

USER MANUAL

Hermit Club members:

Moreno Sardella, master degree student in computer science

Luca Fochetta, master degree student in computer science

Dimitar Anastasovski, master degree student in computer science

Lorenzo Vignati, master degree student in biomedical science

Paolo Ritter, master degree student in biomedical science

[HERMIT CLUB]

User Manual

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Congratulation on the purchase of your new “Hermit Family” product

These robots comes preprogramed and is able to move around menu and interact with the guests where is placed. We divide them in two parts, first one are the mobile “Hermits” able to move, and the other part is the static “Shell”. The communication is done throw infrared between the “Hermits” and the “Shell”.

What does the box contain?

When you order the complete package you receive one box with this items included:

- One “Shell”
- Two “Hermits”
- Custom printed menu
- Batteries
- Spare parts
- User manual

About this manual

This manual describes how to create, adjust, handle and run “Hermit family” robots. It is referring just to this kind of product. Terms and concepts related to this product are also explained.

Usage

This manual should be used when working with the products of “Hermit family”

Important safety notice

The robot is partly “completed machinery” and as such a risk assessment is required for each installation of the robot. It is particularly important that all of the safety instructions in this manual are followed.

Who should read this manual?

This manual is intended for “Hermit family” users.

How to read this manual

This manual contains instructions for installing and using the robots. This manual is intended for the integrator who is expected to have a basic level of mechanical and electrical training. It is also helpful, though not necessary, to be familiar with elementary concepts of programming. No special knowledge about robots in general or in particular is required.

Prerequisites

The reader should have basic knowledge of:

- Robot programming
- Arduino
- Assembling components

Where to find more information

The support website (git) available to all users and contains additional information such as:

- “Hermit family user manual” updates after is upgraded to a new version
- The source code for advance usage



This robot consists of several mechanical parts that need to be adjusting before running the robot. Two shells for the mobile robots and the trajectory platform (The menu).

1. Workspace of the robots

The workspace of the robot extends to (exact dimensions of the menu). The trajectory platform allows the robot to move in the predefined path. It comes in shape of a restaurant menu and should be placed on a hard and stable surface. On that surface, it is recommended to place just the robots and nothing else, in case if you want to put additional gadgets on the surface, be sure that they are at least 30cm away from the workspace of the robots. It is important to have in mind that the trajectory platform comes in the form of an ellipse.

1.1 Mounting

The trajectory platform should be placed on a hard and stable surface where the readable text faces the customers. For the shell parts, they should be mounted on the base of each robot following the instructions from the pictures.



2. IR- sensors placement

For the proper communication between the “Shell” and the mobile hermits you need to place the IR-sensors in each corner of the “Menu”. Please follow the steps provided from the pictures for proper placement and working.



3. Soap replacement

You should replace the soap for the bubble gun when you notice that the bubble gun is no longer producing bubbles. It is preferable to buy commercial soap that is meant for bubble guns but you can also make by your own. Follow the step by step instructions for how to replace the soap:



4. Battery replacement

For replacement of the batteries first step is to remove the 3D-printed shell from the robots. Gently pull up the shell and also pull up the battery connector in order to remove the battery. Battery that is included is rechargeable so if you have the original charger you can recharge and put it back. You should replace the battery in case of decreased performance of the robots. Follow the step by step guide how to do that: