITION APP?



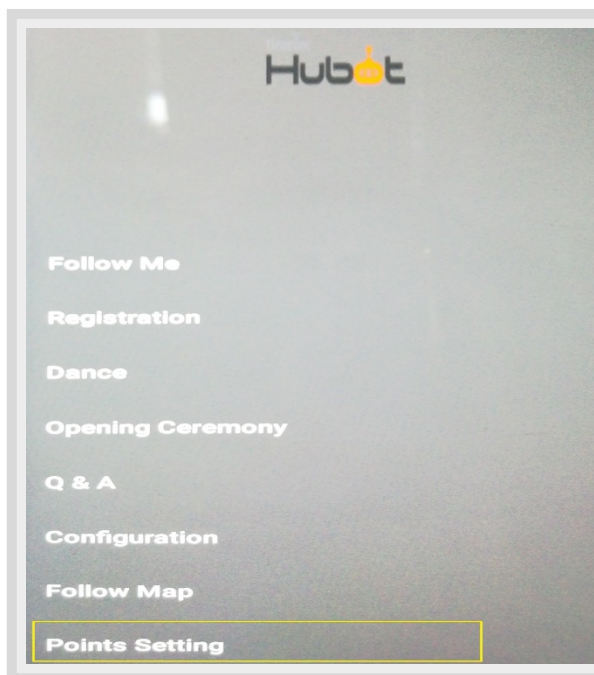
**01**

Open the **Iteratec Loomo** App that has been installed on Tablet.



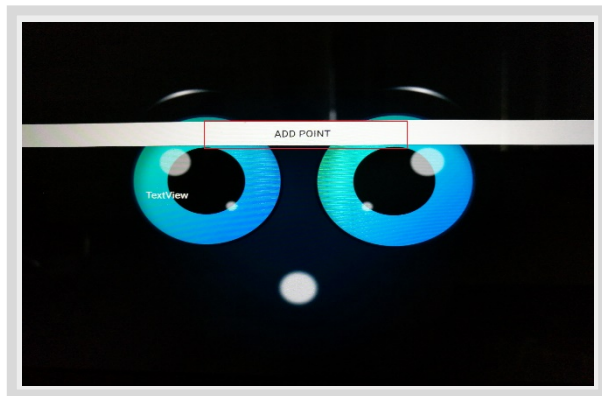
**02**

This is the Initial Page when the Loomo App is successfully loaded up.



**03**

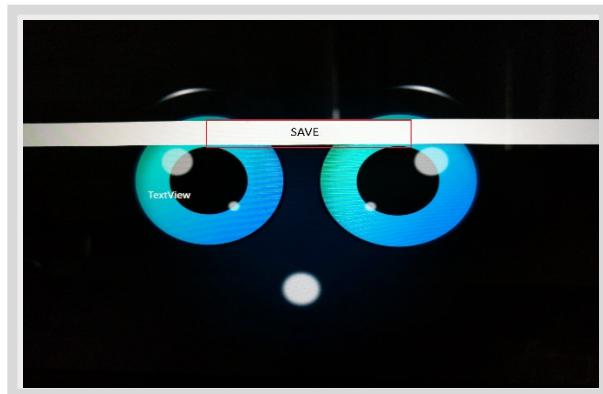
Click the <Point Setting Menu>.



## 04

Click the <Add Point> button to add 3 points:

1. Initial Starting Point
2. Visitor Greeting Point
3. Visitor Waiting Area Point



## 05

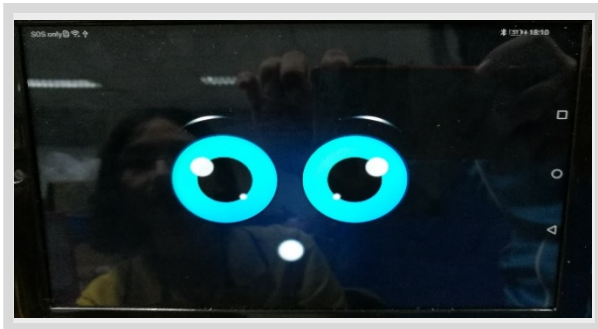
Click <Save> button to save the added Points.

## 5. HOW THE VMS APPLICATION WORKS?



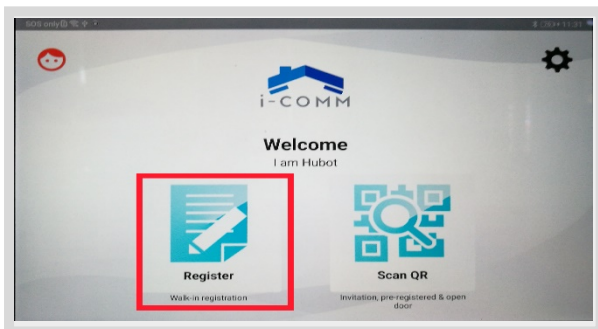
**01**

Hubot will move from the starting point to the visitor greeting area.



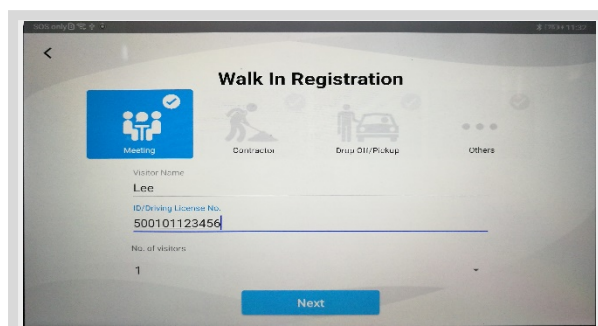
**02**

If the visitor has registered before and it recognises the visitor, it will greet the visitor.



**03**

If the visitor is a new visitor or does not register before, Hubot will pop up a visitor registration page and request the visitor to register. Visitor is required to click the <Register> button.

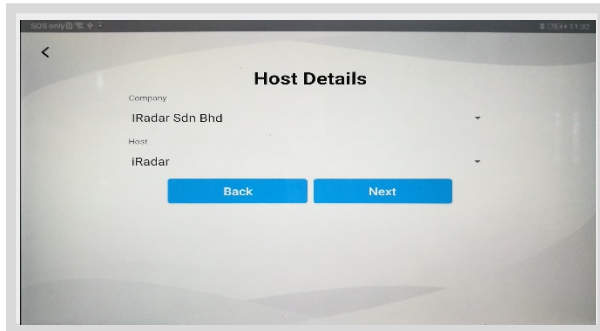


**04**

Next, Visitor information page will appear.

Visitor is required to fill in the visiting purposes, personal details and total number of visitors.

Then, click <Next>.

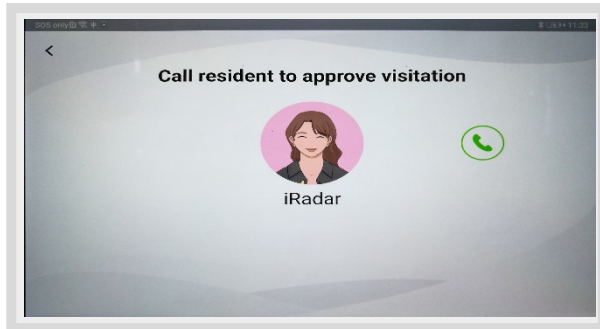


## 05

Next, <Host Details> page will appear.

Visitor is required to select the 'Host' company name and person-in-charge name.

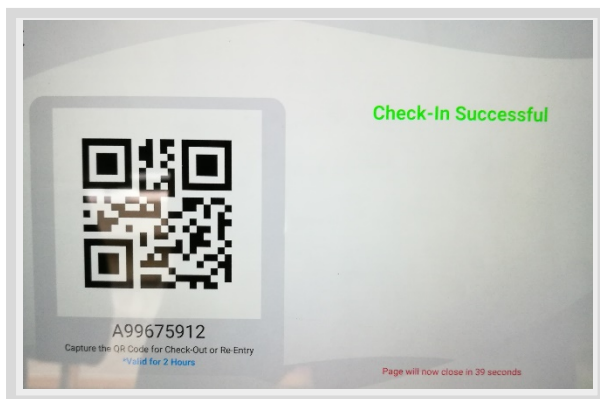
Then, click <Next>.



## 06

Visitor are allowed to call the host in order to get their visit approved.

After the visit is approved, visitor will be led to the waiting area to wait for the visitor.



## 07

After the registration is successful, it will return user a 'Check-in Successful' message and QR Code for checking out or re-entry.

Note that visitor will have to snap a picture of the QR code and keep it for the duration of their visit.

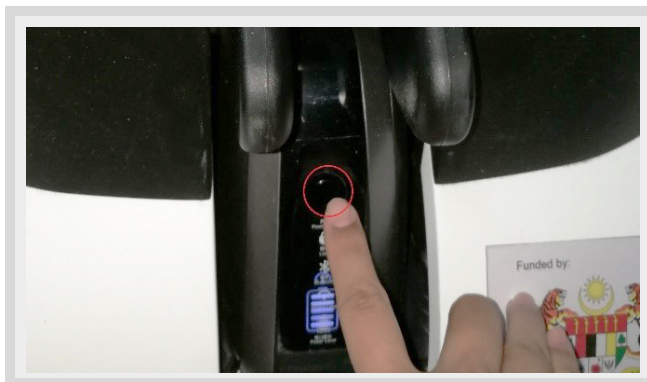
## 6. HOW TO CHARGE THE HUBOT?

With full charge, the Hubot is able to operate about 8-10 hours. It is recommended to charge the Hubot daily after use.

To charge up the Hubot, users are advised to carefully follow below steps:

**01**

Lie down the Hubot on the ground carefully.



**02**

Turn off the Hubot's power button.



**03**

Plug the charger onto the Hubot's charger port.

**04**

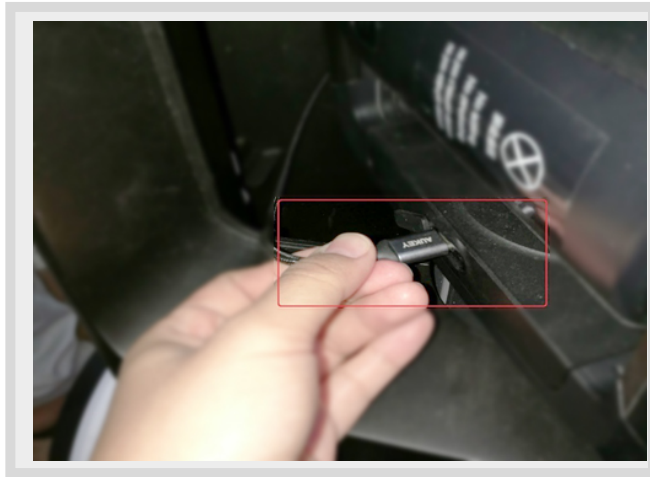
Connect the 3-pins AC power cord onto the wall plug socket.

**05**

Turn On the wall plug's switch to start charging Hubot.

**06**

When the Hubot is fully charged, switch off the wall plug switch.



## 07

To charge the Tablet, make sure the Tablet's USB Type-C cable is connected to the Loomo unit.

## 08

Turn on the Hubot's power button. It should charge the Tablet automatically.



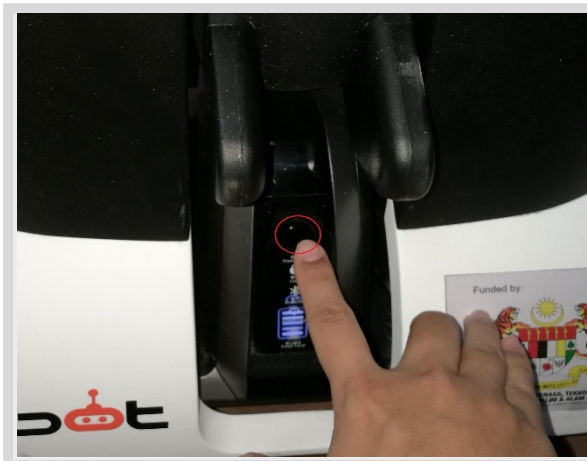
## 7. TROUBLESHOOTING GUIDE



### 01

If the Loomo unit's *blue* light does not lit up, it means the loomo unit does not startup properly.

**Solution:** Shut down all the Apps in the tablet and Loomo unit, then restart the Loomo unit and all the applications again.



### 02

If you heard continuous beeping sound, it means the Hubot is in 'low-power' mode.

**Solution:**

1. Carefully lie down the Hubot on the Ground.
2. Turn off the Hubot power button.
3. Plug the charger into the Hubot charger port.
4. Connect the 3-pins AC cord into the wall plug socket.
5. Switch On the wall plug switch to start charging
6. When the Hubot is fully charged, switch off the wall plug switch.







### 03

If the tablet is in low power mode, how to charge the Tablet?

**Solution:** Connect the Tablet USB Type-C cable\* to the Loomo unit. The Loomo unit will automatically charge up the Tablet as long as the Loomo unit is still having enough power to operate.

\*By default the cable is connected.

## 8. SUPPORT AND WARRANTY

BY USING HUBOT PRODUCT, YOU AGREE TO BE BOUND BY THE TERMS OF THE HUBOT LIMITED WARRANTY ("WARRANTY") AS SET OUT BELOW. ALL PRODUCT(S) MUST BE RETURNED IN THEIR ORIGINAL PACKAGING, TOGETHER WITH PROOF OF PURCHASE, TO THE ADDRESS SPECIFIED BY IRADAR. IT IS RECOMMENDED THAT YOU KEEP THE ORIGINAL PACKAGING FOR AT LEAST ONE (1) YEAR FROM THE DATE OF DELIVERY.

PLEASE NOTE THAT THIS WARRANTY CONTAINS A MANDATORY ARBITRATION OF DISPUTES PROVISION THAT REQUIRES THE USE OF ARBITRATION ON AN INDIVIDUAL BASIS TO RESOLVE DISPUTES IN CERTAIN CIRCUMSTANCES, RATHER THAN JURY TRIALS OR CLASS ACTION LAWSUITS.

### I. Warranty Coverage and Period of Coverage

The Hubot Limited Warranty ("Warranty") provided by iRadar Sdn Bhd, ("iRadar") is applicable to your Hubot device, including any Hubot branded accessories provided to you with such device (collectively the "Product").

The Warranty is effective upon iRadar's receipt of your payment in full for such Products.

We make no warranties, whether statutory, express or implied, regarding the Product except those expressly stated in this Warranty.

iRadar warrants the Product contained in the original packaging against defects in materials and workmanship when used normally in accordance with iRadar's published guidelines for a period of up to ONE (1) YEAR ("Warranty Period") from the delivery date of the end-user's pre-order purchase depending on the parts as specified in "Part List and Warranty Coverage". iRadar's published guidelines include but are not limited to information contained in technical specifications, user manuals and service communications. If a defect arises during the Warranty Period, iRadar, at its option will (1) repair the Product at no charge or (2) replace the Product with the same model.

Any Product that has either been repaired or replaced under this Warranty will be covered by the terms of this Warranty for the remaining time left in the original Warranty Period.

When a Product or part is replaced, any replacement item becomes your property and the replaced or refunded item becomes iRadar's property.

This Warranty extends to original purchasers only.

### II. What This Warranty Does Not Cover

1. Damage caused by modifications, alterations, tampering, disassembly, or improper maintenance or repairs;

2. Damage due to use, handling, storage, installation, or testing not in accordance with the iRadar's published guidelines including but not limited to information contained in technical specifications, user manuals and service communications;

3. Acts of God, including but not limited to lightning, flood, tornado, earthquake, or hurricane;
4. Damage caused by not using the included Hubot battery and/or charger;
5. Normal wear and tear, including cosmetic damage such as scratches, dents or chips;
6. Damages or defects to Products purchased through channels not officially authorized by iRadar;
7. Damages or defects to Products for which the valid warranty period has expired;
8. Malfunction or damage caused by abusing, misusing, or forcibly using the product beyond the normal use conditions;
9. Damages due to dismantling or repairs performed by third parties not authorized by iRadar;
10. Damages caused by adding or replacing existing parts with components or accessories not authorized or sold by iRadar;
11. Damages occurred during the shipping process due to non-compliance with the packaging and shipping requirements specified by iRadar when returning the Product for service under this Warranty;
12. Damages caused by human errors (including but not limited to letting liquid into the vehicle, tire puncture, collision, marks and damage to outer parts caused by normal use, etc.)

### **III. Your Responsibilities**

Since your Product capable to store software programs, data and other information, you should make periodic backup copies of the information contained in the storage media to protect the content and as a precaution against possible operational failures.

Before providing warranty service, iRadar may require that you furnish proof of purchase details, respond to questions designed to assist with diagnosing potential issues and follow iRadar's procedures for obtaining warranty service.

Before submitting your Product for warranty service, you should maintain a separate backup copy of the contents of its storage media, remove all personal information that you want to protect and disable all security passwords.

During warranty service it is possible that the contents of the product's storage media will be lost, replaced or reformatted.

In such an event iRadar and its agents are not responsible for any loss of software programs, data or other information contained in the storage media or any other part of the product serviced.

Following warranty service your Product or a replacement device will be returned to you as your Product was configured when originally purchased, subject to applicable updates. iRadar may install system software updates as part of warranty service that will prevent the Product from reverting to an earlier version of the system software.

You will be responsible for reinstalling all other software programs, data and information. Recovery and reinstallation of other software programs, data and information are not covered under this Warranty.

#### **IV. How to Obtain Warranty Service**

Please access and review the online help resources at iRadar Support Portal before seeking warranty service. If the Product is still not functioning properly after making use of these resources, please contact us at [support@iradar.com.my](mailto:support@iradar.com.my). iRadar customer service representatives will help determine whether your Product requires service and, if it does, will inform you how iRadar will provide it.

All Product(s) must be returned in their original packaging, together with proof of purchase, to the address specified by iRadar. Original packaging is required to ensure the protection of the Product during the transportation process and to complete returns processing, so it is recommended that you keep the original packaging for at least ONE (1) YEAR from the date of delivery. It is your responsibility to retain a copy of the shipping label with the applicable tracking number signed by an agent of the carrier, as proof that the possession of the returned product shipment was transferred to the carrier.

If your claim is determined by iRadar to be covered by this Warranty, iRadar shall bear the shipping costs associated with return of the original Product and shipment of the replacement or repaired Product to you. Any Product that is returned to iRadar without a valid warranty claim through [support@iradar.com.my](mailto:support@iradar.com.my) may be rejected, returned to you at your cost or kept for 30 days for your pick-up and then disposed of in iRadar's sole discretion.