Simulation Table

LIMO

Quick Installation Guide
1. Introduction to LIMO Simulation Table

1.1 Introduction

The Limo Simulation table is an interactive simulation table used with Limo. On the Simulation table, precise autonomous positioning, SLAM mapping, route planning, autonomous obstacle avoidance, autonomous reverse stall parking, traffic light recognition, character recognition and other functions can be realized.

1.2 Component list

<table>
<thead>
<tr>
<th>Name</th>
<th>Specification</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Simulation table bottom plate</td>
<td>750 *750 *5mm</td>
<td>16</td>
</tr>
<tr>
<td>Simulation table hoarding</td>
<td>750 *200 *5mm</td>
<td>16</td>
</tr>
<tr>
<td>Simulation table buckle</td>
<td>10 L-shaped, 30 U-shaped</td>
<td>40</td>
</tr>
<tr>
<td>Model tree</td>
<td>15cm model tree with base</td>
<td>30</td>
</tr>
<tr>
<td>Traffic light</td>
<td>Dual mode traffic light</td>
<td>1</td>
</tr>
<tr>
<td>Uphill</td>
<td>Assembled uphill</td>
<td>1</td>
</tr>
<tr>
<td>Small whiteboard + recognition characters</td>
<td>Small whiteboard + EVA tile recognition characters (1 group of uppercase and lowercase letters and numbers)</td>
<td>1</td>
</tr>
<tr>
<td>Recognition characters</td>
<td>Acrylic ABCD characters</td>
<td>1</td>
</tr>
<tr>
<td>Lifting lever</td>
<td>QR code identification communication</td>
<td>1</td>
</tr>
</tbody>
</table>

1. Simulation table bottom plate

2. Simulation table

   Front

   Back

   Patterned hoarding*8

   Blank hoarding*8

3. Simulation table buckle

4. Small whiteboard + recognition characters

   L-shaped*10

   U-shaped*8

   Small whiteboard + EVA magnet

5. Traffic light

   The traffic light is divided into manual mode and automatic mode, and the switch is under the light body.

   **Manual mode**: Press the round button on the top of the light to switch the light on.

   **Automatic mode**: The red light turns yellow after 35 seconds, then the yellow light turns green after 3 seconds, and the green light changes back to red after 35 seconds. The traffic light changes in a circle, with a beeping sound.

   It’s equipped with 3 AAA batteries, which should be installed in the battery slot under the light body before use.
Uphill installation process:

1. Place the bottom plate
2. Insert the support plates
3. Cover the top cover and lock the screws at the holes

Lifting lever

QR code paste
Model transceiver
Battery charging port
Lifting lever switch
Indicator light
Type-C interface for firmware upgrade

Note: You need to plug the signal transceiver into the Limo’s USB interface to control the lifting level.

Indicator light status indication

<table>
<thead>
<tr>
<th>Color</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Red light</td>
<td>Disconnection</td>
</tr>
<tr>
<td>Green light</td>
<td>Normal connection</td>
</tr>
<tr>
<td>Blue light</td>
<td>Low voltage flashing</td>
</tr>
</tbody>
</table>

2. Steps to build a LIMO Simulation table

2.1 Build the bottom plate
Splice the bottom plate in the order of the bottom plate stickers and referring to the bottom plan; the numbered stickers are unified on the upper right corner of the back of the bottom plate.

Completed picture:

2.2 Build the perimeter

- Enclose the hoarding around the Simulation table, and fix the perimeter with L-shaped buckles and U-shaped buckles.
- The two hoardings in the middle of each side are patterned, and the other two are not patterned.
2.3 Install location recognition characters, small whiteboard, traffic light, uphill and left lever.

Paste the ABCD characters at the end of the road for the LIMO to identify the location and navigation. Place literacy boards for visual image recognition. Place a traffic light for traffic light detection. Place the lift lever, and place the QR code side in the center of the road for the LIMO camera to identify the QR code to control the lift lever.

2.4 Place model trees

Completed picture:

2.5 Installation finish

Note:
If the friction between the ground and the bottom surface of the Simulation table is small, and the movement of limo causes the displacement of the board, the tape in the accessories can be used to glue the bottom plate from the bottom to prevent displacement.
公司名称：松灵机器人（深圳）有限公司
地址：广东省深圳市南山区西丽仙洞路33号天珑大厦12楼1201

Company Name: Songling Robot (Shenzhen) Co., Ltd
Address: Room1201, Level12, Tinno Building, No.33
Xiandong Road, Nanshan District, Shenzhen, Guangdong Province, China.

sales@agilex.ai
support@agilex.ai
86-19925374409
www.agilex.ai