

# User Manual

## orin Rotating Bed



“ enjoy a new life ”

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## **A letter from StarSleep**

Thank you for choosing to purchase Orin, a product under the StarSleep brand. Orin is a high-quality product that, when used and maintained correctly, will provide you with assistance for many years to come. To ensure the maximum effectiveness of your bed, please read this manual carefully.

This also applies to anyone else, such as caregivers or family members who will be operating the bed. It is important that anyone performing maintenance or cleaning on the Orin bed understands the safety aspects.

Please pay attention to the warranty section, which includes regulations to be followed to maintain the warranty.

This manual may contain inaccuracies or printing errors. The information contained here will be regularly updated, and changes in product care and other aspects may be included in future versions without further notice.

In addition to this guide and the accident prevention regulations applicable in your country, Orin must always be used in accordance with recognized safety and professional work practices.

We hope that your new care bed will bring you more comfort, mobility, and quality of life. StarSleep will provide you with reliable service support in the future.

## Delivery and Use

Users and operators must receive professional guidance from authorized instructors.

During the installation process, it is important to ensure an adequate and safe distance between the bed and the wall to allow for free rotation of the bed. Connect the bed directly to a power outlet.

### APPLICABLE RESTRICTION

**Minimum height: 146 centimeters, Minimum weight: 40 kilograms, Minimum Body Mass Index (BMI): 17.**

When using the side rails, there is an increased risk of limbs or smaller, leaner users getting caught in the gaps between the side rails.

**Note:** Ensure that the power cord connecting the bed to the power outlet is not stretched. The cord should not be routed in any way across the bed. It is important to prevent the cord from being pinched in any location. The same applies to all other electrical devices near the bed.

**Note:** The bed should not be operated continuously beyond the working cycle time specified by the control system.

#### **Warning:**

- Ensure a safe distance is maintained between users, caregivers, or other equipment during bed operation to prevent being caught or crushed.
- When moving the bed, make sure the cord of the hand controller and the power cord do not become entangled.
- Before moving the bed, disconnect the main power cord.
- If there are any signs of damage to the power cord, replace it immediately.

Before operating this bed, please read the instruction manual. The purpose is to ensure that users have the necessary information to operate the bed and its accessories. It is recommended to keep the instruction manual in a readily accessible location for easy reference. If needed, our company can provide additional training assistance. Strictly adhere to all warnings and precautions in this manual, as failure to do so may result in harm to users or operators.

## General Warning:

- Do not use this electric bed in the presence of flammable gases.
- This product is designed for single-person use only.
- When no caregiver is present, it is recommended to position the bed at the lowest height to reduce the risk of injury in case of user falls.
- The working safe load of this bed is 170 kg, including the weight of the user, mattress, and additional accessories.
- Do not place the hand controller or power cord across the surface of the mattress. When the bed is not connected to power, secure the power cord to the bed's fixation device.
- Do not use accessories that are not specifically designed or approved for this bed, as it may compromise safety.
- Ensure the correct size and type of mattress is used.
- Before operating the bed, ensure the user is in a safe position to prevent injury. The bed casters should be in the locked position when the bed is stationary.
- When there is a potential risk of the user getting caught in the gaps of the bed platform without the presence of a caregiver, the mattress platform should be in a flat position.
- Caregivers should adjust the use of the bed and its accessories based on the user's age, body shape, and condition.
- Ensure that all other electrical product power cords and the power cable of this product do not entangle with the bed's mechanical parts.
- Before operating any function, ensure that the caregiver and user's limbs are not positioned in the gaps of the bed platform.
- Please use approved side rails and ensure that the size of the mattress is suitable for this bed.

### NOTE

**This product is designed solely for in-home use and not as a hospital bed. The product has not been tested to meet hospital standards.**

## Warranty and Product Liability

Orin is a high-quality product designed to provide trouble-free use for many years.

**Orin comes with a two-year warranty, encompassing both labor and parts (one year for the remote control), a five-year motor warranty, and a ten-year bed frame warranty.**

**Provided that the bed is purchased new and used in accordance with the instructions in this manual.**

Unless otherwise stated in the sales agreement, the warranty covers spare parts and repairs for product defects during this period.

The warranty covers problems caused by design or manufacturing defects in the bed, but only when the bed is used as instructed. Any malfunctions or defects occurring within the warranty period must be reported immediately to the dealer or manufacturer, who will determine whether to repair, replace, or dispose of the bed.

Improper use of the bed, abuse, and accidental damage are not covered by the warranty, and repair costs may be charged in such cases.

In certain cases, actions resulting in fundamental damage to the bed will render the warranty invalid for the remaining warranty period.

Events not covered by the warranty include:

- Damage caused by overloading or improper use of the bed frame.
- Damage caused by failure to clean or maintain the bed according to the instructions.
- Damage caused by lack of or improper maintenance.
- Accidental damage to the remote control, such as submerging it in liquids or running it over with a wheelchair.
- Cable damage, such as crushing due to being caught in moving parts of the bed.
- Damage to mechanical or electrical components underneath the bed due to incorrect equipment use.
- Damage to the mattress and cushions for any reason.

- Damage to walls or adjacent furniture due to improper bed placement.
- Damage to power outlets for any reason.
- Damage caused by improper opening or use of electrical components.

The bed is designed and tested to carry the specified maximum weight. The maximum user weight and load label are described in the manual and must not be exceeded.

These are some examples, and therefore, this list should not be understood as including all situations. Any malfunctions or defects occurring within the warranty period must be reported immediately to the dealer or manufacturer, who will determine whether to repair, replace, or dispose of the bed.

For warranty, service, any other inquiries, or to learn more about our products, please contact us.

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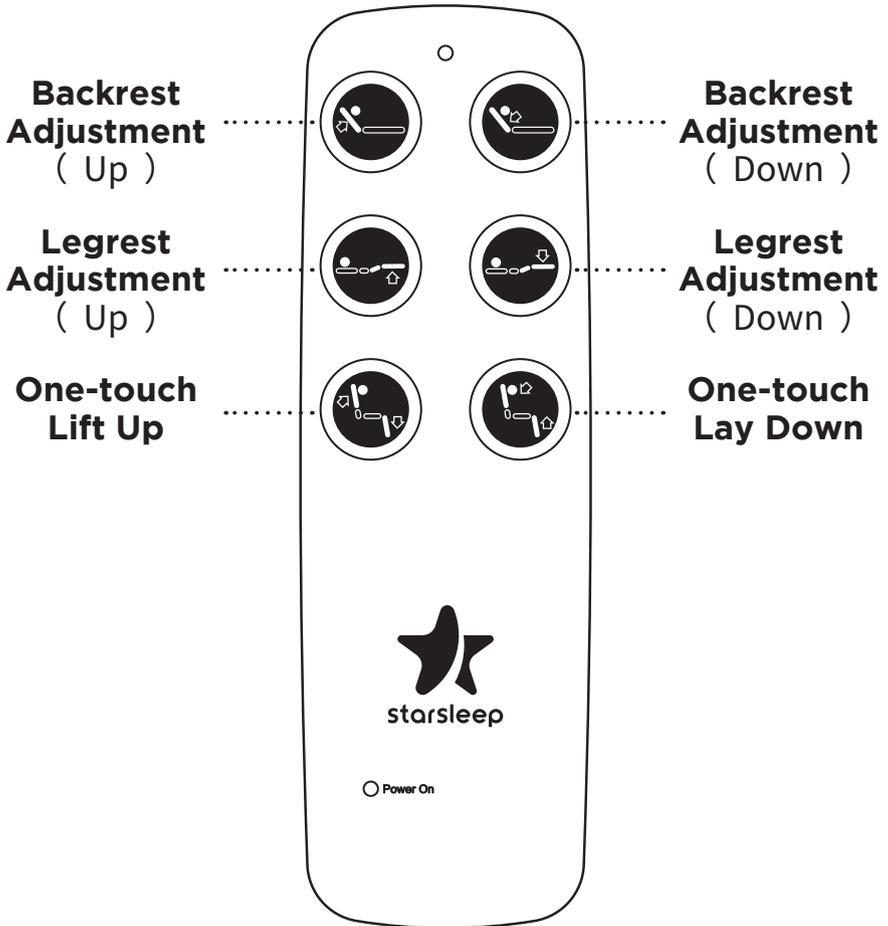
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## Instructions for Use and Operation



StarSleep Orin bed's control is operated manually through a wired controller. The first two rows of buttons are designed for manual control, while the third row is for program control. Manual mode is disabled during rotation motion. In this mode, program control should continue until manual control is reactivated before or after the rotation motion. For safety reasons, only one function can be controlled at a time.

## Backrest Adjustment

You can adjust the tilt of the backrest using the up/down buttons based on the user's condition or preference. The backrest can be raised up to 87°.

### Activation

- Press and hold the backrest adjustment (up) button to raise the backrest.
- Release the button when the backrest reaches the desired height.
- Similarly, use the backrest adjustment (down) button to lower the backrest.
- Release the button when it reaches the desired height.

**Note:** The bed should not be operated continuously beyond the working cycle time specified by the control system.

**Warning:** The backrest and legrest can be at their maximum angles simultaneously. However, having both at maximum angles may cause user discomfort. When using the button controls, the backrest and legrest will not be at their maximum angles (the necessity of vertical backrest support is to assist in getting out of bed while sitting).

## Legrest Adjustment

Similar to the backrest, the tilt angle of the legrest can be individually adjusted within a range of 0-35°. The legrest slightly bends at the knees, so the lower leg area is slightly raised compared to the horizontal position.

### Activation

Press and hold the legrest adjustment button until the desired height is reached. Similarly, use the legrest adjustment button to lower the legrest.

**Warning:** If using this feature, do not secure anything or apply pressure to the user's ankles as it may cause harm.

**Warning:** Ensure that there are no devices or similar accessories on the footrest during adjustments, as this may cause damage to them.

## One touch Lift up/Lay down

StarSleep Orin bed allows users to easily get out of bed and assists caregivers in smoothly adjusting users to a sitting position. This makes it easy for users to transfer on the bed and facilitates transfers onto the caregiver's back. This feature also makes it easier for users to lie down.

### One-touch Lift Up

- Press and hold the "Get up" program button.
- The leg support will first rise to its highest position, followed by the backrest tilting up to 30°.
- Now, you can rotate 90° to the left or right.
- After the rotation movement, the foot support will lower, placing it in a horizontal position, while the backrest lifts up until reaching an upright sitting position.
- Move the lower legs slightly backward in a vertical direction, allowing the user to move their legs backward.
- Now, the user should lean the upper part of their body forward towards their feet, shifting their weight onto their feet as they would when getting up from a regular bed.
- If assistance is needed, the caregiver should use their feet to support the user's feet forward and support the user's knees with their own knees, guiding the user's upper body with their hands.
- This way, the user can stand up without requiring any external force to lift them and without the user exerting their own strength to get up.
- If additional support is needed for getting up, the user can use the side handrails.

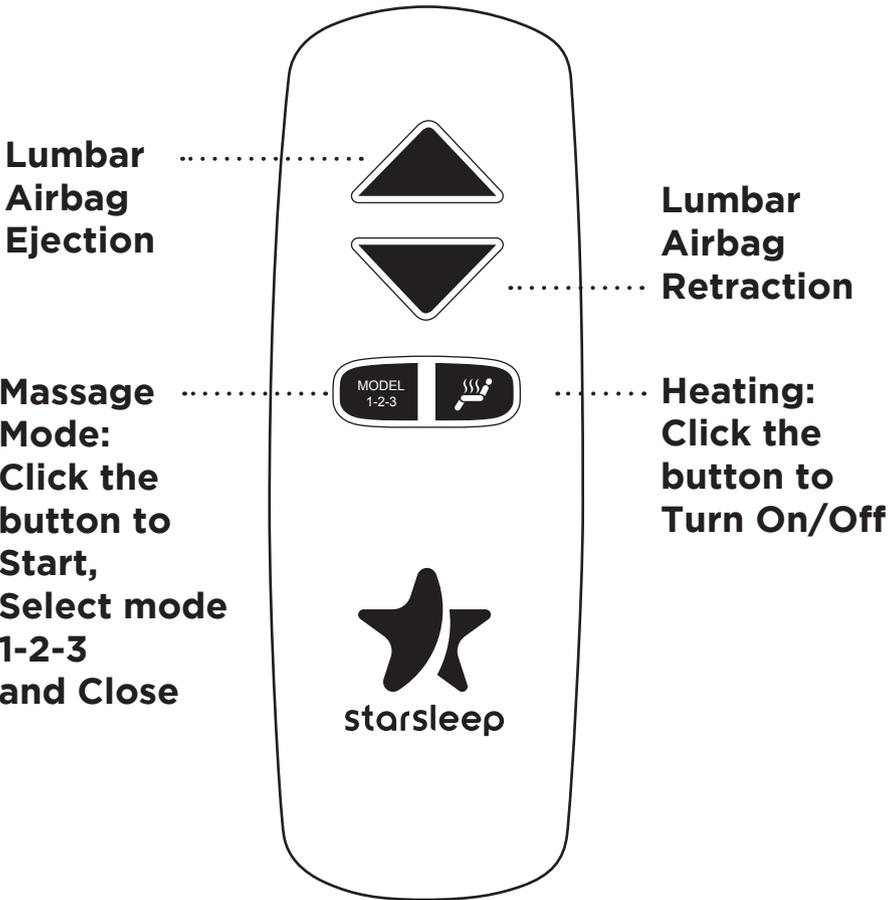
**Note:** During the rotation movement, for safety reasons, all other functions are locked. Using the manual control buttons, you can operate any movement other than the program buttons.

## One-touch Lay Down

- In principle, the lying down process is the opposite of the getting up process.
- The user stands with their back to the bed, placing their feet as close to the mattress as possible. (This is crucial for achieving the correct lying position on the bed later, so you won't need to readjust the user's lying position again).
- Now, the user can sit on the mattress and try to get their lower back as close to the backrest as possible.
- Press and hold the "Lie down" program button.
- Now, the leg support will rise while the backrest lowers to 30° until the user ensures they are lying in the groove position again. (The leg support is at its highest position, and the backrest is lowered to approximately 30°-35°).
- Now, manually rotate the bed surface 90°.

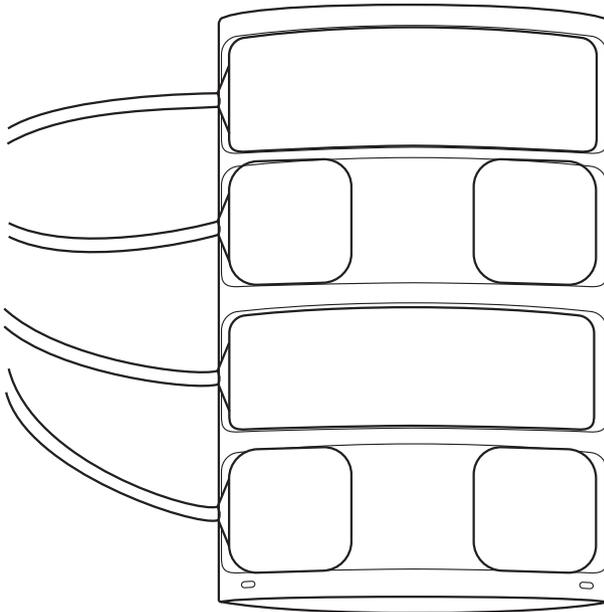
## Air Bag Massage and Heating Pad

The massage, lumbar support, and heating functions of the StarSleep Orin bed are manually operated through a wired controller.



### Air-Bag Massage

The massage airbags consist of four independently controllable airbags that are installed inside the mattress for use. Three massage modes can be achieved by inflating and deflating the airbags. The waist airbags can also function as lumbar support. If there is no operation, the airbags will automatically stop running after 45 minutes.



▲  
Air-Bag Massage

### Heating Pad

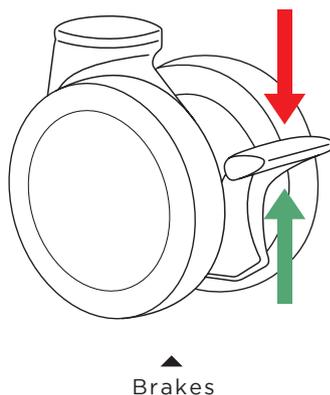
The heating function is provided by a 29V heating pad. If left unattended, the heating pad will automatically stop after running continuously for 60 minutes.

## Brakes (Optional)

By default, the Orin bed does not come with casters. If you require casters, please contact your local dealer for further information and assistance.

To lock the brakes, press the brake lever on the casters downward until it clicks into place. (Direction indicated by the red arrow).

To release the brakes, lift the brake lever on the casters with your toe until it is raised upward. (Direction indicated by the green arrow).



**WARNING:** Before any transportation, ensure that the power plug is disconnected from the socket and the switch-mode power unit is secured to the bed to prevent cables from falling or dragging on the floor.

Always engage the brakes when the bed needs to be parked. Similarly, the brakes must be engaged when transferring the user. Failure to do so may result in personal injury and damage to property.

**WARNING:** To prevent tripping hazards, always position the wheels inwards so that they do not protrude beyond the bed frame.

**WARNING:** For your own and the user's safety, always wear appropriate footwear when moving the bed or operating the brakes.

For information regarding accessories and other resources, please contact your dealer or reach out to Starsleep.

Use only manufacturer-approved accessories. The manufacturer cannot be held responsible for any issues that arise from the use of non-approved accessories.

## Side Rails

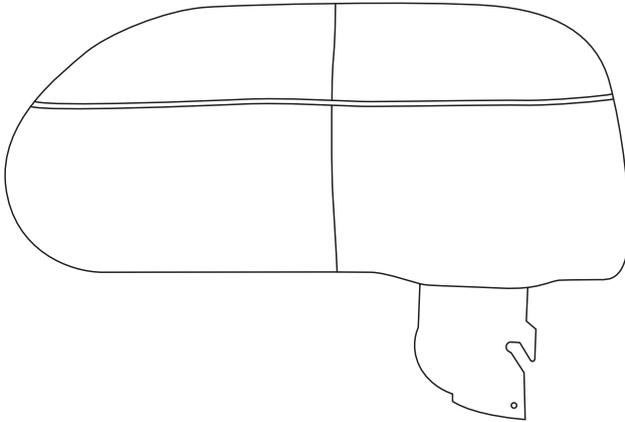
The side rails on both sides are primarily designed for safety, preventing the user from falling out of bed. Additionally, they can be used as handrails for getting in and out of bed.

Inserting the side rail:

Hold the side rail vertically and insert the bottom end into the bracket on the side of the bed at a 45° angle until you encounter resistance. Now, tilt the side rail toward the base until it clicks into place. Gently pull up on the side rail to ensure it is securely locked in place. The side rail is now fixed in position.

Removing the side rail:

On the side near the foot end, grip the handle of the bracket and push the protruding button inward. Now, tilt the side rail 90° towards the front end. You can either keep the side rail in this position or completely remove it.



▲  
Side Rails

## Cleaning and Maintenance

All surfaces can be cleaned using a soft damp cloth and mild detergent.

Wipe with a cloth dampened with water and then dry.

Ensure that all components on the bed are dry before placing the mattress back.

**Warning:** Unplug the power cord before cleaning. Take care to prevent moisture damage.

## Spare Parts and Accessories

Please use our company's dedicated spare parts and materials, such as bed head/footboards, control box, push rods, and wires.

The use of other accessories or materials may compromise minimum safety standards. The manufacturer cannot be held responsible if non-approved accessories are used. For information regarding accessories, please contact your purchasing dealer or StarSleep.

## Transportation and Storage

The following environmental conditions must be adhered to:

Storage Temperature: Minimum 5°C, Maximum 50°C

Relative Humidity: Minimum 20%, Maximum 80%

Operating Temperature: Range of 0°C-40°C

Relative Humidity: Minimum 20%, Maximum 80%

(Non-condensing)

When storing this bed or during long periods of non-use, the battery system on the bed requires periodic maintenance as outlined in the table below:

| Storage Temperature | Frequency                      |
|---------------------|--------------------------------|
| 20° C or below      | Charge 24 hours every 9 months |
| 20 to 30° C         | Charge 24 hours every 6 months |
| 30 to 40° C         | Charge 24 hours every 3 months |

**Warning:**

When operating the care bed, no one, especially children or pets, should be under or inside the bed frame. Do not use the free space under the care bed to store tools.

- Do not sit on the leg rest or add any additional weight when the bed is rotated in the 90° position.
- Do not allow children to play on or unsupervised near the product.
- Do not place multiple power sockets under the bed. Liquids entering the sockets may cause a fire.
- Damage to the main power or motor cables can pose a danger to the user and caregivers' lives.
- Regularly check the entire cable for twists, insulation damage (cuts, abrasions, visible internal conductors - blue, brown, black, green, yellow, color changes in insulation material).
- Ensure that the wiring of equipment cables and wires placed on the bed is not trapped, compressed, or damaged by moving parts of the bed.
- If the power cord and motor cables are damaged, unplug the power plug and have them repaired by authorized service personnel.
- For incontinent individuals, use incontinence bed pads.
- If the care bed is unattended, place the bed at the lowest position to reduce the risk of injury from falls during bed exit or lying down.

## Troubleshooting

If the Orin care bed is not functioning, please assess the symptoms and possible solutions provided in the chart below. Depending on its model, the Orin care bed is equipped with an internal or external switch-mode power unit. This power device has two internal automatic fuses. If the control panel or cable remote control unit malfunctions, the device will automatically stop.

In such cases, a so-called reset is required to restart the bed. To do this, simultaneously press and hold the One-Touch Up and One-Touch Down buttons for approximately 5 seconds.

All motors are equipped with overload protection switches and separate limit switches. If a motor exceeds continuous loading for more than 2 minutes, the actuator motor will automatically shut off. A restart must then be performed.

Additionally, the reclining position can be reset using the battery-powered emergency power supply.

If a malfunction occurs, please contact the dealer or StarSleep from whom you made the purchase.

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| Issue   | Possible Causes  | Solution  |
|---|--|---|
| No response when pressing the manual button               | Loose power cord, Faulty emergency stop position   | Check if the power cord is securely plugged in<br>Disconnect the emergency stop position for 1 minute, then reconnect it. |
| 2 beeps after reset                                       | At least 1 motor malfunction   | Contact customer service  |
| 3 beeps after reset                                       | At least one microswitch/sensitive switch malfunction                                    | Contact customer service  |
| Continuous beeping for approximately 30 seconds           | Power interruption   | Check the power plug or contact customer service  |
| Continuous buzzing sound                                  | Continuous overload causing safety cut-off   | Contact customer service  |
| Inoperable or unidirectional movement of 1 actuator motor | Actuator motor, manual switch, connector, or wire malfunction                            | Check the connector and contact customer service  |
| Unable to restart   | Power connector not properly inserted, outlet has no voltage, faulty power switch device | Connect the power plug, check the power outlet or fuse box, contact customer service                                      |



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