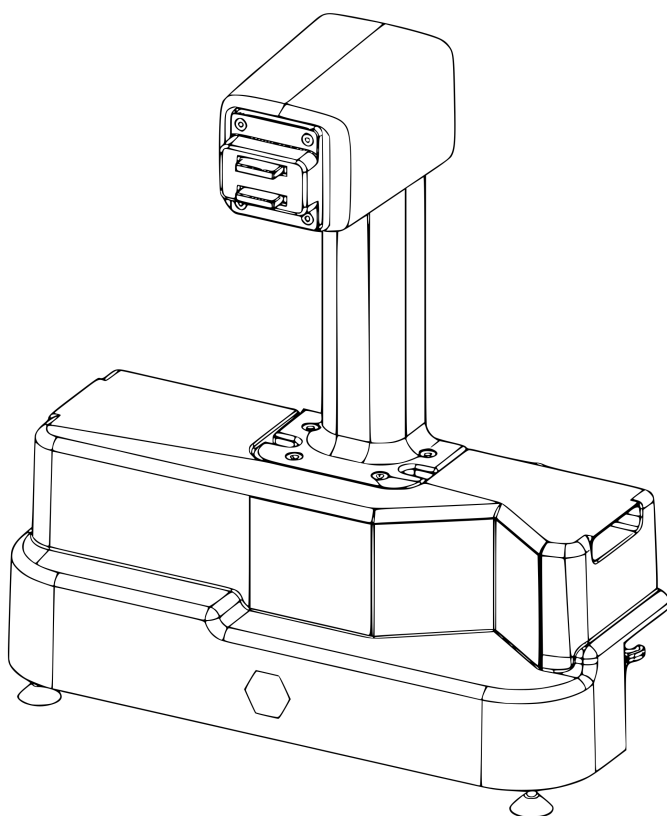




# R5 Scrub Charging Station

User Manual



WARNING: The operation of this machine is strictly reserved to trained and qualified operators.

## Original Instructions

### Document information

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### Machine Designation

Type: R5 Docking Station

(As marked on the machine nameplate)

### Intended use

- Environment: This machine is intended for indoor commercial environments (for example in ordinary locations of hotels, schools, hospitals, factories, shops, offices, and rental businesses).
- Battery charging: The station is designed to charge the integrated lithium-ion battery of the R5 Scrub only.

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# About this manual

This manual contains safety information, usage instructions, and maintenance guidelines for the LionsBot R5 Scrub charging station.

This manual does not contain:

- Instructions to create advanced maps.
- Instructions to replace components of the product.
- Advanced troubleshooting and maintenance guides.

For repair guides, component replacement instructions, and advanced maintenance guides, refer to the service manual or the online help in LionsCloud.

Keep this manual for future reference.

## Symbols

This document uses the following symbols:

| Symbol                                                                              | Meaning                                                  |
|-------------------------------------------------------------------------------------|----------------------------------------------------------|
|    | Situations that can cause injury or death                |
|   | Situations that can damage the product or other objects  |
|  | Caution: Read the instructions before using the machine. |

## Document conventions

This document uses the following conventions:

| Convention                                                                          | Meaning                                                                                      |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| Bold numbers in parentheses—for example, <b>(2)</b>                                 | Labeled elements in the section <i>Components of the R5 Scrub charging station</i> (page 5). |
| <b>Bold</b>                                                                         | Labels in the robot and names of elements on the touchscreen                                 |
|  | Essential information about the product or the task.                                         |

## Safety precautions and warnings

This manual covers common situations, but not every possible condition you might encounter. Be careful when you install, maintain, and use the R5 Scrub charging station.

To keep the warranty valid, follow all instructions in this manual.

# Safety

## WARNING

- Operators shall be adequately instructed on the use of this machine before operating it.
- Only trained and qualified operators can use this machine.
- This machine is not intended for use by persons (including children) with reduced physical, sensory, or mental capabilities, or lack of experience and knowledge.
- Supervise children to ensure they do not play with the R5 Scrub charging station.
- When using the R5 Scrub charging station, ensure others, especially children, are not in danger.
- Do not let the power cord of the R5 Scrub charging station come into contact with the rotating brushes, wheels or casters of the R5 Scrub.

## CAUTION

- Read all relevant instructions before servicing the R5 Scrub charging station.

## Use conditions and limits

### *Usage environment*

## CAUTION

- The R5 Scrub charging station is designed for use in indoor environments only.
- Use the R5 Scrub charging station in dry environments only.
- Do not use the R5 Scrub charging station in places where the temperature is above 40°C (104°F).

### Restrictions

## WARNING

Do not use flammable or volatile substances in or near the R5 Scrub charging station. Do not use the R5 Scrub charging station on or near flammable liquids.

## Transport, storage, and disposal

## CAUTION

- Store the R5 Scrub charging station indoors only.
- Use material handling equipment when lifting the R5 Scrub charging station.
- Use a team of two people to move the R5 Scrub charging station safely and prevent equipment damage.
- Before transporting the R5 Scrub charging station on a vehicle, make sure:
  - The R5 Scrub charging station is correctly packed and strapped down to the vehicle.

## Stability

### WARNING

To prevent the R5 Scrub charging station from tipping over during removal or if a stability component fails:

- If any adjustable foot or rubber stopper is damaged or missing, stop using the R5 Scrub charging station immediately and contact LionsBot.
- Do not use improvised supports for the R5 Scrub charging station.
- Before moving the station: disconnect it from the power outlet and use two people to lift from the handles.

## Power and electrical safety

### WARNING

#### • General safety

- Use the R5 Scrub charging station only to charge the R5 Scrub and its battery (model: P24067).
- Connect the R5 Scrub charging station only to a grounded power outlet. Do not use extension cords or damaged outlets.
- Do not modify the charger to fit an outlet without the ground pin.
- Do not touch the charging contacts of the robot or the R5 Scrub charging station.
- Keep the charger and docking station away from high temperatures, moisture, and humidity.
- Do not open the charger or docking station. Contact your authorized distributor for repairs.

#### • Battery charging

- Charge batteries only in well-ventilated areas, away from open flames.
- Do not smoke while charging batteries.
- The temperature range to charge the battery is 5°C to 40°C (41°F to 104°F)
- Do not use non-rechargeable batteries with the R5 Scrub.

## Emergency procedures

- **Component failure during operation:** Contact LionsBot support immediately.
- **Battery fire during charging:** Use a CO2 or ABC dry chemical fire extinguisher to put out the fire.

## About the Charging station

The charging station is an appliance that allows the robot to work with minimal human intervention by automatically charging the robot's integrated battery once the robot returns and connects to the station.

### Important

The automatic features only work if:

- You pair the station with the robot.
- You add the station to a map.

## Components of the Charging station

The following images show the location of the components of the Charging station.

1. Charging contacts (figure 1)
2. Reflective sticker (figure 1)
3. Base (figure 1)

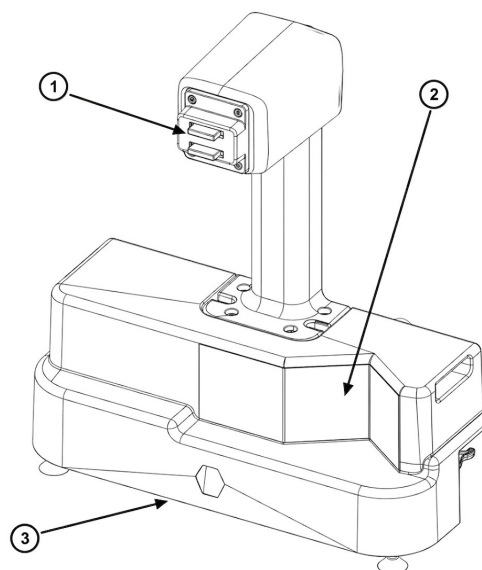


Figure 1

4. Rubber stoppers (figure 2)
5. Adjustable feet (figure 2)

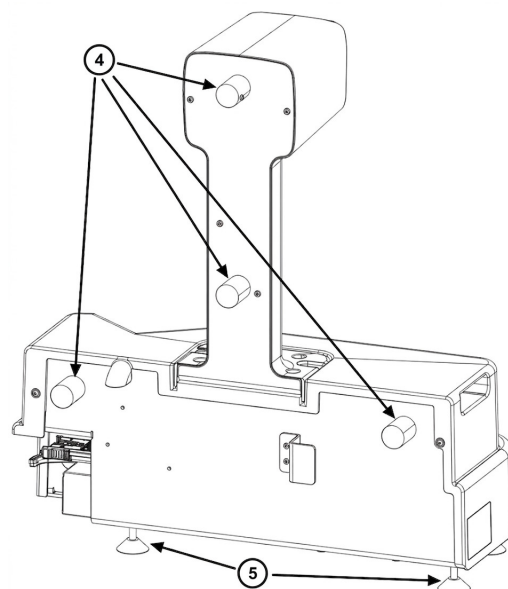


Figure 2

6. Manual charging cable (figure 3)
7. Power switch (figure 3)
8. Power cord (figure 3)

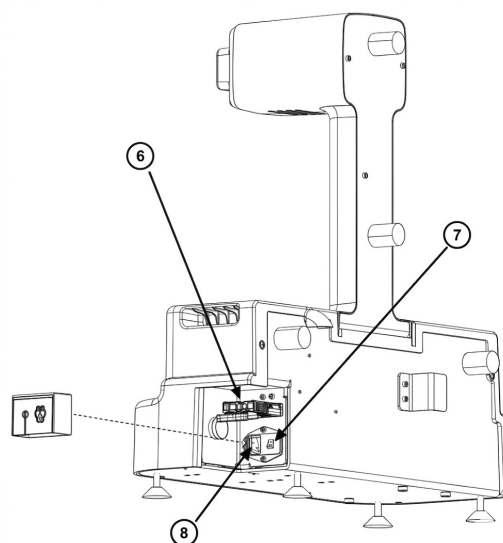
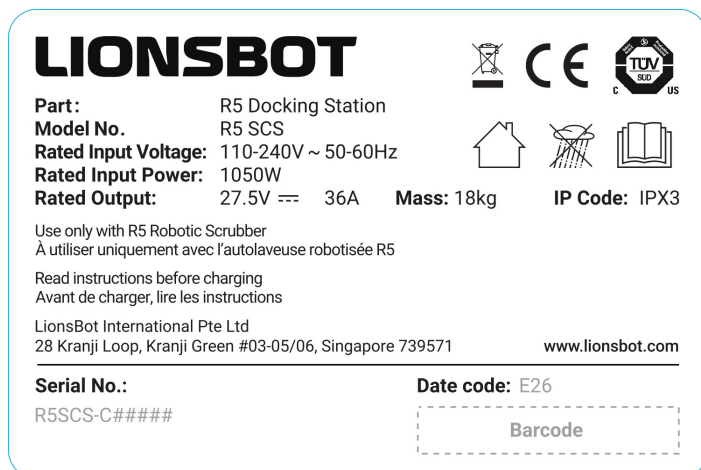


Figure 3

## Nameplate

The nameplate is on the rear right side of the Charging station. The nameplate contains essential product information, including the serial number.



The following table describes the information on the nameplate:

| Element                                                                             | Description                                                                                                                                                                                                                                                                                                    |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Model</b>                                                                        | The name of the product.                                                                                                                                                                                                                                                                                       |
| <b>Part No.</b>                                                                     | The product type.                                                                                                                                                                                                                                                                                              |
| <b>Rated Input Voltage</b>                                                          | The voltage the station requires from the electrical outlet                                                                                                                                                                                                                                                    |
| <b>Rated Input Power</b>                                                            | The maximum power consumption of the Charging station.                                                                                                                                                                                                                                                         |
| <b>Rated output</b>                                                                 | The voltage the Charging station supplies to charge the robot's battery.                                                                                                                                                                                                                                       |
| <b>Mass</b>                                                                         | The weight of the Charging station.                                                                                                                                                                                                                                                                            |
| <b>IP Code</b>                                                                      | The station's ingress protection rating.                                                                                                                                                                                                                                                                       |
| <b>Serial No.</b>                                                                   | The serial number of the product. The serial number follows this format: <ul style="list-style-type: none"> <li>First 5 characters: Part number.</li> <li>Remaining characters: Factory ID and the unit's sequential number.</li> </ul>                                                                        |
| <b>Date code</b>                                                                    | The month and year the product was manufactured. The date code follows this format: <ul style="list-style-type: none"> <li>First character: The month when the product was manufactured. A = January, B = February, and so on.</li> <li>Last two characters: The year the product was manufactured.</li> </ul> |
|  | Don't discard this product with household trash. Take it to an authorized electronics recycling facility.                                                                                                                                                                                                      |
|  | Use the Charging station indoors only.                                                                                                                                                                                                                                                                         |
|  | Use and store the product in dry conditions only. Don't expose to moisture.                                                                                                                                                                                                                                    |

## Technical specifications

| Feature           | Description |
|-------------------|-------------|
| <b>Electrical</b> |             |
| Rated input power | 1050 W      |

|                    |                            |
|--------------------|----------------------------|
| Input              | 110-240 V ~ 50/60 Hz       |
| Rated output power | 1000 W                     |
| Output             | 27.5 V $\overline{=}$ 36 A |
| Power cord length  | 3 m (9.8 ft)               |
| <b>Physical</b>    |                            |
| Length             | 60.6 cm (23.85 in)         |
| Width              | 28.6 cm (11.25 in)         |
| Height             | 66.5 cm (26.18 in)         |
| Weight             | 18 kg (39.6 lb)            |

## Install the Charging station

### Installation requirements

The location where you install the charging station also serves as the home point for the robot.

#### Important

- The following requirements are mandatory.
- Don't install or test the station in a place that doesn't meet all the requirements. The station may appear to work initially but will fail during regular use.

Select a location that meets these mandatory requirements:

- **Environment:** Away from walkways and areas where people frequently pass.
- **Floor surface:** Flat and level.
- **Power:** One grounded power outlet.
- **Clearance:**
  - Left: At least 0.5 m (20 in).
  - Right: At least 0.5 m (20 in).
  - Front: At least 1.5 m (5 ft) in front of the station.

### Unpack and position the station

#### CAUTION

Use two people to lift the station to prevent injury and damage.

1. Open the container and examine everything for damage.
2. If you find damage, call LionsBot customer service immediately.
3. Put the station against a wall. The rubber stoppers must touch the wall and the charging contacts must face the clearance area.

### Adjust and turn on the charging station

1. Move the robot in front of the station.
2. Adjust the station feet until the robot's charging contacts align with the station's charging contacts.
3. Connect the power cord to the station and to the grounded outlet.
4. If your outlet has a wall switch, turn it on.

- Turn on the charging station using the power switch **(7)**.

## What to do next

- Add the charging station to your map or create a new map with the station. For more information, see the online help in LionsCloud.

## Moving and storing the station

### Moving the station

If you need to relocate the station after installation:

- Turn off the station and unplug the power cord from the outlet.
- Move the station

### Storing the station

If you won't use the station for an extended time, store the station in a dry, warm place:

- Turn off the station and unplug the power cord from the outlet.
- Move the station to the storage room.

## Maintenance

### WARNING

- Turn off the Charging station before cleaning or maintenance.
- Do not use water or wet wipes to clean the Charging station exterior.

| Interval | Task                   | Procedure summary                        |
|----------|------------------------|------------------------------------------|
| Weekly   | Clean Charging station | Wipe exterior surfaces with a dry cloth. |

## Troubleshooting

| Problem                               | Solution                                                                                                             |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| The station has no power              | Ensure power cord is firmly connected to the outlet and station; turn on the power switch <b>(7)</b> of the station. |
| The robot can't pair with the station | Retry the pairing process.                                                                                           |
| Robot stuck at station                | Turn off the robot, unlock the safety levers, manually push the robot.                                               |

## Appendix A: Frequently asked questions

### Can I install the station with less clearance than specified?

No. All installation requirements are mandatory. Follow the requirements exactly as specified.

## Appendix B: Charging Indicator States

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| Pattern      | Meaning                 |
|--------------|-------------------------|
| Blinking red | Turned on, not charging |
| Solid red    | Charging                |
| Solid green  | Fully charged           |
| Solid yellow | Charger in error state  |



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