

# **DOBOT Magician Go Desktop Robot User Guide**

Home » Dobot » DOBOT Magician Go Desktop Robot User Guide 🚡

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User Guide



#### **DISCLAIMERS**

To the maximum extent permitted by applicable law, the product described in this manual (including the hardware, software, firmware, etc.) is provided "AS IS". In the

case of failure to use or store in accordance with the instructions in this manual, defects, errors, or malfunctions may occur. DO BOT makes no warranties, whether express or implied, including without limitation, merchantability, product satisfaction, fitness for a specific purpose, or non-infringement of a third party's right; nor any compensation for special, collateral, incidental, or consequential damages resulting from the misuse of this manual or product.

When using our product, please read this user's manual and relevant guideline for technical instructions issued on DO BOT official website (www.dobot.cc) carefully and

make sure you have a proper understanding of the professional knowledge in robotics area. The operation rule or safety instruction of this manual shall not be regarded as the DO BOT product quality assurance or after-sales policy. Even if the user follows the manual instruction, there is still a risk of damage or loss while using. DOBOT strongly advises that follow this manual under the guidance of professionals. Users are responsible for complying with the applicable laws and statutory regulations and making sure that there is no substantial risk when using Do bot Magician Go.

#### **IMPORTANT SAFETY INSTRUCTIONS**

- All processes need to be monitored while running. After processes have finished, please turn off the equipment promptly.
- Be careful when carrying or installing the Magician Go. Please follow the instructions on the packing box to put down the Magician Go gently and place it correctly in direction of arrow.
- DO NOT reach into the workspace of wheels of the Magician Go while the machine is in operation, in order to avoid bruising or pinching.
- Please turn off the Magician Go completely before connecting or disconnecting external equipment, otherwise it may damage your device.
- There are built-in battery boxes, DO NOT use or place the battery boxes at high temperature, DO NOT short circuit or disintegrate the battery boxes, DO NOT put the battery boxes into water.

#### **SYMBOLS**







## **Contents** 1 1. Resource List 2 2. Product Description 2.1 2.1 Appearance Description 2.2 2.2 Indicator Status Description 2.3 2.3 Magic Box Description 2.4 2.4 Technical Specifications 3 3. Assembly Instruction 3.1 3.1 Magician Lite 3.2 3.2 Al Camera of Robotic Arm Installation 4 4.Control Mode Instruction 4.1 4.1 Remote Control Mode 4.2 4.2 Bluetooth Control Mode 4.3 4.3 Wired Control Mode 4.4 4.4 Script Control Mode **5** 5. Software Description **5.1 5.1 Dobotlab Interface Description** 5.2 5.2 Programming Description 6 6. About Map 7 7. After-sales Service Terms

#### 1. Resource List

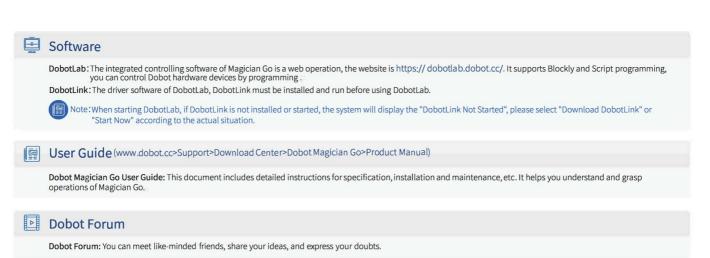
9 Related Posts

8 Documents / Resources

Resource Download Please visit <u>www.dobot.cc>Support>Download</u>

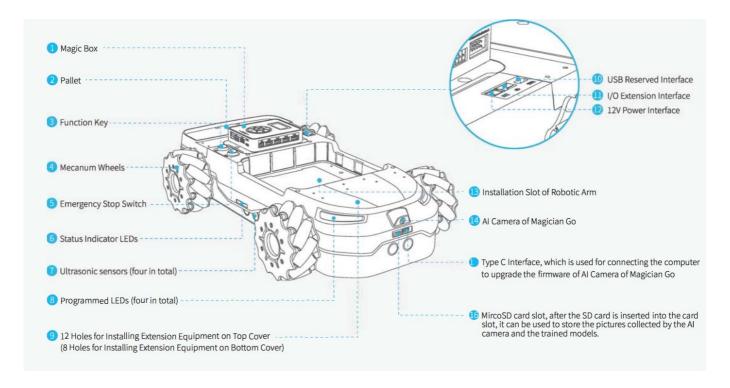


## **Software**



## 2. Product Description

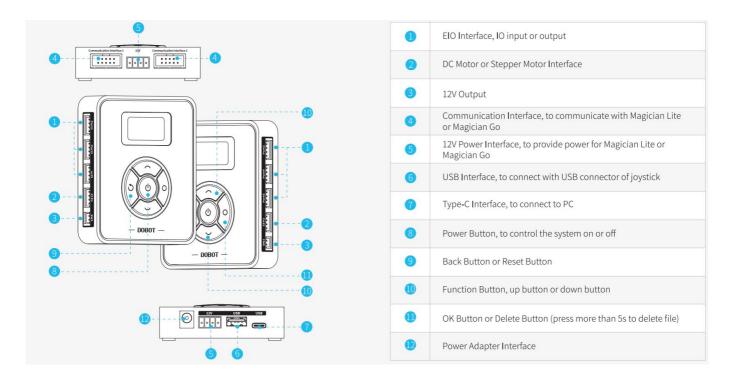
#### 2.1 Appearance Description



## 2.2 Indicator Status Description

Green	Green on: Magician Go is in Wired Control Mode (with four beeps) Green Blink: Magician Go is charging	Yellow	Yellow on: Emergency stop switch is pressed and Magician Go is locked Yellow Blink: Magician Go detects obstructions or its motor is stalled (with two beeps)	
<ul><li>Blue</li></ul>	Blue on: Magician Go is in Bluetooth Control Mode (with four beeps)	Pink	Pink On/Off: Ultrasonic sensors are on or off (with two beeps)	
<ul><li>Purple</li></ul>	Purple On: Magician Go is in Remote Control Mode (with four beeps)		RED on: Less than 5% of battery remaining power (with 10 seconds beeps continuously), and Magician Go stops moving RED Blink: Less than 10% of battery remaining power	
O White	White breath: Magician Go is in idle or Script Control Mode	RED		

#### 2.3 Magic Box Description

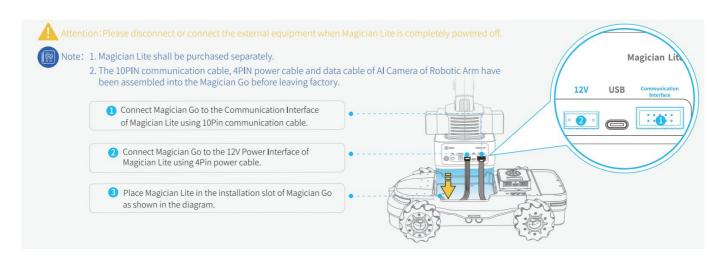


#### 2.4 Technical Specifications

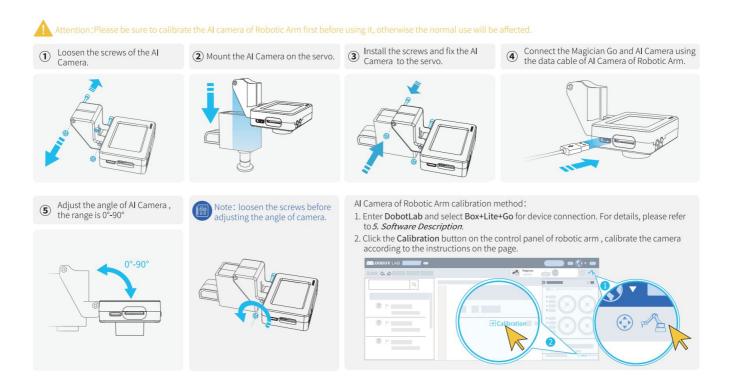
Weight	5 kg	Main Materials	ABS, PC, Aluminum alloy
Maximum Load	5 kg	Power Supply	100~240V AC, 50/60 Hz
Communication Mode	2.4GHz Remote Control, USB serial port, Bluetooth	Power In	12V DC, 5A
Control Software	DobotLab (Blockly and Python programming)	Working Temperature	0°C ~ 35°C

## 3. Assembly Instruction

#### 3.1 Magician Lite



#### 3.2 Al Camera of Robotic Arm Installation



### **4.Control Mode Instruction**

#### 4.1 Remote Control Mode



#### 4.2 Bluetooth Control Mode



Note: Click the Key button of Bluetooth Dongle, and the corresponding Magic Box will sound a beep to facilitate users to find the corresponding connected device; long press the Key button of Bluetooth Dongle, and the Bluetooth Dongle will research a Magic Box.

#### 4.3 Wired Control Mode

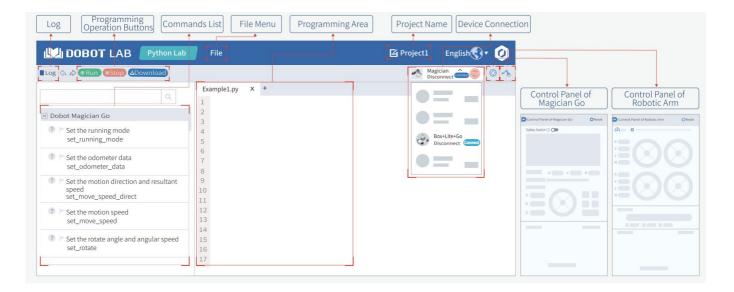


#### 4.4 Script Control Mode

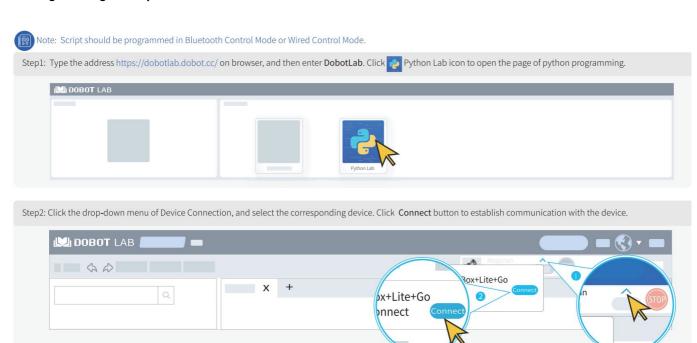
Program script demo in Robot Lab via Bluetooth Control Mode or Wired Control Mode. Then download the script demo to "Script" folder of Magic Box. Now we can control Magician Go by running script demo in Magic Box without computer connection.

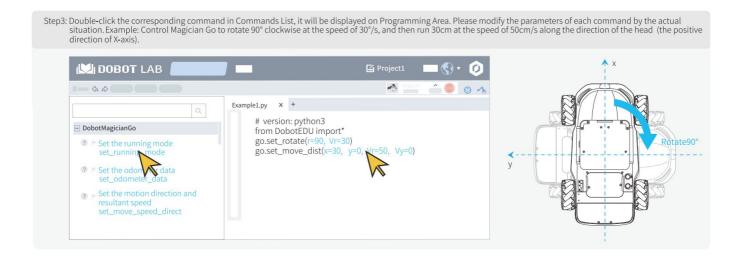
## 5. Software Description

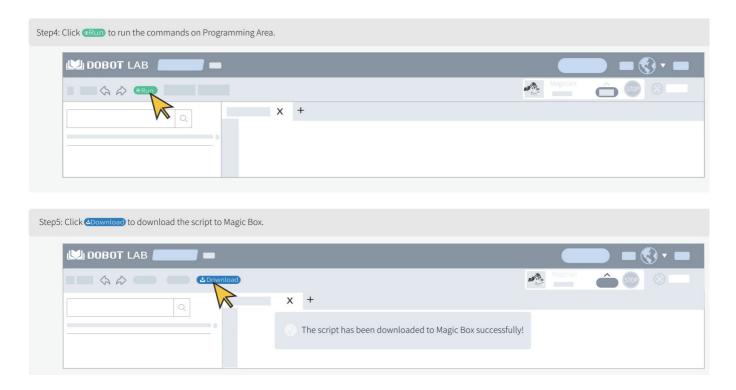
#### 5.1 Dobotlab Interface Description



#### 5.2 Programming Description







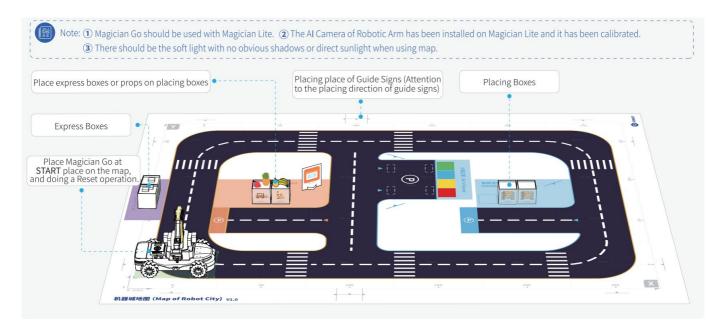
## 6. About Map

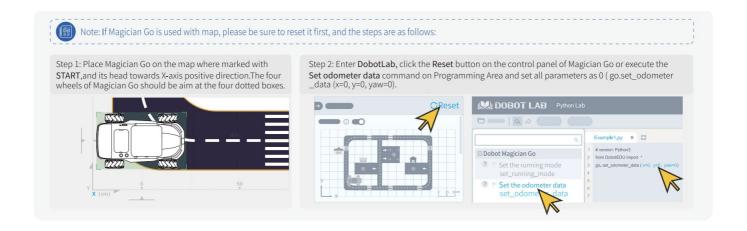
The topic of map is about the self-driving in future robot city. You can simulate various facilities and road signs of city on the map, and recognize roads and select route, sort and transport props by Magician Go.

Demo Quick Start: Demos about controlling Magician Go on the map have been built into Magic Box.

Demo: Picking Colourful Blocks (End-tool of Magician Lite is Suction Cup).

Demo2: Sorting and Transporting Props (End-tool of Magician Lite is Gripper).





#### 7. After-sales Service Terms

#### **WARRANTY REGULATIONS**

- The warranty period of machine body of this product shall be 1 year as of the date of receipt of this product by the user. Please confirm the integrity of the package at the time of signing for acceptance of the goods. Our company shall not be responsible for the problems caused by transportation.
- After opening the box, please check the items according to the shipping list. If the goods are found to be
  damaged or incomplete, please immediately contact the local agent or call the customer service hotline ( 400800-7266) or contact us via email ( support@dobot.cc.)
- If a non-artificial performance failure occurs to the goods or accessories within 7 days (inclusive, calculated from the date of receipt of the goods) upon purchase of the goods, the user can contact the customer service personnel/department for confirmation. If the problem of the product cannot be solved, the user can apply for repair or replacement of the goods or accessories, and the seller shall bear the postage; any application for repair or replacement beyond this time limit shall be considered invalid
- Consumables such as Guide Signs, Express Boxes, Props and Placing Boxes shall not be covered by the warranty service.
- These rules shall not apply to imported products or accessories, which shall be covered by the original manufacturer's warranty service.

Note: The freight for any replacement or return that meets the above conditions shall be borne by the local agent (or by DO BOT officially for mainland region), while the tariff at the destination which is required to be paid due to its policy shall be borne by the customer.

**FREE MAINTENANCE**: The free maintenance service shall be provided for the customer in the event of a non-artificial performance failure of the product that is during the warranty period and in compliance with the free maintenance clause.

#### To provide the free maintenance service, the following conditions shall be met:

- The product is normally operated within the specified warranty period and has shown a non-artificial performance failure.
- No failures caused by unauthorized maintenance, alteration, dismantling or installation, or other artificial reasons.
- The valid purchase certificate, receipt and the number thereof are provided.

## The free product maintenance service shall not be provided under any of the following circumstances:

- Damage caused by unauthorized maintenance, alteration, disassembling, opening of the shell and other acts.
- Damage caused by improper installation, use and operation that are not in accordance with the official instructions.
- Damage caused by reliability and compatibility problems due to simultaneous use of third-party parts that are not certified by our company.

#### **PAID MAINTENANCE**

- If any product failure is caused by the user or any other force majeure, the user may replace the accessory by
  himself or herself. We will make offers on accessories to the user as per the charge standards of DO BOT for
  after-sales maintenance. If the user accepts the offers, we will send the accessory to the user directly and give
  guidance on replacement after the user pays the related fees.
- When the product malfunctions and needs to be sent back to the local agent for maintenance, if the failure can
  be fixed according to judgment by the technician, the user shall be informed of the related maintenance fees in
  advance; if the user accepts the offer, after the user pays the related fees, the product will be sent back after
  properly fixed and tested, with the freights borne by the user.
- The paid maintenance service shall be provided under any of the following circumstances:
- Failures or damages that occur beyond the valid warranty period of the product.
- Circumstances not covered by the free maintenance service (for details, see circumstances not covered by the free maintenance policy).

## **SPECIAL INSTRUCTIONS**

- These warranty terms apply to customers in Chinese Mainland who purchase products through our official website only, while other warranties and supports are provided by the local agent.
- If there is a problem that cannot be solved, please timely contact the official after-sales service department. We will Analyze and solve your problem without delay.
- If there are other problems, please visit <a href="www.dobot.cc">www.dobot.cc</a> or contact the local agent.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help. The device has been evaluated to meet general RF exposure requirements. The device can be used in portable exposure conditions without restriction. FCC ID: 2AHI4-GOBT01

## **Documents / Resources**



Manuals+,