

www.cleanfix.com



S170 Navi

Owner's Manual

Bedienungsanleitung

Manuel d'utilisation

Istruzioni per l'uso

Instrucciones de uso

ユーザーガイド



OWNER'S MANUAL

S170 Navi

Fleet-ready Brush Vacuum Robot | 2nd Generation | Mid 2024

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Please read this manual carefully before use.

- » After reading, please keep this manual with the invoice.
- » Cleanfix reserves the right to clarify these instructions.
- » Product appearance may vary.
- » Software updates may occur without notice.

Safety instructions

Always observe basic precautions when using this electrical appliance, including the following:

WARNING

READ ALL SAFETY INSTRUCTIONS AND THE ENTIRE MANUAL. Failure to follow these warnings and instructions may result in electric shock, fire, or serious injuries.

WARNING

- » **Age and Supervision:** This device is for children 8 years and older. Supervise or instruct individuals with reduced physical, sensory, or intellectual abilities, or those lacking experience and knowledge. Children must not play with this device. Cleaning and maintenance should be supervised if performed by children.
- » **Proper Use:** Use the robot according to this manual and its intended purpose. Cleanfix is not responsible for any damage or injury resulting from improper use.

To reduce the risk of injury or damage, observe these safety precautions when installing, using, and maintaining the device:

- » Read all safety and operation instructions before using the device.
- » Keep the safety and user manual for future reference. If lost, download an electronic version from www.cleanfix.com or ask your **Cleanfix dealer**.
- » Follow all operating and usage instructions.

Disposal instructions



The product's labels or packaging indicate that electrical appliances should not be disposed of as unsorted waste. Use a separate waste collector. Contact local authorities for proper disposal methods. Improper disposal can lead to hazardous substances contaminating groundwater and entering the food chain. For more information, contact your local or regional waste management agency about recycling and reuse programs.

Restrictions

- » **Indoor use only:** Do not use the device outside or in industrial environments.
- » **Pre-use preparation:** Remove fragile items, loose objects, and power cords from the floor to prevent the device from snagging. Consider the robots's climbing height!
- » **Not a toy:** Do not sit or stand on the device. Supervise children and pets during operation to ensure their safety.
- » **Temperature:** Store and operate the device at room temperature.
- » **Do not clean hazardous materials:** Do not use the robot to clean anything burning, smoking, wet, or containing bleach, paint, or other chemicals.
- » **Balcony safety:** Use a physical barrier to prevent the robot from accessing balconies.
- » **Supervision required:** Supervise individuals with reduced abilities, children, or those who lack experience during operation, cleaning and maintenance.
- » **Avoid placing objects on the robot:** Keep its surface clear, specially the LiDAR-sensor.
- » **Operational caution:** Be careful when moving within the work area to avoid accidentally stepping on or kicking the robot.
- » **Power outlet safety:** Do not operate the device near exposed ground power outlets.

Battery and charging

- » Use only Cleanfix-approved original rechargeable battery packs.
- » Charge using the standard complementary charging dock provided. Use of any other power adapter will immediately void the warranty.
- » Do not use a charging station with a damaged power cord or plug; it must be repaired by an official Cleanfix dealer or a similarly qualified party.
- » Make shure to charge and remove batteries from the robot and its accessories before long-term storage or transportation.
- » The remote control uses AAA alkaline batteries. To replace them, slide open the battery cover on the back of the remote control.
- » Charge the device indoors only.
- » Do not operate the robot and charging station with wet hands.
- » Before cleaning or maintaining the dock, unplug it from the socket.
- » Ensure the voltage rating of the charging dock matches the power outlet.
- » Dispose used battery packs in a sealed plastic bag and dispose them according to local environmental regulations.
- » Before use, inspect the battery pack for damage or leakage. Do not charge damaged or leaking battery packs.
- » Contact your local dealer if you have any concerns about the battery pack.
- » Remove the battery pack from the device before disposal.
- » Do not crush, disassemble, heat, or expose the battery pack to heat sources, liquid, fire, or short-circuiting.
- » Do not immerse the battery pack in any liquid.
- » Do not crush or disassemble the device.

FCC Compliance Statement

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

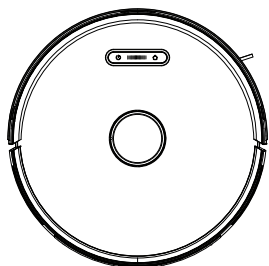
Warning: Unauthorized changes or modifications not expressly approved by the responsible party could void the user's authority to operate the equipment.

Note: This equipment has been tested and meets the limits for a Class B digital device under Part 15 of the FCC Rules. These limits aim to provide reasonable protection against harmful interference in residential installations. The equipment generates, uses, and can emit radio frequency energy. Improper installation or use contrary to the instructions may cause harmful interference to radio communications. While efforts are made to minimize interference, there is no guarantee against it in every installation. If the equipment causes harmful interference to radio or television reception, which can be determined by turning the equipment off and on, users are encouraged to take corrective measures such as (1) reorienting or relocating the receiving antenna, (2) increasing the distance between the equipment and receiver, (3) connecting the equipment to an outlet on a different circuit than the receiver, or (4) consulting the dealer or an experienced radio/TV technician for assistance.

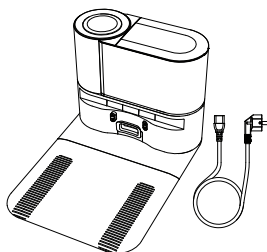
FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits for an uncontrolled environment. It should be installed and operated with a minimum distance of 20cm between the radiator and your body.

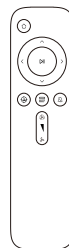
Scope of delivery



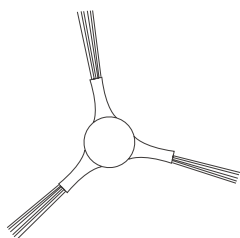
Robot (main unit)



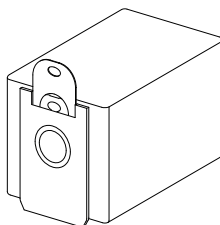
Docking station
(for dust collection and
charging)



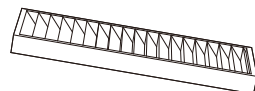
Remote control



Side brush
(for main unit)



Replaceable dust bag
(for docking station)



HEPA-filter
(for main unit)



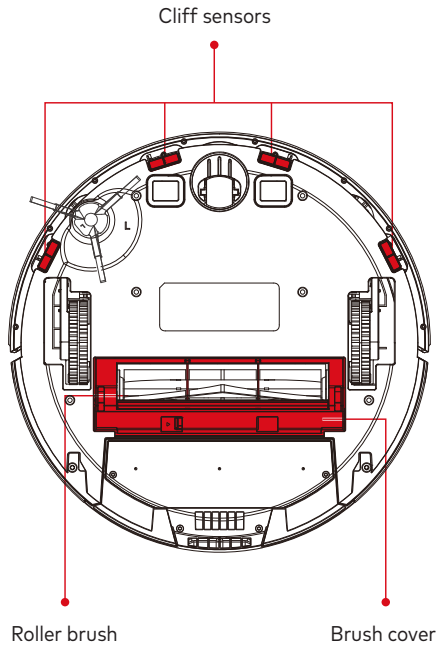
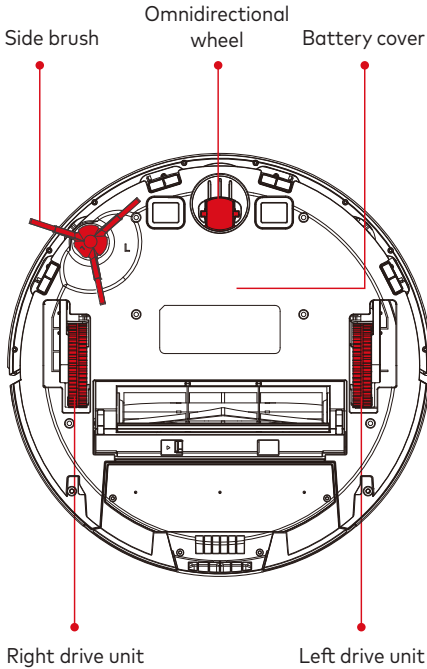
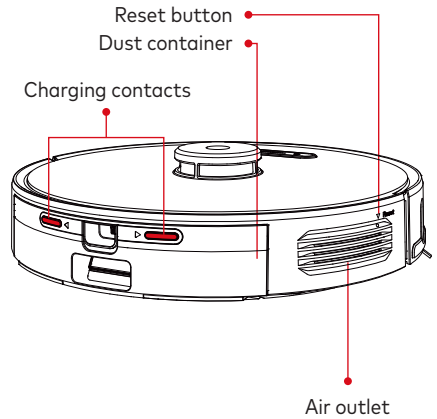
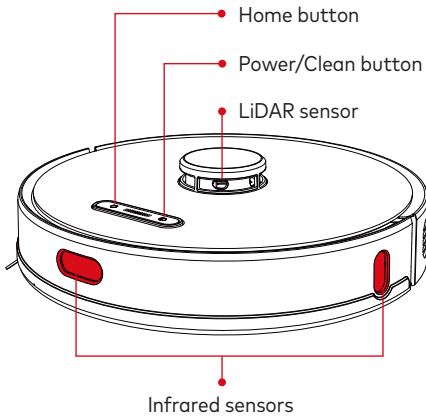
Cleaning tool



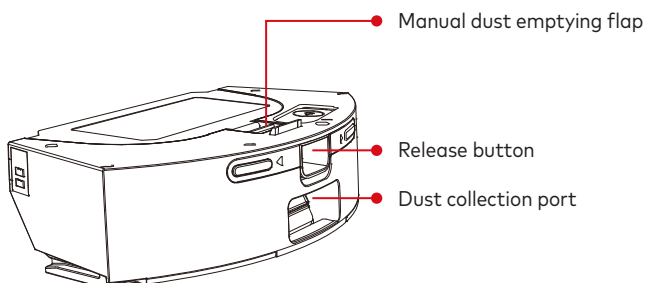
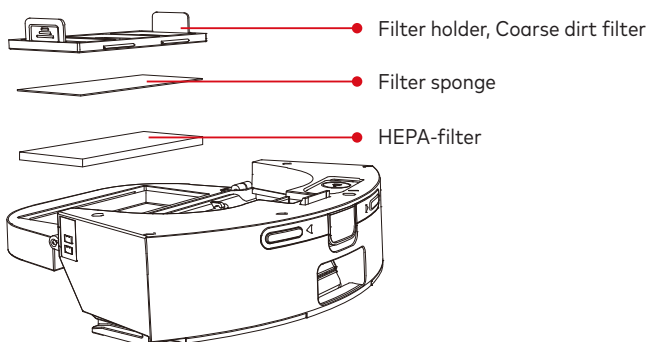
Owner's manual

Product description

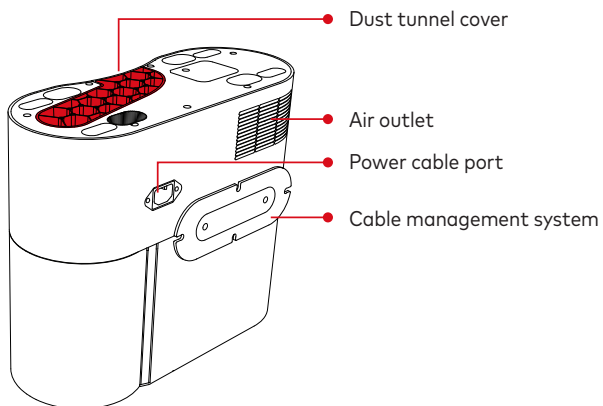
Robot (main unit)

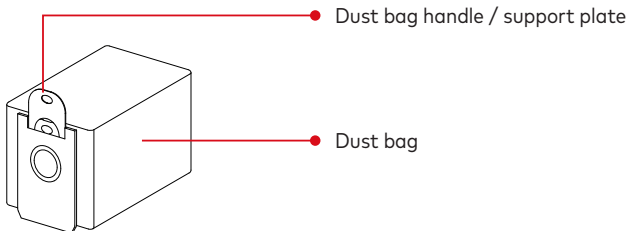
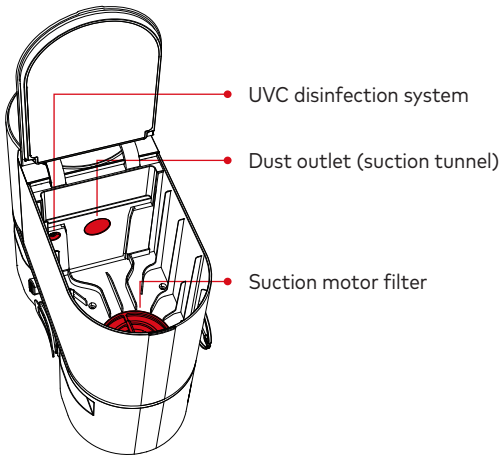
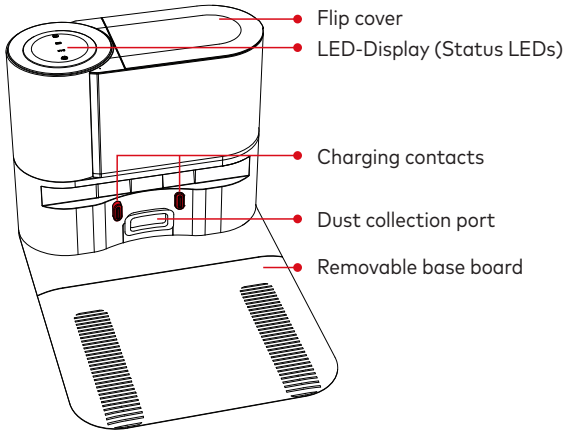


Dust container



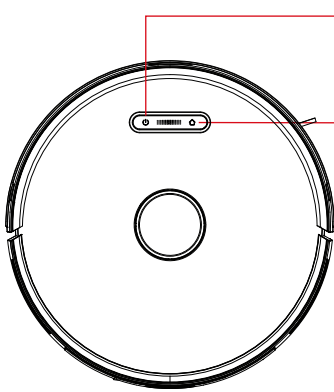
Docking station (Dust collector and charger)



**Note:**

- 1) The dust bag comes pre-installed from the factory.
- 2) The dust bag is usually still folded. It will unfold during the first use.
- 3) To ensure proper suction, the support plate of the dust bag must be fully inserted into the slot (see figure above).

Status LEDs and button assignment – Robot



Power / Clean button

- » **Press and hold (5s):** Turn on / off
- » **Short press:** Start / pause cleaning.

Home button

- » **Short press:** Return to the docking station.

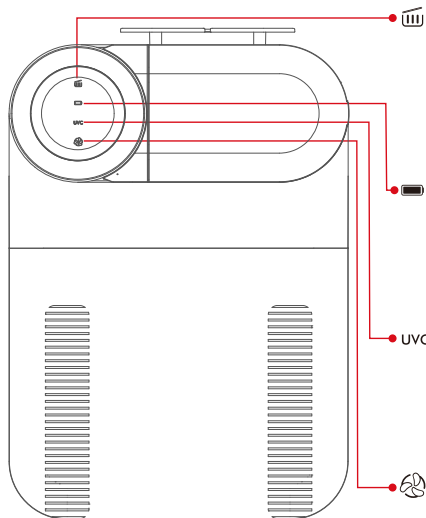
Status LEDs

- » **Blue flashing:** Powering on / upgrading firmware
- » **Blue solid:** Standby / working normal
- » **Yellow flashing:** Low battery / going home
- » **Green flashing:** Charging
- » **Green solid:** Fully charged
- » **Red flashing:** Error state

Network configuration

Press and hold the **Home** and **Power** buttons simultaneously for **5 seconds** to enter network configuration mode.

Status LEDs – Docking station



Dust bag indicator

- » **White solid:** Dust bag is full / dust duct is blocked
- » **Red flashing:** No dust bag installed / wrong installation

Power / Battery indicator

- » **Green flashing:** Charging
- » **Green solid:** Fully charged / Standby

UVC-System indicator

- » **White solid:** Disinfection active
- » **Light off:** Disinfection off

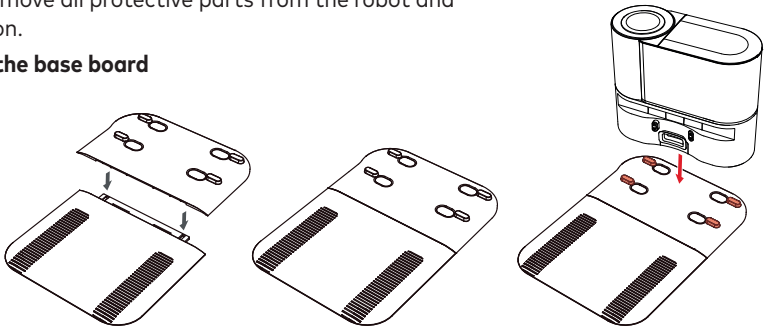
Suction motor indicator

- » **White solid:** Collecting dust
- » **Red flashing:** Motor overheated / fan error / flip cover open

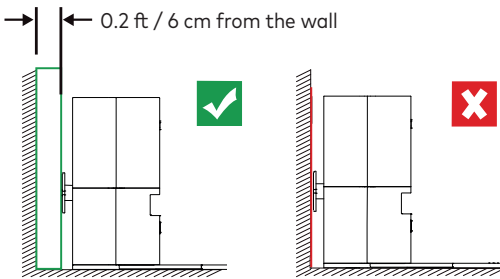
Installation and setup

Before use, remove all protective parts from the robot and docking station.

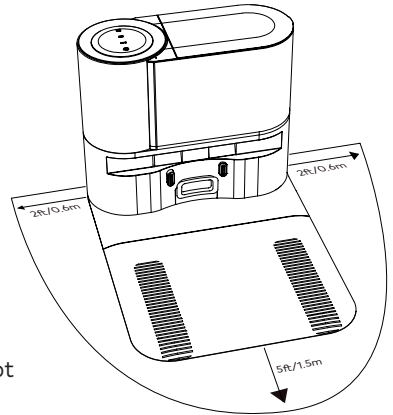
1) Assemble the base board



2) Set up the docking station

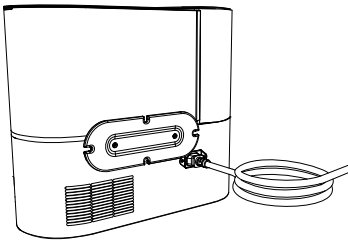


The docking station automatically empties the robot and recharges its batteries.

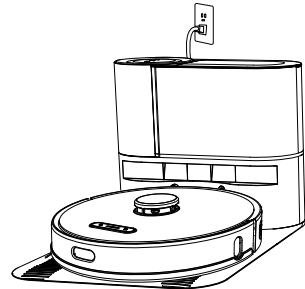


Installation: First, install the supplied power cable. Then place the station on a flat, hard surface at least 6 cm (0.2ft) from the wall. If the surface is uneven, use the base plate. Make sure there is enough space in front and on both sides for the robot to easily return to the dock.

3) Connect the powercord



4) Charge the robot



Note: The dock must always remain connected to power. Avoid using a power source that can be accidentally switched off (e.g., power strip, light switch, GFCI).

Setup the Robot-to-App connection

To unlock the full potential of your Cleanfix S170 Navi, we highly recommend using the control application / fleet management software FieldBots OS. FieldBots OS comes in both a free and a premium version. The premium version is tailored for professional use, providing extensive features for managing multiple devices, floors, buildings, and users. It also includes the option for a mobile data connection (no Wi-Fi needed).

Learn more about FieldBots at www.fieldbots.io.

These are the **advantages** of using the app:

- » Remote cleaning control and various cleaning modes.
- » Edit cleaning maps, set no-go areas, and create virtual walls.
- » Schedule cleanings with the cleaning planner.

1) Download the App

Search for „FieldBots“ in the app store on your mobile device or scan the QR code.



For Apple iOS



For Android

2) Open the App


Once the app is downloaded, search for „FieldBots“ and open the app.



FieldBots

3) Login or create an account

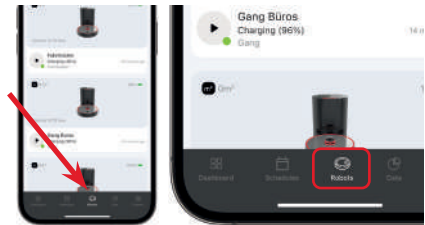
Create a new account by clicking on „Register“ or log in to your existing account.



New user? **Register**

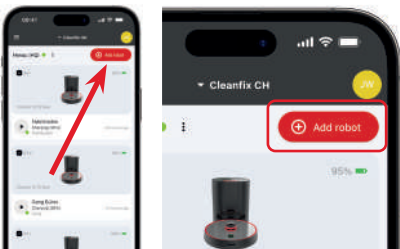
4) Open the fleet page

Switch to the fleet overview via the „Robots“ tab.



4) Add the robot to FieldBots

Click on „Add robot“ and select the „Cleanfix S170 Navi (Gen. 2)“.



6) Follow the instructions

From now on the app will guide you through the installation process.

Note: The installation process is initiated via a QR-code on the device. Please store it or leave it on the robot/dock.



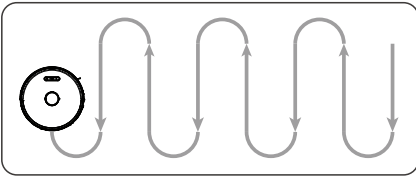
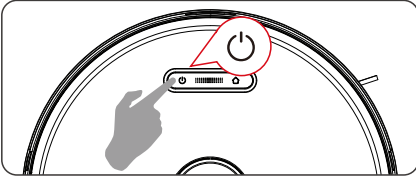
Operation

Buttons on the robot

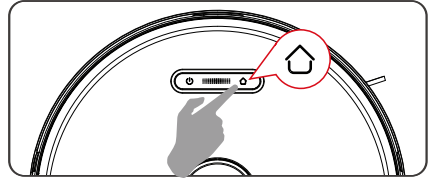
Press the power button „“ on the robot to activate it or initiate cleaning.

Note: When the robot remains inactive for several minutes, the LEDs will turn off and the robot will enter standby mode. Press the power button on the robot to wake it up.

Start / Pause

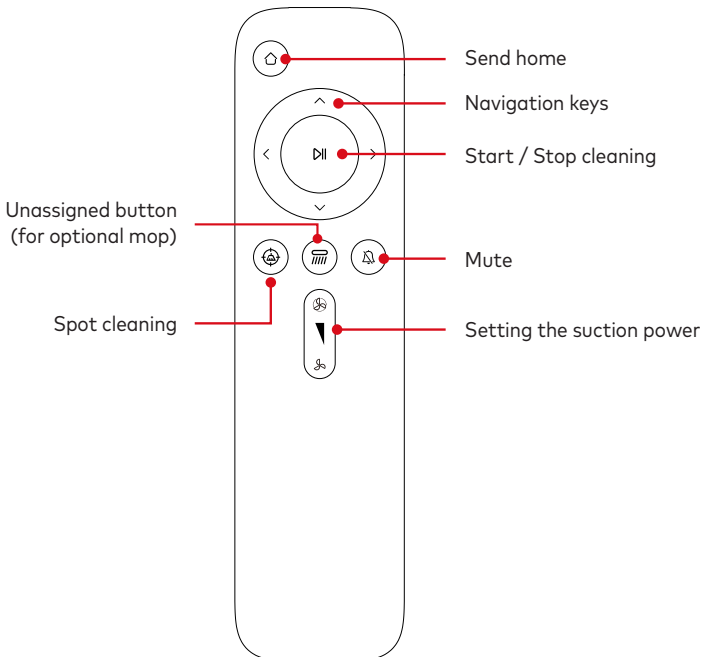


Send home / Recharge

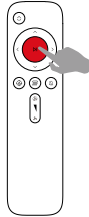
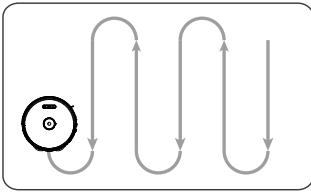


Remote control

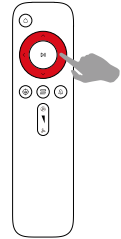
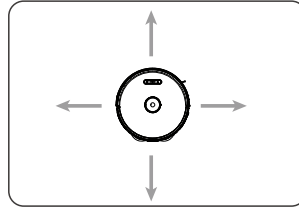
During operation, the remote control should point to one of the infrared sensors. Ideally the front one. The range of the remote control is 3-6 m (10-20 feet).



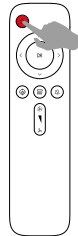
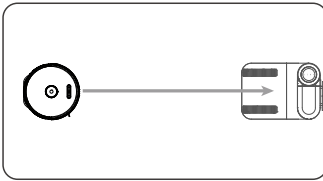
Start / Pause



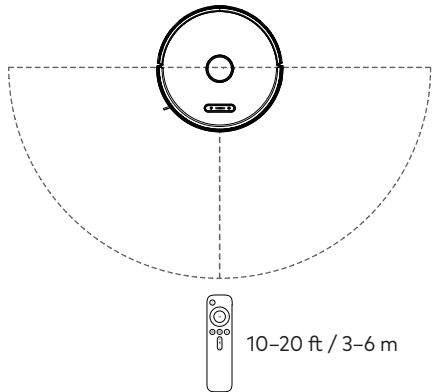
Navigation keys



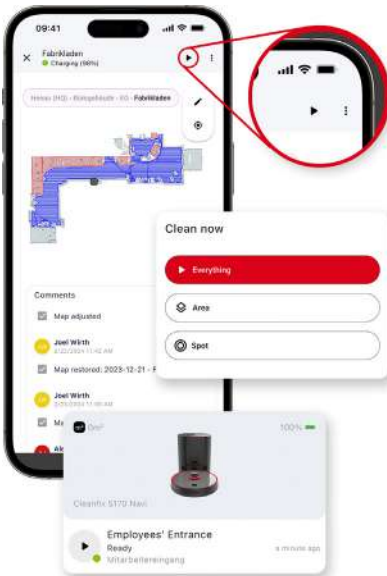
Send home (to recharge)



Remote control – Position and distance



App – FieldBots OS



The FieldBots app offers 3 cleaning methods; alternatively, cleaning can also be initiated using the cleaning scheduler.

Cleaning modes

1) Everything

The robot cleans everything it is allowed to according to its cleaning map. If there is no existing map, it creates a new one.

2) Area


The map can be divided into subzones. In this mode, subzones can be selected and thus partially cleaned.

3) Spot

In this mode, you can mark an area on the map for the robot to clean. The robot will clean the area twice (in opposite directions).

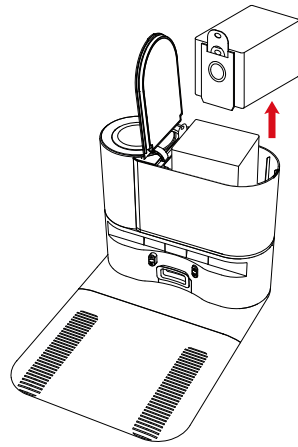
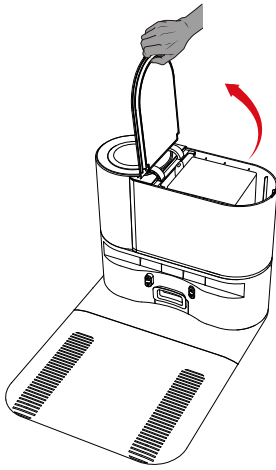
Empty the docking station

The dirt sucked out of the robot by the docking station is transported into a replaceable dust bag. Once the dust bag is full, dispose it and replace it with a new one. You can obtain consumables from your Cleanfix dealer or on our website.

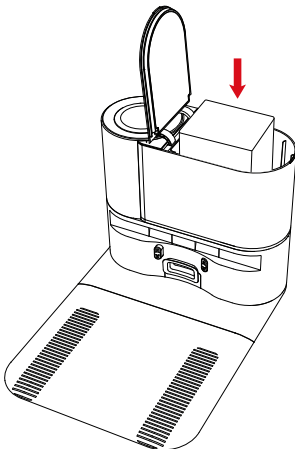
The LED indicator on the docking station will display when the dust bag needs to be changed (the fan symbol „“ turns white). If your robot is connected to the FieldBots OS app, you will receive this notification directly within FieldBots.

Note: Pull out the dust bag by the cardboard flap to close the dust bag opening.

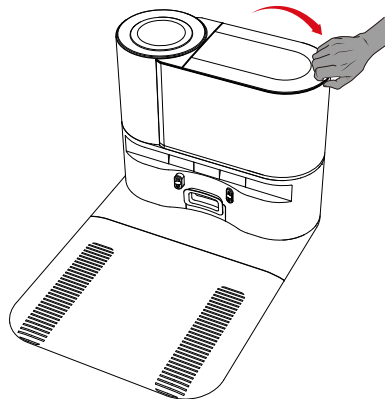
- 1) Open the cover of the docking station.
- 2) Pull out the dust bag using its handle.
- 3) Discard the old dust bag properly.



- 3) Insert a new dust bag into the compartment.

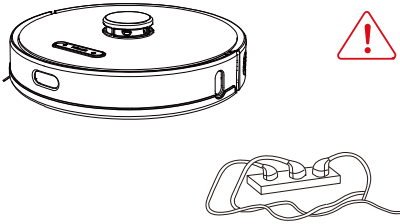


- 5) Close the cover securely.

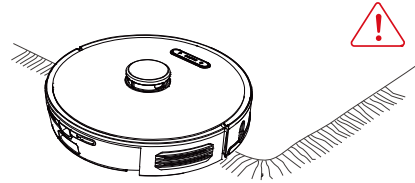


Precautions during autonomous cleaning

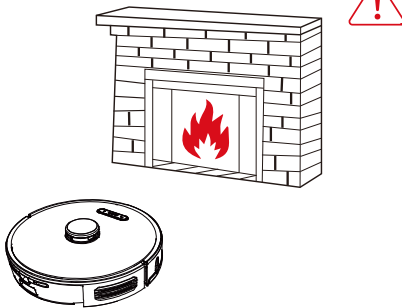
- 1) Remove power cords and small objects from the floor to prevent the robot from getting entangled.



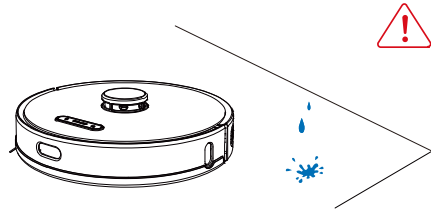
- 2) Fold the tasseled edges of area rugs underneath to prevent tangling.



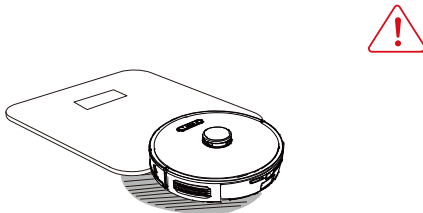
- 3) We strongly recommend placing boundary strips in front of fireplaces and other areas (e.g., air vents) that may damage the robot.



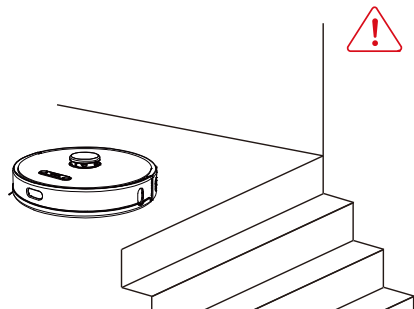
- 4) Keep the robot away from wet areas and do not let it collect / clean water.



- 5) The robot can climb over objects less than 15-20 mm (0.59-0.79 inches) in height. Remove these objects if possible, or equip the robot with the optional front bumper extension.



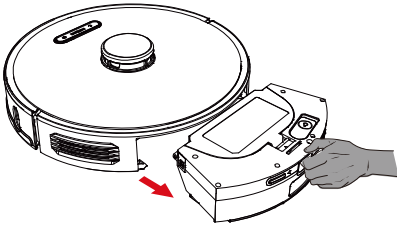
- 6) Cliff sensors prevent the robot from falling down stairs. Reflective or dark floors may reduce their effectiveness; we recommend to block off areas where the robot may fall.



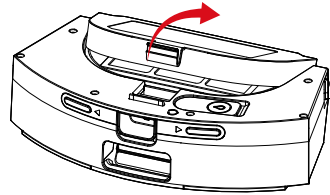
Maintenance and care

Dust container and filters

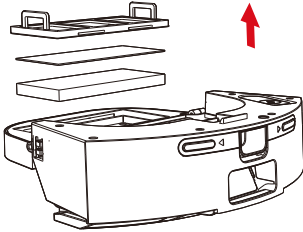
1) Press the release button and pull out the dust container.



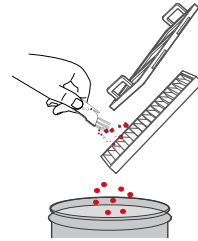
2) Open the cover.



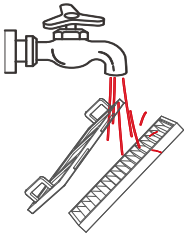
3) Remove the filters by releasing the filter holder.



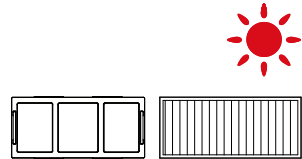
4) Clean all 3 filters thoroughly.



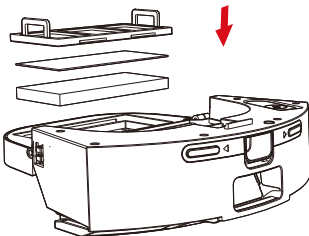
5) Rinse the coarse dirt filter and HEPA filter with water.



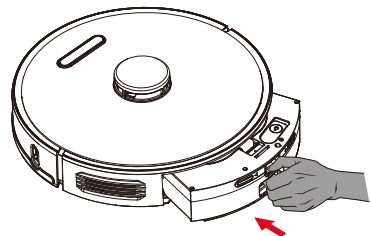
6) Air dry the 3 filters before the next use.



7) Reinstall the dry filters.

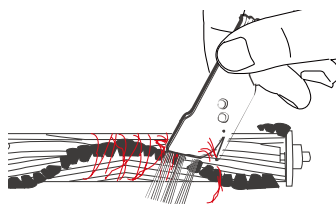
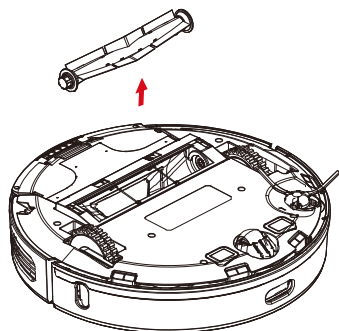


8) Reinstall the dust container.



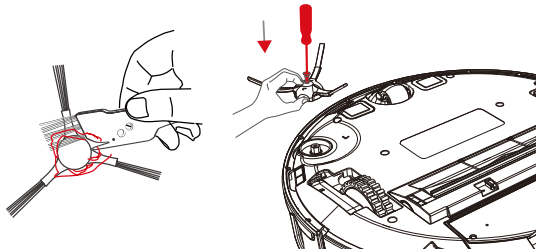
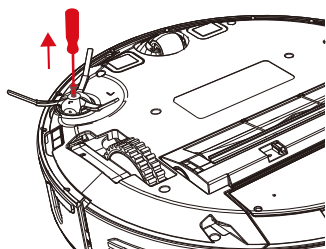
Roller brush

- 1) Remove the roller brush holder to access the roller brush.
- 2) Remove tangled hair and dirt with the cleaning tool.



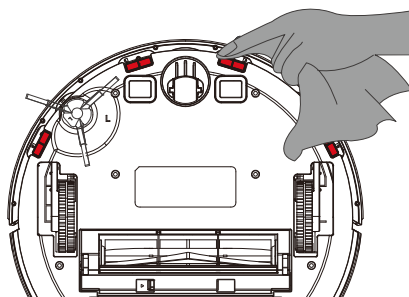
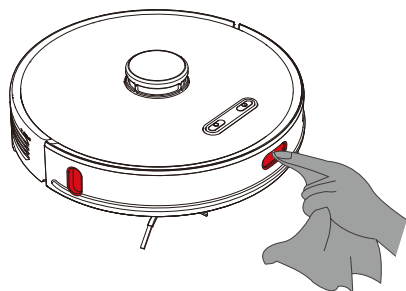
Side brush

- 1) Loosen the screw of the side brush with a screwdriver.
- 2) Clean the side brush with the cleaning tool and refit it.




Infrared sensors

- 1) Clean the 3 „front“ infrared sensors.
- 2) Clean the 4 infrared sensors on the bottom of the robot.



Tip: A multi-purpose cleaning tool is supplied within the scope of delivery to facilitate maintenance. Please be careful with the sharp edges.

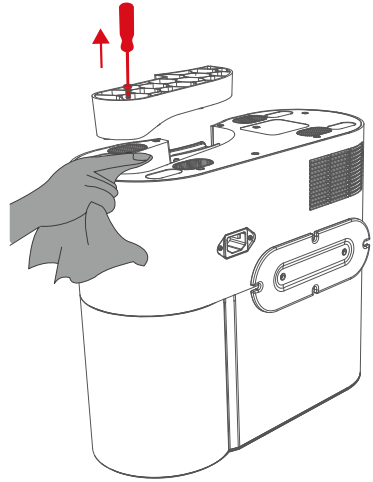
Docking station

If the robot's dust container is not emptying properly or the „“ indicator is solid white, it may indicate that the dust tunnel is blocked.

Follow these steps:

- 1) Unplug and turn over the docking station.
- 2) Remove the dust tunnel cover with a screwdriver.
- 3) Remove dirt and deposits in the dust tunnel.

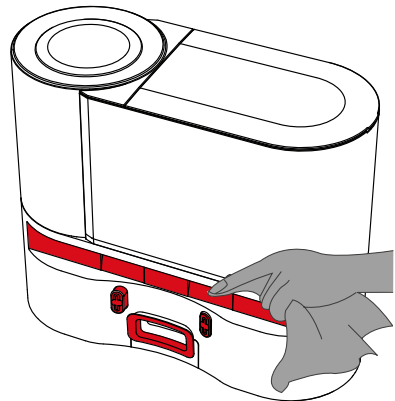
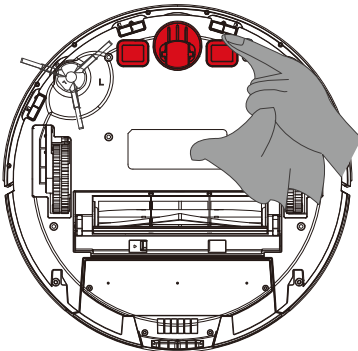
Tip: Refer to the image for guidance.



Other parts

- 1) Clean the charging contacts and the omnidirectional wheel.

Note: These additional charging contacts are for use with a docking station without dust extraction.
- 2) Clean the charging contacts of the docking station as well as the infrared transmitter and the parking guidance surfaces (glossy black) with a soft cloth.



Maintenance frequency and replacement

Maintain and replace wear parts at the following intervals to keep the robot running at optimal performance.

Note: The lifespan may vary depending on the degree of contamination, soil conditions, and frequency of use. Perform regular visual inspections.

Part	Maintenance frequency	Replacement frequency
Roller (Main) brush	Every week	Every 3-6 months
Side brush	Every two weeks	Every 3-6 months
Filter holder, Coarse dirt filter	Every week	Every 3-6 months
HEPA-filter	Every week	Every 3-6 months
Dust container	Every week	if damaged
Sensors, omnidirectional wheel, bumper, robot	Every week	if damaged
Dust bag	no maintenance	Every 2-5 months

Tip: A multi-purpose cleaning tool is supplied within the scope of delivery to facilitate maintenance. Please be careful with the sharp edges.

Note: We offer and produce various spare parts and accessories. For more information on spare parts, please contact your local Cleanfix dealer or visit our website.

Product specifications

The Cleanfix S170 Navi is a brush vacuum robot with docking station. The docking station sucks the dirt out of the robot's tank and transports it into a dust bag. It also recharges the robot's batteries. Cleaning is performed with a 17 cm wide roller brush. This „main brush“ is fitted with brushes and plastic lamellae. The dirt collected by the roller brush is transported to the dust container via a powerful vacuum system with HEPA filter.

The robot navigates using a 360-degree LiDAR sensor and independently creates a map of its environment, which it updates as changes occur. With its sensors (LiDAR, infrared and full-surface front bumper), the S170 Navi detects obstacles and manoeuvres around them efficiently.

When the battery is low or cleaning is complete, the robot automatically returns to the docking station to recharge and empty the dirt tank. If the area cannot be completely cleaned, it resumes cleaning at the previous position.

Description	Value
Make and Model	Cleanfix S170 Navi (Gen. 2)
Charging time	≤5.5 hours
Power rating (Robot, main unit)	50 W
Rated working voltage	14.4 V
Battery capacity	5'200 mAh
SIM-Card	Yes, activate via the FieldBots-App (only with paid FieldBots OS subscription)

Troubleshooting

Robot



Problem	Cause	Solution
Robot cannot connect to the app	Incorrect WiFi Name (SSID) or Password.	Reconfigure the network settings, make sure the entered WiFi Name (SSID) and Password are correct.
	The robot is not within the router's network coverage.	Move the robot and ensure it is within the router's network coverage.
	The robot has no cellular signal.	If activated: Check for good cellular reception at the robot's location, or move the device. Alternatively, use a WiFi connection.
	The robot is not in network configuration mode	The robot must enter the network configuration mode to connect to the WiFi. Press HOME and POWER simultaneously for 5 seconds
	You are using the wrong app	Make sure to download the correct app! It's name is „FieldBots“. More information is provided in the setup section of this manual.
Robot does not recharge (1/2)	The charging contacts of the robot and the docking station are not fully connected.	Make sure that the robot is touching the charging contacts of the docking station and that the LED indicator is flashing. Check if the charging contacts of the robot or the docking station are dirty. Cleaning instructions can be found in this manual. If the floor is uneven, use the base plate.
	The docking station is not placed in the correct position and/or was not placed as required.	Check that the docking station is positioned as described in the hardware installation chapter.
	The lens of the infrared receiver is dirty	A dirty lens can interfere with signal reception. Clean all sensor surfaces. You can find instructions in the maintenance chapter.
	Charging contacts are dirty and/or not in full contact.	After ensuring the robot and the docking station are fully in contact and the status indicator lights are in a flashing state, check whether the charging contacts are dirty. Refer to the maintenance chapter for cleaning instructions.
	It has or there are too many objects around or in front of the docking station	Ensure the charging station has 2ft/0.6m of clear space on the sides and 5ft/1.5m in the front.

Problem	Cause	Solution
Robot does not recharge (2/2)	The charging station is not connected to a power source.	Ensure the power cord is connected (reference: charging station indicator light).
	Prolonged inactivity, resulting in deep-discharge of the battery.	If the battery has deep-discharged due to prolonged inactivity and cannot be charged, it must be replaced. Please contact your local Cleanfix dealer.
	The robot is out of the charging station's range.	Move the robot closer to the charging station to re-establish the connection.
The robot got stuck while operating	The robot is blocked or stuck due to excessive dirt, hanging curtains, carpet fringes, etc.	The robot will try various methods to free itself. If it fails, manually untangle the robot.
	Depending on the shape and placement, it can get stuck on or under furniture	Ensure the robot has a clear path and remove potential obstacles. Use the optional front bumper extension (contact your Cleanfix dealer or visit our website for more information).
The robot keeps bumping into objects	The infrared obstacle avoidance sensor lenses are dirty.	Periodically wipe the sensors with a dry cloth. Check the maintenance chapter for more information.
	The front wheel is blocked	Check the front wheel regularly for tangled hair, threads and other small objects.
The red light flashes when the robot is operating	Abnormal prompt sound from the device.	Follow the unit's voice and app prompts. Restart the robot by pressing the POWER button for more than 5 seconds. Contact your local Cleanfix dealer.
Excessive noise when operating	The side or roller brushes are tangled, the dust tank or one of the filters is clogged/full.	Regularly clean and maintain the side brush, roller brush, dust box, and filter materials.
	The robot runs on the highest suction level.	Change to standard cleaning mode.
Decreased cleaning ability or dust shedding from the dust box	The dust box is full.	Please check if the dust box is full.
	The HEPA filter is clogged.	Check and clean the HEPA filter.
	The roller brush is clogged.	Check the roller brush for obstructions.
	The roller brush is at the end of its service life	Replace wearing parts according to the instructions.
Driving wheels are entangled	The driving wheel is entangled or has snagged on a foreign object.	Turn and press the driving wheel to check for foreign objects. If dirty or blocked, clean it.

Problem	Cause	Solution
The robot cleans in an unorderly route, exhibiting route deviation, repetitive cleaning, and/or missing small areas	Wires and other easily entangled objects on the floor affect operations.	<p>Before cleaning, remove large debris, mops, and any other temporary objects that may distract or obstruct the robot.</p> <p>If the unit misses an area during scanning, it will automatically rescan the area.</p> <p>Avoid interfering with the robots's route.</p> <p>Check if a frontbumper extension is needed (contact your Cleanfix dealer or visit our website for more information).</p>
	Objects such as thresholds and steps cause the robot to slip.	<p>We recommend to close doors in this area and clean separately.</p> <p>Alternatively, draw no-go areas or virtual walls using the app.</p> <p>After cleaning, the device will return to its starting point.</p>
	The device cannot enter and clean certain areas.	<p>Organize the environment to ensure the device can access and clean all areas.</p> <p>Use 2 robots an group them in FieldBots.</p>
	The infrared obstacle avoidance sensor lenses are dirty.	Clean the sensor lens with a clean, soft cloth or remove any blocked objects.
	The floor has deep black areas.	<p>The robot can recognize extremely deep black areas as holes and avoid them.</p> <p>Lighten these areas or contact your Cleanfix dealer.</p>
	The robot is searching for its docking station.	<p>If the docking station has been moved or has no power, the robot starts searching it, while flashing yellow.</p> <p>Check if the docking station has power or has been moved.</p>
Sensor detection errors or sensor is not functioning	The sensor lenses are dirty.	<p>Clean the sensor lens with a clean, soft cloth or remove any blocked objects.</p> <p>If the issue persists, contact your Cleanfix dealer.</p>

Problem	Cause	Solution
Cannot create a map via the app	The robot does not start from the docking station.	Ensure the robot starts cleaning from the docking station.
	The robot cannot complete the final automatic cleaning.	Ensure the robot completes the cleaning cycle without interruptions.
	The robot has no stable internet connection.	Check the internet and app connection
	There's a problem with the LiDAR	Check if the 360° LiDAR-sensor is blocked or broken.
The robot starts automatically in the middle of the night	The scheduled cleaning function is active.	Cancel scheduled cleaning sessions in the app.
	The device continues cleaning from where it stopped.	The robot will return to the docking station when its battery reaches 80%, if cleaning is incomplete.
	The robot has no active internet connection.	The robot has the wrong time zone or has lost the correct regional time. Ensure the robot has internet access. Contact your Cleanfix dealer or FieldBots.

Docking station

Problem	Cause	Solution
 Flashing red	Fan error	Frequent dust collection leads to fan overheating protection or fan malfunction. Allow the fan to cool for 30 minutes.
	Overheating	
	The lid to the dust bag is not closed properly	Ensure that the lid is completely closed and that the robot is properly docked and charging.
 Flashing red	The dust bag is not installed	Ensure that the dust bag is properly installed and fully lower the cardboard handle
	The dust bag not installed properly	Check whether the dust bag is installed; if not, please install the dust bag and make shure to fully push it down.



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