

# User Manual

Manuel d'utilisation

Narwal Freo Z Ultra Robot Vacuum and Mop

Narwal Freo Z Ultra Robot Vacuum and Mop Combo

## Dear users: Chers utilisateurs :

Thank you for purchasing Narwal products. To access comprehensive support from Narwal, you are recommended to read carefully the manual and illustrations before using the product. Please keep the manual properly.

Merci d'avoir acheté les produits Narwal. Pour bénéficier d'un support complet de la part de Narwal, nous vous recommandons de lire attentivement le manuel et les illustrations avant d'utiliser le produit. Veuillez conserver le manuel correctement.

The manual may be updated from time to time based on product updates and user feedback. Please scan the QR code below to browse the official website and view the latest version.

In case of any problem in using the product, please contact Narwal after-sales customer service through the following ways:  
Le manuel peut être mis à jour de temps à autre en fonction des mises à jour du produit et des retours des utilisateurs. Veuillez scanner le code QR ci-dessous pour accéder au site Web officiel et consulter la dernière version.

En cas de problème lors de l'utilisation du produit, veuillez contacter le service client après-vente Narwal par les moyens suivants :

Customer service email:

Email du service client : support.na@global.narwal.com (Amérique du Nord) :

support.na@global.narwal.com (North America)

support.eu@global.narwal.com (Germany)

support.it@global.narwal.com (Italy)

support.jp@global.narwal.com (Japan)

support.fr@global.narwal.com (France)

support.kr@global.narwal.com (South Korea)

support.es@global.narwal.com (Spain)

\*For other countries, please refer to the after-sales contact information provided by your local vendors

\*Pour les autres pays, veuillez vous référer aux informations de contact après-vente fournies par vos revendeurs locaux. Nous vous souhaitons une agréable expérience !

We wish you a pleasant experience!

Manuel d'utilisation électronique !

## Regional Availability and Compatibility

Based on user experience consideration and relevant legal and compliant requirements, Narwal products normally sold by Narwal (and its authorized retailers) are only available for use and after-sales service support in the country or region in which they were originally sold. If a product is shipped to any other countries or regions, you might not be able to use the Narwal App to bind the product or perform relevant operations. We recommend that you purchase the local version of the Narwal product from Narwal or its authorized retailers in order to obtain the best product use and service experience.

For avoidance of doubt, Narwal products sold by Narwal (and its authorized retailers) in the PRC are only available for use and after-sales service support in the PRC (for this purpose, excluding Hong Kong, Macao and Taiwan).

## Regionale Verfügbarkeit und Kompatibilität

Aufgrund der Benutzererfahrungen und entsprechenden Gesetz- und Compliance-Bestimmungen können die von Narwal (einschließlich Narwals autorisierter Händler) offiziell zur Markteinführung gebrachten Narwal Produkte lediglich in den verkauften Ländern/Regionen verwendet und Kundendienst erhalten werden. Wird das Produkt nach anderen Ländern oder Regionen geliefert, kann es sein, dass das Produkt im Narwal-APP nicht verknüpft wird und entsprechende Bedienung nicht durchgeführt wird. Um die beste Benutzungs- sowie Dienstenerfahrung zu bekommen, schlagen wir Ihnen vor, bei Narwal oder Narwals autorisierten Händlern das vor Ort offizielle zur Markteinführung gebrachte Narwal Produkt zu erwerben.

Um Zweifel auszuschließen, kann Narwals Produkt, das von Narwal (einschließlich Narwals autorisierter Händler) im chinesischen Festland zur Markteinführung gebracht wird, nur im chinesischen Festland (nur zu diesem Zweck sind Hong Kong, Macao und Taiwan ausgeschlossen) verwendet und Kundendienst erhalten werden.

## Disponibilità e Compatibilità Regionale

Sulla base di considerazioni relative all'esperienza dell'utente e ai requisiti di conformità legale, i prodotti NARWAL rilasciati ufficialmente da NARWAL (e i distributori autorizzati da NARWAL) possono essere utilizzati e ricevere assistenza post-vendita solo nel Paese/regione in cui sono stati rilasciati. Se il prodotto viene spedito in un altro Paese o in un'altra regione, potrebbe non essere in grado di utilizzare l'APP di NARWAL per vincolarlo il prodotto o eseguire operazioni correlate. Per ottenere la migliore esperienza d'uso e di servizio del prodotto, le consigliamo di acquistare la versione disponibile localmente dei prodotti di NARWAL attraverso NARWAL o i rivenditori autorizzati da NARWAL.

A scanso di equivoci, i prodotti di NARWAL venduti nella Cina continentale da NARWAL (e dai distributori autorizzati da NARWAL) sono limitati all'uso nella Cina continentale e all'ottenimento dell'assistenza post-vendita (solo a questo scopo, esclusi Hong Kong, Macao e Taiwan).

## Disponibilité Régionale et Compatibilité

Dans le but d'assurer une expérience utilisateur optimale et de respecter les exigences légales, les produits Narwal vendus officiellement par Narwal (et ses distributeurs agréés) ne peuvent être utilisés et bénéficier du support après-vente que dans le pays/région de vente. Si le produit est expédié dans un autre pays ou une autre région, il se peut que vous ne puissiez pas connecter le produit à l'application Narwal ou effectuer les opérations correspondantes. Afin de garantir une utilisation optimale du produit et de bénéficier d'un service de qualité, nous vous recommandons d'acheter la version locale du produit Narwal auprès de Narwal ou d'un distributeur agréé local.

Pour dissiper toute équivoque, les produits Narwal vendus par Narwal (et ses distributeurs agréés) en République populaire de Chine sont strictement réservés à une utilisation et à un service après-vente en République populaire de Chine (à cette fin uniquement, cela n'inclut pas Hong Kong, Macao et Taïwan).

## Disponibilidad y compatibilidad regional

Basándose en consideraciones relativas a la experiencia del usuario y en los requisitos de cumplimiento legal pertinentes, los productos Narwal (y los vendedores autorizados de Narwal) lanzados oficialmente solo pueden utilizarse y recibir asistencia posventa en el país/región en el que se lanzan. Si el producto se envía a otros países o regiones, es posible que no pueda utilizar la aplicación Narwal para vincular el producto o realizar operaciones relacionadas. Para obtener la mejor experiencia de producto y servicio, le recomendamos que adquiera el producto Narwal distribuido localmente a Narwal o a los vendedores autorizados de Narwal.

Para evitar cualquier duda, los productos Narwal distribuidos por Narwal (y los vendedores autorizados de Narwal) en China continental están limitados al uso y al servicio de asistencia posventa en China continental (a estos efectos únicamente, quedan excluidos Hong Kong, Macao y Taiwán).

## Региональная доступность и совместимость

Для обеспечения оптимальной работы пользователей и соблюдения соответствующих законов и правил продукты Narwal, официально выпущенные компанией Narwal (и дистрибьюторами, уполномоченными компанией Narwal), могут использоваться и получать послепродажное обслуживание только в стране/регионе, в котором они выпущены. Если продукт поставляется в другие страны или регионы, вы не сможете использовать приложение Narwal Free для привязки и управления продуктом. Чтобы получить наилучшие впечатления от продукта и обслуживания, мы рекомендуем приобрести продукцию Narwal, продаваемую на местах компаний Narwal или дистрибьюторами, уполномоченными компанией Narwal.

Во избежание сомнений, продукция Narwal, выпущенная на территории материкового Китая компаниями Narwal (и дистрибьюторами, уполномоченными компанией Narwal), может использоваться и получать послепродажное обслуживание только на территории материкового Китая (за исключением регионов Гонконг, Макао и Тайвань).

## 지역 가용성 및 호환성

최고의 사용자 경험 보장과 관련 법률 및 규정 준수를 고려하여 나르왈(나르왈 공인 판매 대리점)이 공식적으로 판매하는 나르왈 제품은 해당 판매 국가/지역에서만 사용 가능 및 서비스 지원을 받을 수 있습니다. 제품이 다른 국가 또는 지역으로 배송되는 경우 나르왈 프리에 앱에 제품 바인딩 및 제품 사용이 불가능할 수도 있습니다. 최상의 제품 및 서비스 경험을 위하여 나르왈 또는 해당 지역의 나르왈 공인 판매 대리점에서 제품을 구매하는 것을 권장 드립니다.

중국 본토에서 판매되는 나르왈(및 나르왈 공인 판매 대리점) 제품은 중국 본토(홍콩, 마카오 및 대만 제외)에서만 사용 및 서비스 지원이 가능합니다.

## 地域ごとの可用性及び互換性

ユーザーの使用状況への考慮、及び関連法令法規に基づいて、その国や地域に持ち出しますと、Narwalアプリを使用して当該製品の紐づけを行って、関連操作を実行することができない場合があります。その他の国や地域へ持ち出す場合、製品を便利にご使用頂き、適切なサービスを受けるために、NarwalまたはNarwal公認販売業者から現地で購入されているNarwal製品を購入してください。

疑問や不明瞭な点が生じるのを避けるため、Narwal（及び公認販売業者）が中国大陸で販売しているNarwal製品は、香港、マカオ、台湾地域を除く中国大陸でのみ使用可能で、アフターサービスを受けることができます。

## 區域可用性及相容性

基於使用者體驗考量及相關法令法規要求，壹貳(及壹貳授權經銷商)正式發售的壹貳產品，僅可在該發售國家/地區使用及獲取售後服務支援。如產品被運至其他國家或地區，您可能無法使用壹貳應用程式綁定該產品或執行相關操作。為了獲得最佳的產品使用及服務體驗，我們建議您於壹貳或壹貳授權經銷商處購買當地發售版的壹貳產品。

為免疑義，壹貳(及壹貳授權經銷商)於中國大陸地區發售的壹貳產品，僅限於在中國大陸(僅為該目的，不包括香港、澳門及臺灣)使用及獲取售後服務支援。

## Dostępność i kompatybilność regionalna

Aby zapewnić optymalne wrażenia użytkownika i zgodność z odpowiednimi przepisami prawa i regulacjami, produkty oficjalnie sprzedawane przez Narwal (i dystrybutorów autoryzowanych przez Narwal) mogą być używane i uzyskać obsługę posprzedażową tylko w kraju/regionie, w którym zostały wydane. Jeśli produkt zostanie wysłany do innego kraju lub regionu, może nie być możliwe korzystanie z aplikacji Narwal Free w celu powiązania i obsługi produktu. Aby uzyskać najlepszą jakość produktu i obsługi, zalecamy zakup produktów Narwal sprzedawanych lokalnie przez Narwal lub dystrybutorów autoryzowanych przez Narwal.

W celu uniknięcia wątpliwości, produkty Narwal sprzedawane w Chinach kontynentalnych przez firmę Narwal (i dystrybutorów autoryzowanych przez Narwal) mogą być używane i objęte obsługą posprzedażową wyłącznie w Chinach kontynentalnych (z wyłączeniem regionów Hongkongu, Makau i Tajwanu).

### Bölgesel Kullanılabilirlik ve Uyumluluk

Ana bayi kullanıcı deneyimini ve ilgili yasa ve düzenlemelere uyumu sağlamak için satış sonrası hizmet ve kullanım, Narwal'ın ürünlerini resmi olarak piyasaya sürdüğü ülke veya bölgeyle (veya Narwal tarafından yetkilendirilen distribütörlerle) sınırlıdır. Ürün başka ülke veya bölgelere gönderilirse Narwal Free Uygulaması kullanılarak bağlanıp çalıştırılması mümkün olmayabilir. En iyi ürün ve hizmet deneyimi için Narwal ürünlerini bölgenizdeki yetkili distribütör veya perakendecilerden satın almanız öneririz.

Çin Anakarasında dağıtılan ve satış sonrası hizmet için erişilen Narwal ürünlerinin, Hong Kong, Makao ve Tayvan hariç olmak üzere, yetkili distribütörler ve Çin Anakarası ile sınırlı olduğu açıkça belirtiliyor.

## Tính Khả Dụng Tại Khu Vực và Độ Tương Thích

Để đảm bảo trải nghiệm người dùng tốt nhất cũng như tuân thủ luật pháp và quy định hiện hành, các sản phẩm của Narwal chính thức phát hành bởi Narwal (và các nhà phân phối do Narwal ủy quyền) chỉ có thể sử dụng và nhận dịch vụ sau bán hàng tại quốc gia/khu vực nơi sản phẩm được bán ra. Nếu sản phẩm được vận chuyển đến các quốc gia hoặc khu vực khác, quy vị có thể không thể sử dụng với Narwal Free do liên kết và vận hành sản phẩm. Để có được trải nghiệm sản phẩm và dịch vụ tốt nhất, chúng tôi khuyến nghị quý vị mua các sản phẩm của Narwal được bán bởi Narwal hoặc các nhà phân phối do Narwal ủy quyền tại địa phương.

Để tránh nghi ngờ, các sản phẩm của Narwal được Narwal (và các nhà phân phối do Narwal ủy quyền) phát hành tại Trung Quốc Đại Lục chỉ có thể sử dụng và nhận dịch vụ sau bán hàng ngay trong Trung Quốc Đại Lục (không bao gồm các khu vực Hồng Kông, Ma Cao và Đài Loan).

ความหมายของคำว่า "ความจำเป็น" ว่าเป็นภาวะอันฉุกเฉิน

[illegible]

זמינות ותאימות אזורית

כדי להביט חווית משתמש אופטימלית תוך כדי ציות לחוקים ולתקנות הרלוונטיים, ניתן להשתמש במצורי נרואל שהופצו באופן רשמי על ידי נרואל (ומפיצים המורשים על ידי נרואל) ולקבל שירות לאחר המכירה רק במדינה/אזור שבה הם הופצו. אם המוצר נשלח למדינות או אזורים אחרים, ייתכן שלא תוכל להשתמש באפליקציית נרואל פריאוד כדי לקשר ולהפעיל את המוצר.

כדי לקבל את חוות המוצר והשירות הטובים ביותר, אנו ממליצים לרכוש מוצרי נרנאל הנמכרים באופן מקומי על ידי נרנאל או מפיצים המורשים על ידי נרנאל. למען הטר ספק, ניתן להשתמש במוצרי נרנאל שהופצו בבשת סין על ידי נרנאל (מפיצים המורשים על ידי נרנאל) ולקבל שירות לאחר המכירה רק בבשת סין (או כלל באזורי הונג קונג, מקאו וטייוואן).

### Disponibilité Régionale et Compatibilité

Pour garantir une expérience utilisateur optimale et se conformer aux lois et réglementations applicables, les produits Narwal officiellement commercialisés par Narwal (et les distributeurs autorisés par Narwal) ne peuvent être utilisés et bénéficier d'un service après-vente que dans le pays ou la région où ils sont commercialisés. Si le produit est expédié vers d'autres pays ou régions, il se peut que vous ne puissiez pas utiliser l'application Narwal Free ou pour applicables et faire fonctionner le produit. Pour obtenir la meilleure expérience produit et service, nous vous recommandons d'acheter des produits Narwal vendus localement par Narwal ou par des distributeurs autorisés par Narwal.

Pour éviter toute confusion, les produits Narwal commercialisés en Chine continentale par Narwal (et les distributeurs autorisés par Narwal) ne peuvent être utilisés et bénéficier d'un service après-vente qu'en Chine continentale (à l'exclusion des régions de Hong Kong, de Macao et de Taiwan).



WWW.NARWAL.COM



Electronic version of the user manual  
Elektronische Version des Benutzerhandbuchs  
Versione elettronica del manuale d'uso  
Version électronique du Manuel d'utilisateur  
Versión electrónica del manual de usuario  
Электронная версия руководства пользователя  
전자 설명서  
電子說明書  
電子說明書  
Wersja elektroniczna instrukcji obsługi  
Kullanım kılavuzunun elektronik versiyonu  
Bản điện tử sách hướng dẫn sử dụng  
ගුවේදි නිර්දේශන පොත  
הסבר אלקטרוני למדריך  
Version électronique du Manuel d'utilisateur

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# 1. Product At A Glance

## 1.1 Check List

### Main parts

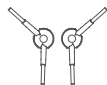


Robot × 1  
(including dust collection  
box × 1, mopping module × 2)

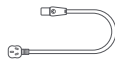


Base station × 1  
(including cleaning base × 1, cleaning  
tray × 1, clean water tank × 1, dirty water  
tank × 1, base station dust bag × 1)

### Accessories



Side brush × 2  
(Accessory)



Base station power cord × 1



Floor detergent × 1  
(Accessory)



Base station dust bag × 1  
(Accessory)



Baseboard cleaning module × 1  
(Accessory)



Baseboard rag × 3  
(Accessory)



Extension ramp × 1



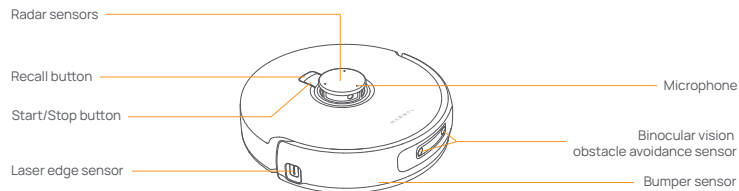
Replaceable insert bin × 1  
(Accessory)



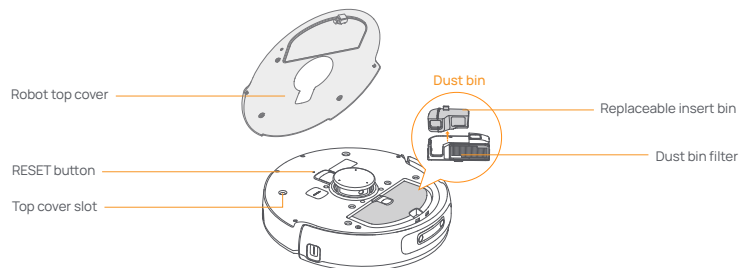
Dust bin filter × 1  
(Accessory)

## 1.2 Robot

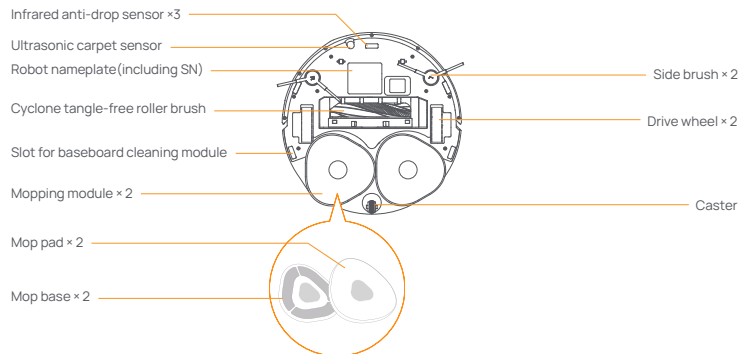
### Front (top cover closed)



### Front (top cover open)

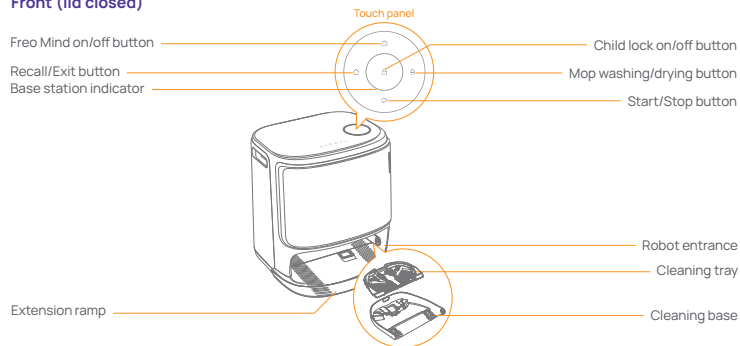


### Robot bottom

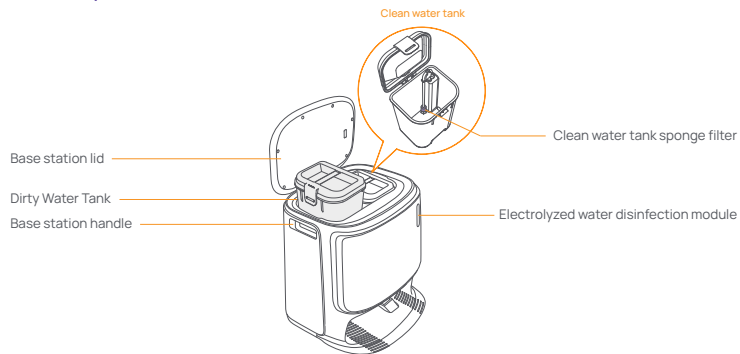


### 1.3 Base station

#### Front (lid closed)



#### Front (lid open)



#### Back



### 1.4 Buttons and indicators

#### Robot buttons

| Button     | Action                                          | Function                                                |
|------------|-------------------------------------------------|---------------------------------------------------------|
| Start/Stop | Short press<br>Press and hold for 2s            | Start/pause/resume the current task<br>Power on/off     |
| Recall     | Short press<br>Short press                      | Return to the base station<br>Enter the pairing mode    |
| Reset      | Press and hold for 5s<br>Press and hold for 10s | Unbind the account and clear user data<br>Factory reset |

#### Base station buttons

| Button | Action                                             | Function                                                           |
|--------|----------------------------------------------------|--------------------------------------------------------------------|
|        | Short press<br>Press and hold for 2s during a task | Start/pause/resume the current task<br>End all tasks               |
|        | Short press                                        | Recall/Exit                                                        |
|        | Press and hold for 2s<br>Press and hold for 2s     | Turn on the Child Lock<br>Turn off the Child Lock                  |
|        | Short press                                        | Turn on/off Freo Mind                                              |
|        | Short press<br>Press and hold for 10s              | Start/cancel mop washing and drying<br>Refill/discharge self-check |
|        | Press and hold for 2s                              | Enter/exit the pairing mode                                        |
|        | Press and hold for 2s                              | Restart mapping                                                    |

#### Robot & base station indicators

| Indicator              | Robot indicator | Base Station indicator | Meaning                                                                           |
|------------------------|-----------------|------------------------|-----------------------------------------------------------------------------------|
| Steady white           | ✓               | ✓                      | Standby mode                                                                      |
| Breathing white        | ✓               | ✓                      | Standby                                                                           |
| Dynamic spinning blue  | ✓               | ✓                      | Task underway<br>Device startup (robot)                                           |
| Dynamic breathing blue | ✓               | ✓                      | Task paused                                                                       |
| Red                    | ✓               | ✓                      | Error (flashing)<br>No communication (breathing red)                              |
| Breathing orange       | ✓               | ✓                      | Pairing<br>Updating<br>Checking the automatic water exchange<br>Power-saving mode |
| Colorful meteor light  | ✗               | ✓                      | Wake for power on<br>Wake from a dark screen                                      |

## 2. Get Ready Before Use

### Install the side brushes

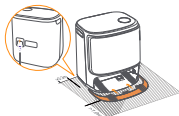
Press side brushes into the slots as indicated by color until they click into place.



### Place the base station

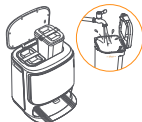
- Plug in the power cord in the back of the base station.
- Put the extension ramp on the floor and push it into the bottom of the base station until it clicks into place.
- Leave an open space of at least 1 meter long in front of the base station for the robot to enter and leave the base station.

Tips: DO NOT put the base station close to a heat source.



### Add clean water

- Open the clean water tank and fill it with clean water (DO NOT exceed the MAX water level mark).
- Close the clean water tank cap and put the clean water tank back into the base station.

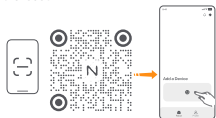


### Connect and bind the robot in the App

Download the Narwal App and follow the instructions for connecting and binding the robot.

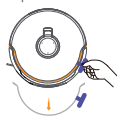
Note:

1. In the App device page, tap "Settings" > "Device" and then press hold the "Restart Robot" for 10s to turn on/off the power-saving mode.
- Download the Narwal App and follow the instructions for connecting and binding the robot.



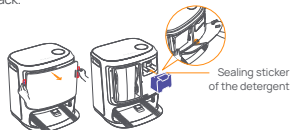
### Remove the anti-collision foam

- Lift the top cover sticker to open the robot top cover and remove the anti-collision foam.
- Close the robot's top cover.



### Install the floor detergent

- Remove the base station front cover, face the cap of the floor detergent to the base station (DO NOT remove the cap; make sure that the sealing sticker is removed), and horizontally push it into the detergent bin.
- When the detergent is in place, put the base station front cover back.



### Boot settings

Push the robot into the base station with the camera facing outward. The base station will beep once to indicate that charging is successful and the robot will switch itself on and broadcast the message.



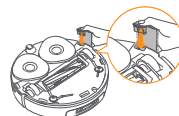
### Replace the base station dust bag

- Remove the base station front cover.
- Pull the purple ring in the direction of the arrow to pull out and discard the dust bag.
- Insert the new dust bag into the slot in the indicated direction until it hits the bottom.
- Put back the base station front cover.



### Install the baseboard cleaning module

Turn the robot upside down, align the baseboard cleaning module with the slot, and press it until it clicks into place.



### How to Maintain the Baseboard Cleaning Module

- Tear off the baseboard rag in the indicated direction, align the new baseboard rag with the hook-and-loop fastener, and press it until it is firmly fixed.
- Tear off the baseboard rag, rinse it with clean water, and reuse it after air drying.



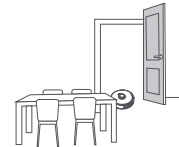
## 3. How to Use

Before using the robot, please make sure you have finished the installation and base station setup in Chapter 2.

### 3.1 Organize the home environment



A. Put away the clutter on the floor, e.g. scattered cables, rags, slippers, clothes, and books, slippers, clothes, and books.



B. Open the doors of the rooms to be cleaned and arrange the furniture to leave as much space as possible for cleaning.



C. Leave other doors closed and install the fence to prevent the robot from entering elevated or low areas.



E. DO NOT stand in front of the robot, on the threshold, or in narrow aisles to avoid omission.



D. The maximum obstacle crossing height is 20mm and the robot cannot enter rooms with a threshold height of over 20mm. You can purchase Narwal Threshold Ramp to help the robot climb over obstacles.

### 3.2 Mapping

Before cleaning a new home, the robot needs to explore the environment and create a map. Before first-time cleaning, you can trigger mapping by short pressing the Start/Stop button on the base station or tapping "Start Mapping" in the App.

Note:

1. Once a map is created, it can be edited in the App.
2. Please do not move the base station after a map is created, or you have to restart mapping. If large furniture in your home is rearranged, it is recommended to create a new map.

3.3 Cleaning

Before a cleaning task, please make sure that the robot has a proper battery level, which can be viewed in the App.

Select cleaning modes

The product comes with four built-in cleaning modes: Vacuum, Mop, Vacuum and Mop, and Vacuum then Mop. You can select and adjust parameters like cleaning cycles, suction, and mop humidity for each mode in the App.

Set Freo Mind

The Freo Mind is an intelligent cleaning assistant. When the Freo Mind is enabled, the robot can:

- set cleaning parameters based on the environmental data collected by sensors;
- enhance edge-to-edge cleaning.

You can enable the Freo Mind in two ways:

- Select the Freo Mind in the cleaning modes in the App;
- Short press the  Freo Mind On/Off button on the base station. When the indicator turns on, it means the Freo Mind is on.

Start cleaning task

You can start the robot for cleaning in three ways:

- Tap  Start Cleaning button in the App;
- Short press the  Start/Stop button on the robot to start cleaning. The robot will activate the Vacuum Mode by default;
- Short press the  Start/Stop button on the base station to start cleaning. The robot will activate the Vacuum and Mop Mode by default;

Note: You can adjust the cleaning mode and set more cleaning parameters in the App.

Pause/resume the current task

You can pause/resume the current task in three ways:

- Tap  Pause/  Resume button in the App;
- Short press the  Start/Stop button on the robot;
- Short press the  Start/Stop button on the base station.

Mop washing

If the robot is set for multiple mopping runs or the area for cleaning is large, the robot will automatically return to the base station for mop washing.

The number of mopping runs and returns can be modified in the App before cleaning starts, and cannot be modified during the current cleaning task.

End current task

The robot will navigate itself back to the base station when cleaning ends. You can view the current cleaning report in the App. You can manually end the task in the following three ways:

- Press and hold  Finish button for 2s in the App;
- Short press the  Home button on the robot;
- Short press the  Recall button or long press and hold the  Start/Stop button on the base station for 2s.

Drying and disinfection

After the last mopping run, the robot will return to the base station for mop washing and drying. The drying time can be modified in the App.

You can also start mop washing and drying manually in the following two ways:

- Tap  Mop Washing & Drying button in the App;
- Short press  Mop Washing & Drying button on the base station.

4. Parameters

4.1 Specifications

| Robot                                 | Base Station                                                                                                                                            |
|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dimensions: 355*350*109.6 mm          | Dimensions: 430.8*462*388.3 mm                                                                                                                          |
| Weight: 4.5 kg                        | Weight: 12.3 kg                                                                                                                                         |
| Battery: ≥5000 mAh                    | Rated input: AC 220-240V 50-60Hz<br>AC 100V-127V 50-60Hz                                                                                                |
| Rated voltage: 14.4V ---              | Rated output: 20V --- 2.0A                                                                                                                              |
| Rated power: 65W                      | Rated power:<br>Charging: 45W<br>Water heating: 1100W( AC 220-240V, 50-60Hz)<br>850-1250W( AC 100-127V, 50-60Hz)<br>Dust Collection: 450W<br>Drying:65W |
| Wi-Fi                                 |                                                                                                                                                         |
| Protocol: IEEE 802.11b/g/n            |                                                                                                                                                         |
| Frequency Range: 2412~2472MHz         |                                                                                                                                                         |
| Max. Transmitter Power (EIRP): ≤20dBm |                                                                                                                                                         |
|                                       |                                                                                                                                                         |
| Bluetooth                             | Bluetooth                                                                                                                                               |
| Protocol: BLE 5.0                     | Protocol: BLE 5.0                                                                                                                                       |
| Frequency Range: 2402-2480MHz         | Frequency Range: 2402-2480MHz                                                                                                                           |
| Max. Transmitter Power (EIRP): ≤10dBm | Max. Transmitter Power (EIRP): ≤10dBm                                                                                                                   |

| Battery (Robot)                             |                             |
|---------------------------------------------|-----------------------------|
| Battery Pack Quantity Per Pack:             | 1 pcs                       |
| Battery Type:                               | Rechargeable Li-Ion Battery |
| Nominal Voltage:                            | 14.4V ---                   |
| Quantity of Battery Cells Per Battery Pack: | 8 pcs                       |
| Rated Capacity, Rated Energy:               | 5000mAh, 72Wh               |

**Manufacturer/Fabricant : Yunjing Intelligence Innovation (Shenzhen) Co., Ltd.**

Address/Adresse : Room A2901, Yunzhongcheng, Building 1, Vanke Yuncheng VI, Dashi 2nd Road, Xili  
Community, Xili Street, Nanshan District, Shenzhen, Guangdong, China

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