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MOBSYA THYMIO II

MOBSYA Thymio II Robot User Manual

Model: THYMIO II

1. OVERVIEW

The MOBSYA Thymio II is an educational robot designed to introduce users to programming and robotics in a fun and accessible way. It is a versatile tool for learning computational thinking, engineering, and creative problem-solving through hands-on interaction.



Image: The Thymio II robot, showcasing its compact design and illuminated top sensors.

2. SAFETY INFORMATION

Warning: Not suitable for children under 3 years of age. To be used under adult supervision.

- Ensure the robot is used on a flat, stable surface to prevent falls.
- Keep the robot away from water and other liquids.

- Do not attempt to disassemble or modify the robot, as this may void the warranty and cause damage.
- Use only the provided USB cable for charging and connection.

3. FEATURES

The Thymio II robot is equipped with a variety of sensors and actuators, making it a powerful tool for educational exploration:

- **Educational Tool:** An affordable educational robot designed for learning computer coding and robotics.
- **Sensors:** Includes a microphone, infrared receiver, temperature sensor, proximity sensors, a 3-axis accelerometer, and ground sensors for line following.
- **Actuators:** Features motors for movement, a speaker for sound output, and multiple LEDs for visual feedback.
- **Connectivity:** Equipped with a USB port for connection to a computer and a memory card slot for expanded functionality.
- **Compact Design:** Easy to handle and manipulate due to its small size (110x110x50 mm) and light weight.
- **Drawing Functionality:** Includes a specially designed slot to hold a pencil, allowing the robot to draw patterns and shapes.

4. PACKAGE CONTENTS

Upon unboxing your MOBSYA Thymio II, please verify that all the following items are present:

- 1 x MOBSYA Thymio II Robot
- 1 x USB Cable (for charging and data transfer)
- 1 x Quick Start Guide / Instruction Manual



Image: Contents of the Thymio II package, including the robot, USB cable, and manual.

5. SETUP

5.1 Initial Charging

Before first use, fully charge your Thymio II robot. Connect the provided USB cable to the robot's USB port and the other end to a computer or a USB wall adapter. The robot's LEDs will indicate charging status (refer to the Quick Start Guide for specific LED patterns).

5.2 Software Installation (Optional)

To unlock the full programming capabilities of Thymio II, you will need to install the Aseba software suite on your computer. This software allows you to program the robot using visual programming languages (like VPL) or text-based coding. Visit the official Thymio website (usually mentioned in the Quick Start Guide) for download links and installation instructions.

6. OPERATING INSTRUCTIONS

6.1 Basic Operation

The Thymio II has pre-programmed behaviors that can be activated by pressing buttons on its top surface. These behaviors include exploring, following lines, reacting to obstacles, and more. Consult the Quick Start Guide for a detailed explanation of each pre-programmed mode.

6.2 Programming the Robot

Using the Aseba software, you can create custom programs for your Thymio II. This involves dragging and dropping visual blocks or writing code to define how the robot reacts to its environment using its sensors and controls its actuators. Tutorials and examples are available on the official Thymio website to help you get started.

6.3 Using the Drawing Function

To use the drawing feature, insert a standard pencil into the designated slot on the robot. You can then program the robot to move in specific patterns, drawing on a surface. Ensure the pencil is securely held and the surface is suitable for drawing.



Image: Children engaging with the Thymio II robot, demonstrating its use in an educational setting.

7. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the robot's exterior. Do not use abrasive cleaners or immerse the robot in water.
- **Battery Care:** To prolong battery life, avoid fully discharging the robot frequently. Charge it regularly, even if not in use for extended periods.
- **Storage:** Store the robot in a cool, dry place away from direct sunlight and extreme temperatures.
- **Sensor Care:** Keep the sensors clean and free from dust or obstructions to ensure accurate readings.

8. TROUBLESHOOTING

- **Robot Not Responding:**
 - Ensure the robot is fully charged.
 - Try restarting the robot by pressing and holding the main button.
 - Verify that the USB cable is securely connected if programming or charging.
- **Programming Issues:**
 - Check if the Aseba software is correctly installed and updated.
 - Ensure the robot is connected to the computer and recognized by the software.
 - Review your program for any logical errors.
- **Movement Problems:**
 - Check for any obstructions around the wheels.
 - Ensure the surface is smooth and free of debris.
 - Verify that the motors are not damaged.

For more detailed troubleshooting, refer to the official Thymio II support resources online.

9. SPECIFICATIONS

Feature	Detail
Model Name	THYMIO II
Brand	MOBSYA
Dimensions (L x W x H)	11 x 11 x 4 cm (approx. 4.3 x 4.3 x 1.6 inches)
Weight	258.55 grams (approx. 0.57 lbs)
Main Material	Plastic
Color	White
Power Source	Battery Powered (internal rechargeable)
Operating Mode	Automatic, Programmable
Recommended Age	3 years and up (with adult supervision)
Self-Assembly Required	No
Remote Control Included	No

10. WARRANTY AND SUPPORT

For information regarding warranty coverage, technical support, and spare parts availability for your MOBSYA Thymio II robot, please refer to the documentation included with your purchase or visit the official MOBSYA website. You may also contact your retailer for assistance.

Official Thymio Website: www.thymio.org