

Hilitand Hilitandf7kipnw4s9

Hilitand 50A DC 24V Electric Wheelchair Joystick Controller User Manual

Model: Hilitandf7kipnw4s9

1. INTRODUCTION

This manual provides essential information for the safe and effective use of your Hilitand 50A DC 24V Electric Wheelchair Joystick Controller. Please read this manual thoroughly before installation and operation to ensure proper function and to prevent damage or injury. This controller is designed to provide precise speed and direction control for electric wheelchairs and similar mobility devices.

2. SAFETY GUIDELINES

- Always ensure the controller is securely mounted before use.
- Do not expose the controller to excessive moisture or extreme temperatures.
- Regularly inspect cables and connectors for any signs of wear or damage.
- Disconnect power before performing any maintenance or installation procedures.
- Operate the wheelchair at a safe speed, especially in crowded areas or on uneven terrain.
- Familiarize yourself with all control functions before operating the wheelchair independently.

3. PRODUCT FEATURES

The Hilitand Electric Wheelchair Joystick Controller offers advanced features for enhanced mobility:

- **Wide Compatibility:** Suitable for various electric wheelchairs, intelligent robots, and mobile platforms.
- **Stable Performance:** Constructed from premium ABS material for reliable and consistent operation.
- **Precise Control:** Ensures stable startup, high sensitivity, and flexible control over speed and direction.
- **Multiple Functions:** Includes capabilities for slope parking, anti-sliding, speed adjustment, short circuit protection, and battery output management.

- **Smart Operation:** Utilizes a smart control algorithm and AI intelligent control system for dependable performance.

4. PRODUCT OVERVIEW AND CONTROLS

The controller features an intuitive design for ease of use. Refer to the diagram below for an overview of its components and controls.

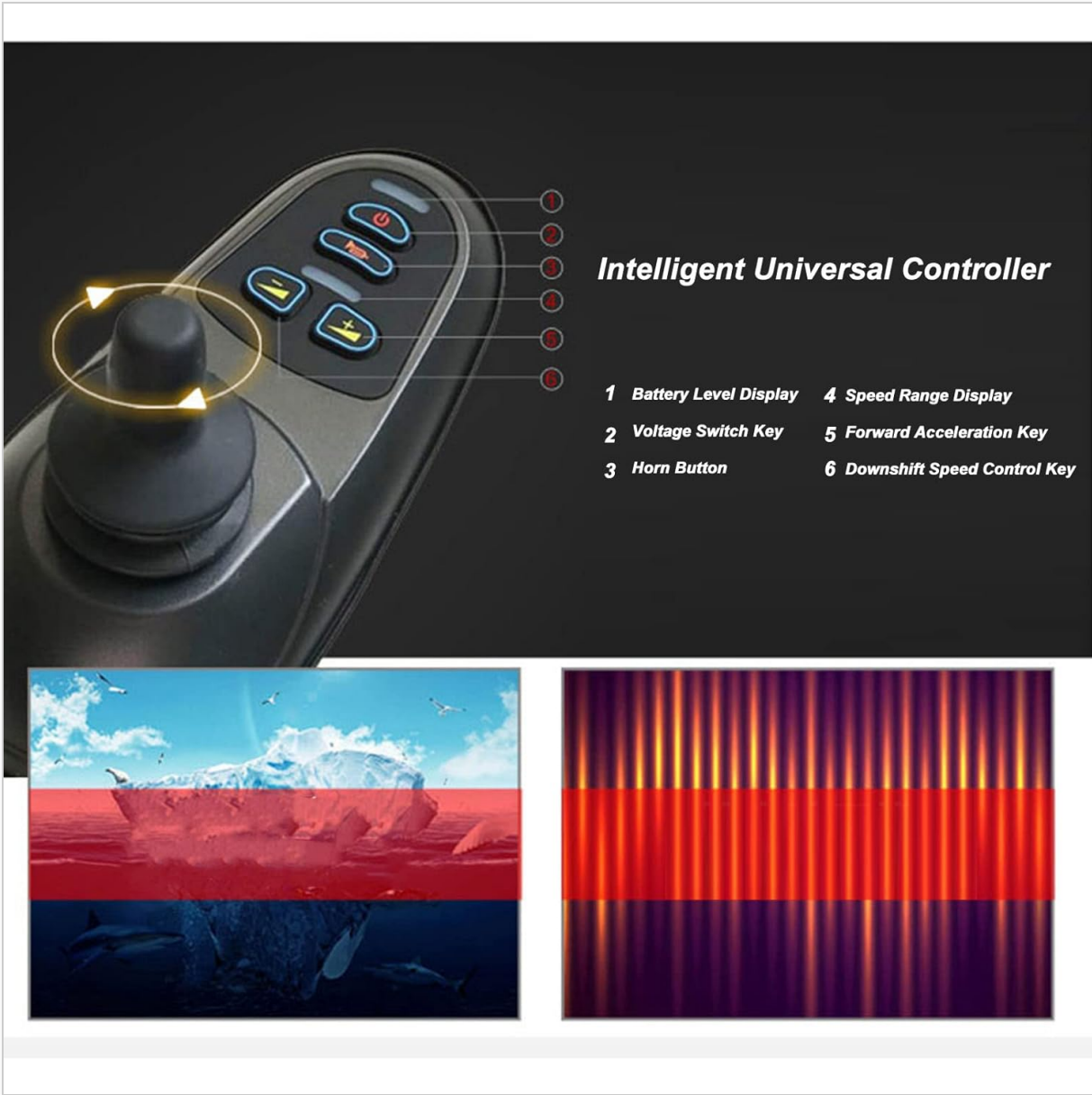


Image: Detailed view of the Hilitand Electric Wheelchair Joystick Controller, highlighting the joystick and control buttons. Labels indicate Battery Level Display, Voltage Switch Key, Horn Button, Speed Range Display, Forward Acceleration Key, and Downshift Speed Control Key.

1. **Joystick:** Controls the direction and speed of the wheelchair. Pushing forward, backward, left, or right will move the wheelchair in the corresponding direction. The further the joystick is pushed, the faster the wheelchair will move.
2. **Battery Level Display:** Indicates the current battery charge level.
3. **Voltage Switch Key:** Used to power on or off the controller.
4. **Horn Button:** Activates the wheelchair's horn.
5. **Speed Range Display:** Shows the current speed setting or range.
6. **Forward Acceleration Key (+):** Increases the speed setting.

7. **Downshift Speed Control Key (-):** Decreases the speed setting.



Electric Wheelchair Controller
Used to control speed and direction

***Stable startup, flexible control,
high sensitivity***



Image: A person seated in an electric wheelchair, using the Hilitand joystick controller to navigate. The image emphasizes the controller's role in providing precise control.

5. SETUP AND INSTALLATION

Proper installation is crucial for the safe and reliable operation of your electric wheelchair. Follow these steps carefully:

1. **Power Off:** Ensure the wheelchair's power is completely off before beginning installation.
2. **Mounting:** Securely mount the joystick controller to the designated armrest or control panel of the electric wheelchair. Use appropriate fasteners to prevent movement during operation.
3. **Cable Connection:** Connect the controller's cables to the corresponding ports on the wheelchair's motor and battery system. Pay close attention to the color coding and connector types to ensure correct polarity and function. The controller typically uses standard connectors for power and signal.
4. **Secure Cables:** Route and secure all cables to prevent them from getting tangled or damaged during use.
5. **Initial Check:** After connecting, perform a visual inspection to confirm all connections are firm and correct.



Image: The Hilitand joystick controller shown alongside its various connection cables, with an electric wheelchair visible in the background, illustrating the components involved in setup.



Image: The Hilitand joystick controller and its cables, with a person in an electric wheelchair in the background, demonstrating the practical application of the controller's connections.

6. OPERATING INSTRUCTIONS

Once installed, operate the controller as follows:

1. **Power On:** Press the Voltage Switch Key to turn on the controller. The Battery Level Display will illuminate, indicating the current charge.
2. **Adjust Speed:** Use the Forward Acceleration Key (+) to increase the maximum speed setting and the Downshift Speed Control Key (-) to decrease it. The Speed Range Display will show the selected setting.
3. **Direction and Movement:** Gently push the joystick in the desired direction (forward, backward, left, right). The wheelchair will move accordingly. The further you push the joystick, the faster the wheelchair will accelerate up to the set speed limit.
4. **Stopping:** Release the joystick to its neutral position. The wheelchair will automatically brake and come to a stop.
5. **Horn:** Press the Horn Button to alert others.
6. **Slope Parking:** The controller is equipped with a slope parking function to prevent unintended rolling on inclines.



***Strong power, fast starting speed,
strong climbing ability***



Dirt Road



Stone Road



Deceleration Zone



Climbing Slope

Image: An electric wheelchair equipped with the Hilitand controller, illustrating its ability to handle different terrains such as dirt roads, stone roads, deceleration zones, and climbing slopes, due to its strong power and climbing ability.

7. MAINTENANCE AND CARE

To ensure the longevity and optimal performance of your controller:

- **Cleaning:** Wipe the controller with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Storage:** Store the controller in a dry, cool place away from direct sunlight and extreme temperatures.
- **Inspection:** Periodically check the joystick for smooth movement and ensure all buttons respond correctly. Inspect cables for any fraying or damage.
- **Battery:** Monitor the wheelchair's battery health as per the wheelchair manufacturer's guidelines.

8. TROUBLESHOOTING

If you encounter issues with your controller, consider the following common solutions:

- **Controller Not Responding:**

- Ensure the controller is powered on.
- Check all cable connections to ensure they are secure.
- Verify the wheelchair's battery has sufficient charge.

- **Erratic Movement:**

- Ensure the joystick returns to its neutral position when released.
- Check for any obstructions around the joystick.

- **Speed Issues:**

- Adjust the speed settings using the acceleration (+) and downshift (-) keys.
- Ensure the battery is adequately charged, as low power can affect performance.

If problems persist, consult a qualified technician or contact Hilitand customer support.

9. SPECIFICATIONS

Attribute	Value
Model Number	Hilitandf7kipnw4s9
Manufacturer	Hilitand
Package Dimensions	8.43 x 5.83 x 4.49 inches
Item Weight	2.35 pounds
First Available	June 8, 2023

10. WARRANTY AND SUPPORT

Hilitand is committed to providing quality products and customer satisfaction. For information regarding warranty coverage, technical support, or service inquiries, please refer to the official Hilitand brand store or contact their customer service directly.

Visit the [Hilitand Store](#) for more information.