

Wireless Data Terminal Manual



Wireless Data Terminal

Wireless Data Terminal Functions

This wireless data terminal is an accessory for the Rigel commercial cleaning robot. It is installed on the robot's handle, enabling users to interact with the robot for cleaning through the terminal interface.

- Wireless Data Terminal can only be used in the Rigel commercial cleaning robot











No.	Item	Description
1	Robot Operations Center (ROC)	6.517 inch,HD 1600*720. The icons for battery, time, and network signal are displayed in the top-right corner of the screen. The main interface is shown in the central part of the screen. In the bottom right corner of the screen, there's the Settings icon.
2	Power button	This button controls the power on/off, screen brightness, and screen sleep functions of the wireless data terminal.
3	Volume button	This button is used to adjust the volume of the wireless data terminal.
4	Nano SIM slot	This is the slot's location. You can open it using the provided pin and insert a Nano SIM card.
6	USB Type-C	Use this interface for data transfer, communication, or to charge the wireless data terminal.

■ Wireless Data Terminal Functions & Usage

- Through this terminal display screen, operators can obtain real-time information about the cleaning robot's work, including its current location, cleaning progress, battery status, and other key details. This real-time monitoring feature enhances the operator's ability to control the robot's work, ensuring that cleaning tasks are efficiently completed.
- The terminal display screen offers an intuitive operating interface, allowing operators to set cleaning paths, adjust cleaning intensity, or execute specific tasks through touch or simple button operations. This user-friendly design enables even untrained operators to easily operate the robot, increasing its usability and flexibility.
- The terminal screen displays error messages and maintenance information for the cleaning robot, assisting operators in quickly identifying and resolving issues to ensure the stable operation of the robot. This timely feedback helps reduce maintenance costs and improve the robot's reliability.



■ Alert display and its notification timing


Appearing on display	Description	Appearing on display	Description
	Standby (within the communication range/paired)		Autonomous cleaning complete
	Machine battery level low		No machine battery remaining
	Dustbag full		Connected for wireless communication
	Connection for wireless communication not possible (outside communication range/not paired)		Error alert <ul style="list-style-type: none"> · When danger has been detected near obstacles or steps · When the emergency stop button has been pressed · When the machine goes off path during the operation

Wireless Data Terminal Power On/Off


■ Turning the Wireless Data Terminal On

1 Long-press the top button of the robot to power it on

Press and hold the power button on the top of the robot for 3 seconds. When the button indicator lights up and the robot's buzzer sounds, both the robot and the wireless data terminal power on.

 The button indicator lights up



 The wireless data terminal power on

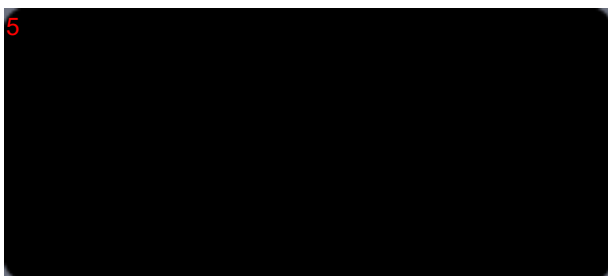
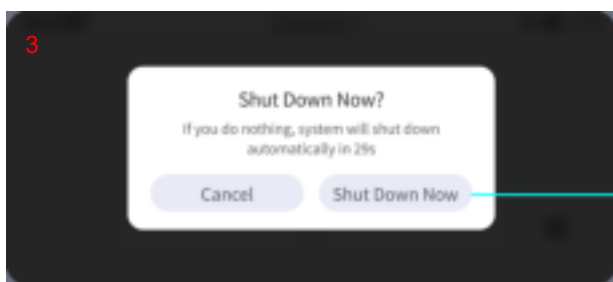


■ Turning the Wireless Data Terminal Off

1 Press the Shut Down touch button to power it off

Pull down the status bar of the wireless data terminal, where you can find the 'Shut Down' option. Clicking on it will power off both the robot and the wireless data terminal. Alternatively, it will automatically power off when the battery level is below 3%.

🚩 The wireless data terminal display goes out.



Auto Cleaning

- Please check your wireless data terminal cellular connection in advance. Robot Operations Center (ROC) will not be connected to LTE in an area where there is no signal.
- The connection status to the ROC will be shown on the top right corner of the display.

1 After the robot powers on, click on the 'Auto Cleaning' icon on the terminal interface.



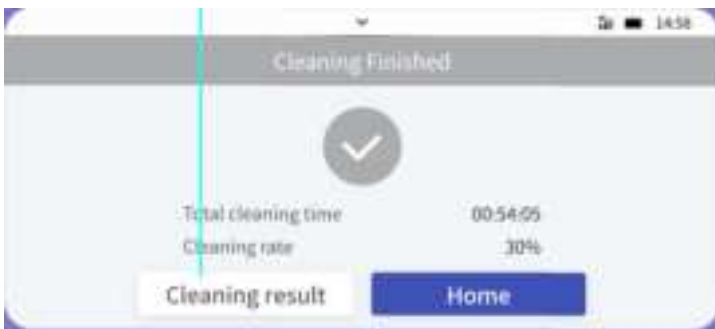
2 Select a task map, then click the start button to load the designated map.



Localization succeed, store the handle, the robot will start Auto Cleaning.

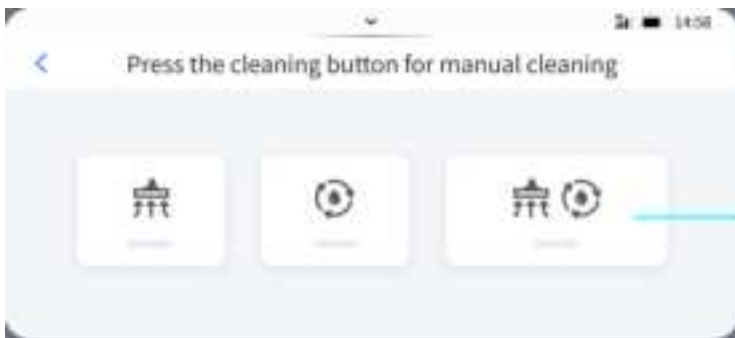


4 Carry out auto cleaning and cleaning finished



Manual Cleaning

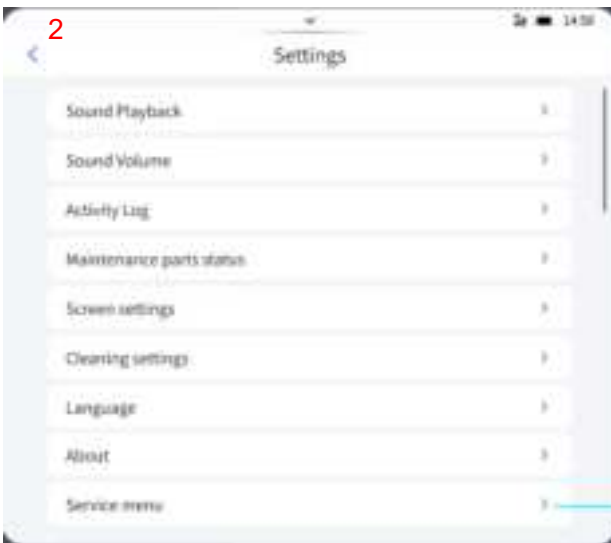
- 1 Robot Operations Center (ROC) display, click on the 'Manual Cleaning' icon.



Setting

The Settings menu offers a range of functions for user customization. Users can adjust basic settings such as notification sound selection, volume levels, screen brightness, and more. Additionally, they can check the lifespan of consumable parts, access cleaning settings, perform robot self-checks, and utilize other professional features. Settings serve as the central hub for users to finely manage and personalize their robots.

1 Robot Operations Center (ROC) display, click the gear icon.



Safety Warnings

About safety Warnings

IMPORTANT SAFETY INFORMATION: Please read and understand these Safety Warnings prior to unpacking and using the machine.

Warnings presented here are intended to warn the user of potential harm to the use and other persons as well as damage to property. Always adhere to them to reduce the potential for harm.




This manual also provides safety warnings, correct handling procedures, and other regulatory information for using the machine, wireless data terminal, battery, and battery charger. Warnings provided in this manual do not cover all possible situations that may arise.

Always adhere to warnings regarding machine installation, maintenance, and use and store this manual where it can always be referred to. In the following emergencies, immediately press the emergency stop button and remove the battery.

- The machine is in a hazardous state (example: emitting smoke, is operable, has fallen over, etc.)
- The machine comes close to inflicting harm on surroundings persons or things.
- The machine is operating (behaving) unpredictably or is operating in a manner that is inconsistent with this manual.




Description of Symbols

The following symbol categories explain the level of harm or damage can occur if warnings are not observed and equipment is used incorrectly. Please be sure you understand these symbols and their correlating meanings before reading the remainder of this manual.

 DANGER	Indicates a hazardous situation that, if not avoided, will result in death or serious injury.
 WARNING	Indicates a hazardous situation that, if not avoided, could result in death or serious injury.
 CAUTION	Indicates a hazardous situation that, if not avoided, could result in minor or moderate injury.

Description of Pictorial Indications

The following pictorial indication categories explain information to be observed. Read this guide after thoroughly understanding the information.

	Prohibited (not allowed) action.		Compulsory action based on instruction (must be performed).
	Must not be used where exposed to water, and must not be splashed with water.		

Handling the wireless data terminal

DANGER



Do not drop or throw.

Subjecting it to strong impact may cause the battery pack in the wireless data terminal to leak, overheat, rupture, or ignite, and otherwise result in injury, electric shock, damage, malfunction, overheating, leakage, chemical explosion, or other damage to the machine, battery charger, battery or wireless data terminal.

WARNING



Store out of the reach of infants and access of pets.

Failure to do so may present a choking hazard or other risk of physical injury or death of infants or pets



If prolonged contact with the notification pager causes skin irritation (itchiness, rash, eczema, etc.), immediately discontinue use and consult a doctor.

Handling near Electronic Medical Devices

DANGER



If wearing an implanted cardiac pacemaker or implanted defibrillator, consult with the manufacturer of such medical device to confirm a safe operational distance from the machine.

Electric signals may affect the operation of the pacemaker or defibrillator






Do not use in a healthcare environment or near electronic medical devices

* The machine does not comply with UL or IEC 60601 standards (or equivalent standards).

Pictorial Symbols

Refer to the labels on each piece of equipment (the machine, battery charger, battery)

	Do not short-circuit.		Do not disassemble.
	Do not immerse in water or other liquid.		

Machine Disposal and Recycling

The machine you have purchased is designed and manufactured with recyclable, high-quality materials and components. When disposing of the machine, check that it is being disposed of properly as industrial waste differentiated from general and business waste according to regional and municipal regulations by request to an industrial waste disposal operator.

* If the machine is being leased, it cannot be disposed of by yourself. Contact customer support. When disposing of the machine, remove the battery from the machine, and dispose of properly according to regulations for waste disposal in the region you are residing in.

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Product Name:	<u>Wireless Data Terminal</u>
Model:	<u>H651-62M2</u>
FCC ID:	<u>2ATI9-H65162M2</u>
IC ID	<u>25110- H65162M2</u>

FCC Compliance Statement

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

“Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment”.

“This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.”

ISED Compliance

This device complies with Innovation, Science and Economic Development Canada S licence-exempt RSSs Operation is subject to the following conditions:
1. This device may not cause harmful interference.

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2. This device must accept any interference received, including interference that may cause undesired operation.

Body-worn operation

Conformité à la réglementation Canadienne

Le présent appareil est conforme aux CNR Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

1. l'appareil ne doit pas produire de brouillage;
2. l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Opération du corps porté

L'appareil est conforme à la norme RSS 102, RF, lorsqu'il est utilisé près de votre oreille ou à une distance de 20 cm de votre corps (distance de sécurité d'exposition RF de 20 cm). Assurez-vous que les accessoires de l'appareil, tels que son boîtier et son étui, ne sont pas composés de composants métalliques.

CAN ICES-3 (B)/NMB-3(B)

IC: 25110-H65162M2