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 **LG**  
Life's Good

Quietly but Thoroughly at Work  
**HOM-BOT**  
SQUARE



LG Robotic Vacuum Cleaner



## LG introduces the new era of smart cleaning like you've never seen before.

With its new square design and LG's unique Corner Master, and Dual Eye 2.0™ system, HOM-BOT SQUARE reaches corner closer and makes your cleaning smarter and more convenient.

LG HOM-BOT SQUARE,  
the next generation of smart cleaning.



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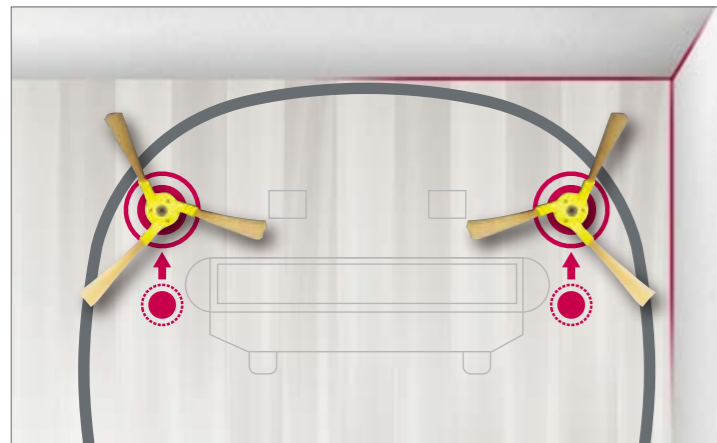
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# Corner Master

Corner Master enables thoroughly corner cleaning due to square shaped design and 1.5cm longer side brushes that reach corners and walls closer than round shaped robotic vacuum cleaners.

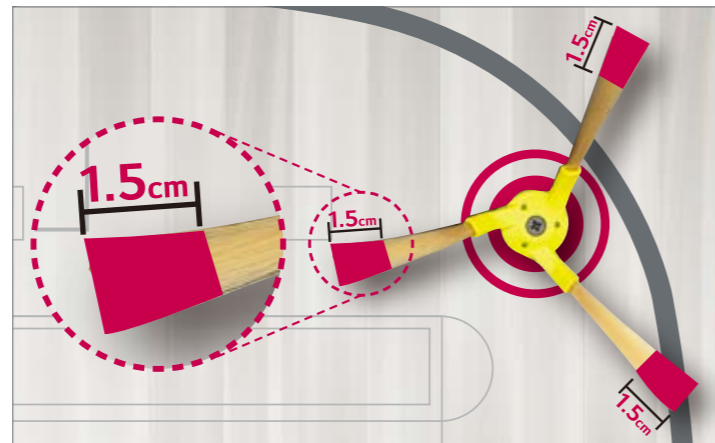
## Square Design

Because of the square design, the side brushes are placed closer towards the front.



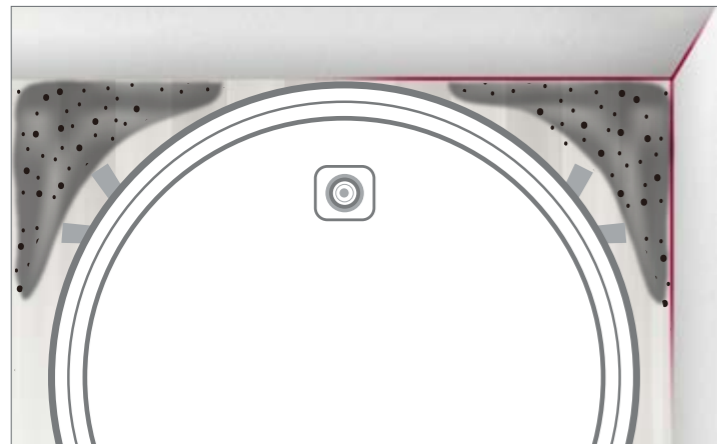
## Longer Side Brushes

HOM-BOT SQUARE thoroughly cleans corners due to 1.5cm longer side brushes.



## Smarter Corner Cleaning

HOM-BOT SQUARE's corner cleaning performance has improved by 89% and its cleaning efficiency has been enhanced to 94%.



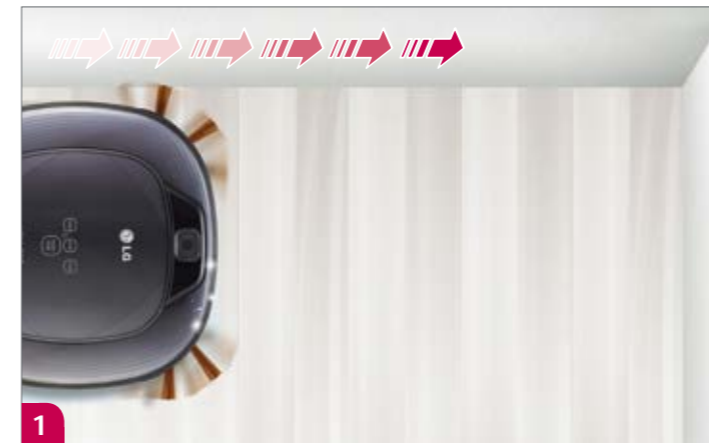
LG Conventional



HOM-BOT SQUARE

## Corner Detecting System

HOM-BOT SQUARE smoothly follows the wall and cleverly detects the corner without bumping.



1

Thanks to the flat side shape of HOM-BOT SQUARE, it is in close proximity to the wall.



2

Operating corner detection system, it can clean 89% more efficiently than others.



3

Backward cleaning is carried out to finish thoroughly cleaning at the corner.



4

It will continue to clean the next section without collision.

# Smart Cleaning


With LG's unique Corner Master, and Dual Eye 2.0™ system, HOM-BOT SQUARE's cleaning performance has become smarter and more precise.

## Upgraded Dual Eye 2.0™


**LG HOM-BOT SQUARE has adopted the new generation of upper camera, II-SLAM(Illumination Invariant based Simultaneous Localization and Mapping)**

Conventional robotic vacuums can easily wander in the dark because it is hard to take pictures without light. With its II-SLAM technology, HOM-BOT SQUARE's Dual Eye 2.0™ has been upgraded and now automatically calculates the intensity of light and scans the ceiling. Whether it is bright or dark, Dual Eye 2.0™ can take clear pictures of the room and minimize wandering.

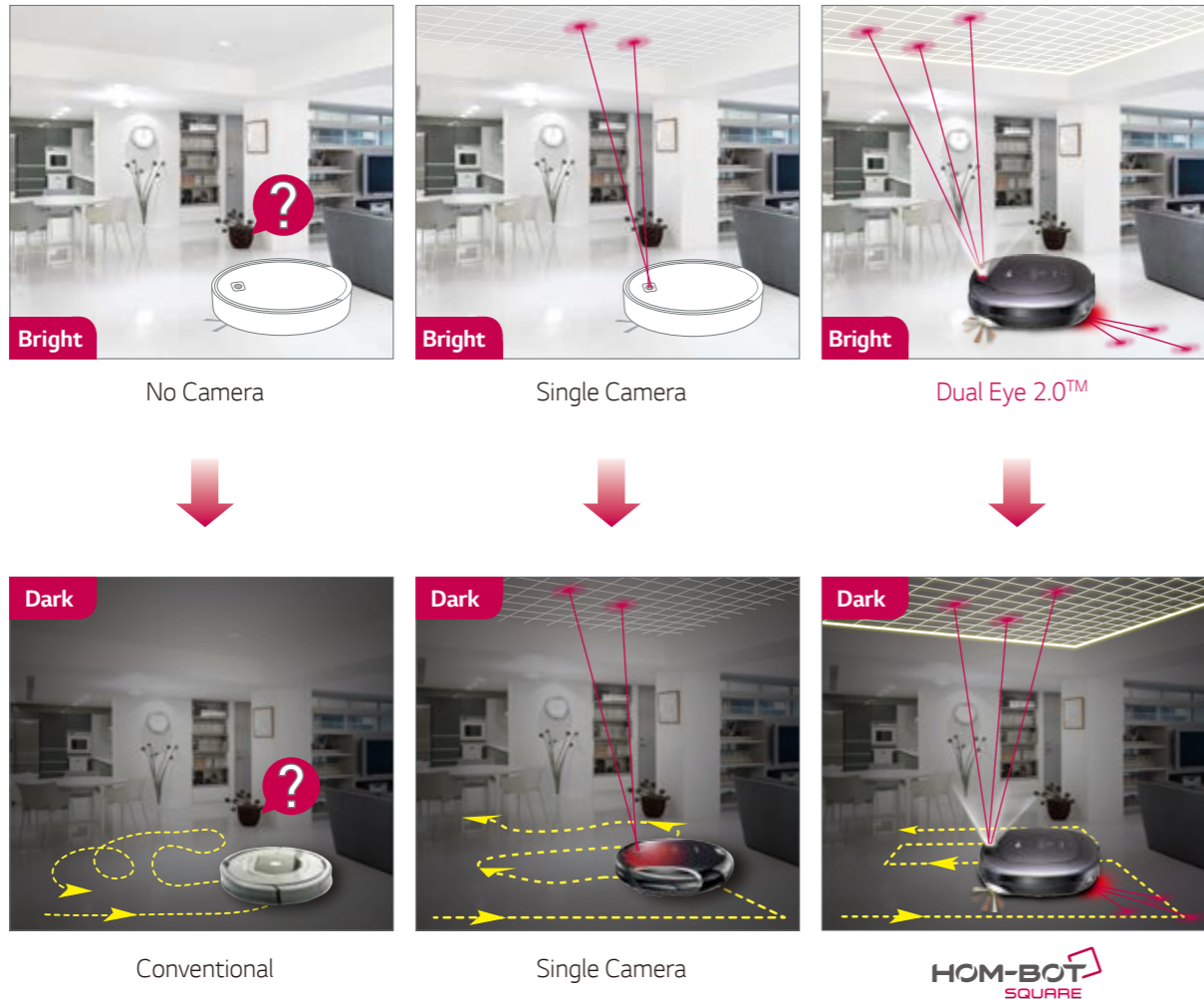
**World First and Unique Dual Eye system**



**Upper Camera**  
(CV-SLAM Ceiling Vision based Simultaneous Localization and Mapping). Using a camera which takes 30 images per second, it scans ceiling surfaces. Continuous comparison of these sequential images generates simultaneous localization and mapping information.



**Lower Camera**  
(OFS: Optical Flow Sensor) An optical sensor reads the floor for measuring of moving distance and recognizes even the slight changes of floor.



## Mapping Resume Function

Using Mapping Resume Function, HOM-BOT SQUARE finds the location by itself even after you pick it up and move it to somewhere else.

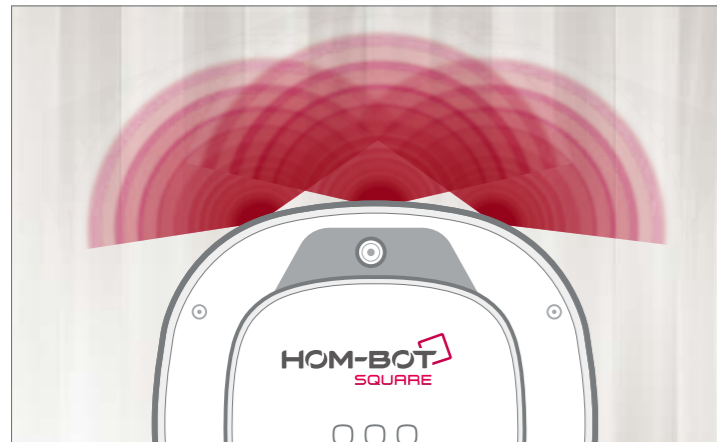


# Collision-Safe Cleaning

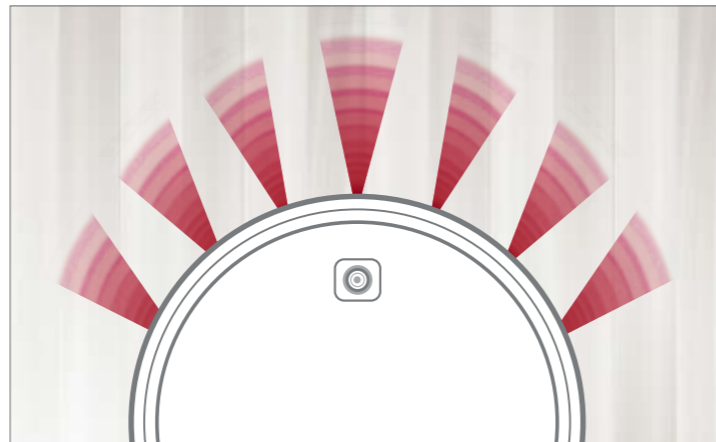
With LG HOM-BOT SQUARE, you do not need to worry anymore about your precious belongings being scratched.

## Digital Bumper

Multiple sensors recognize obstacles around and minimize collision. LG HOM-BOT SQUARE knows how far the obstacles are ahead. Others are "bump to know". Digital Bumper avoids obstacles and minimizes collisions.



Ultrasonic sensor of HOM-BOT SQUARE senses wider and more precisely. It can even sense glass and transparent objects.



Conventional robotic vacuums using only Infrared sensor, have a narrow sensing area.



## Learning Function

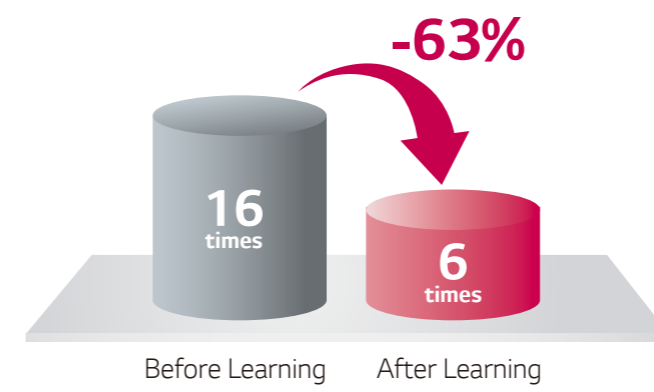
With its Learning Function, HOM-BOT SQUARE memorizes the location of the obstacles and cliffs of your room minimizing bumping.



HOM-BOT SQUARE



Conventional



\*Based on LG internal test results.

## Operating conditions

- HOM-BOT SQUARE remembers the location of obstacles and cliffs during the cleaning.
- It remembers the written map into memory after cleaning.
- It avoids the obstacles and dangerous area by adjusting the obstacle detection sensor sensitivity or by reducing the speed.

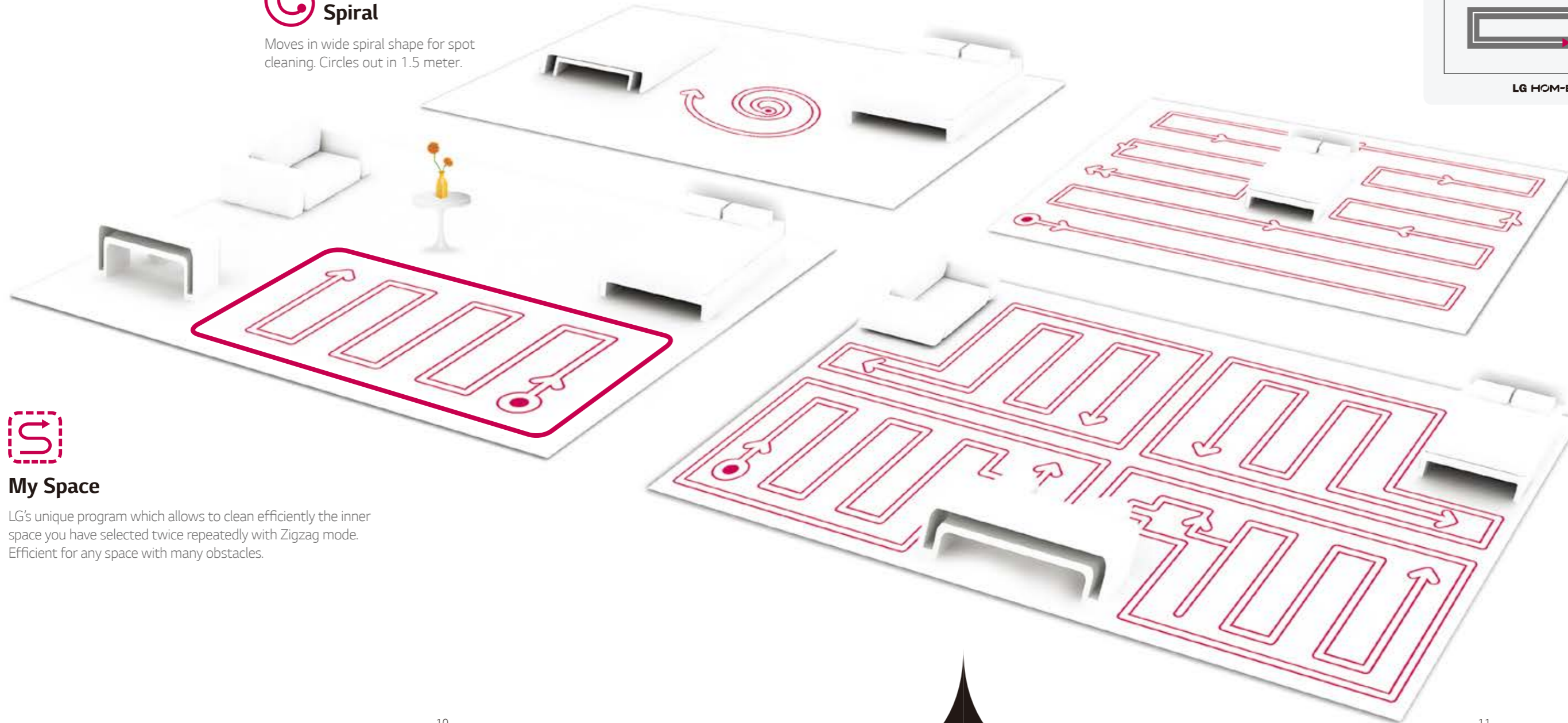
# Thorough Cleaning

Four full auto and one manual cleaning modes enable most efficient cleaning according to circumstances.



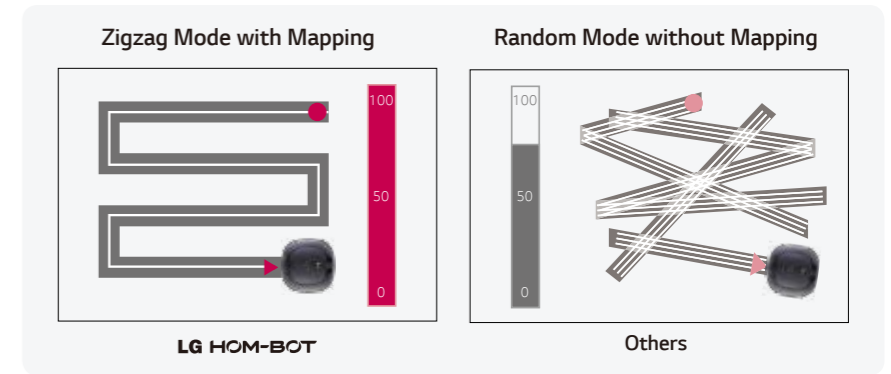
**Spiral**

Moves in wide spiral shape for spot cleaning. Circles out in 1.5 meter.



**My Space**

LG's unique program which allows to clean efficiently the inner space you have selected twice repeatedly with Zigzag mode. Efficient for any space with many obstacles.



**Zigzag mode**

Moving back and forth until it meets an obstacle in the way. Efficient for large area with few obstacles.



**Cell by Cell**

A more sophisticated navigation by finishing a cell in Zigzag mode and then moving onto the next cell. Efficient for complicated areas with obstacles.

# Special Cleaning Mode

LG HOM-BOT SQUARE uses various cleaning programs to satisfy your needs.

## Turbo Mode

Turbo mode maximizes the RPM for brush and suction motors in order to enhance cleaning performance.



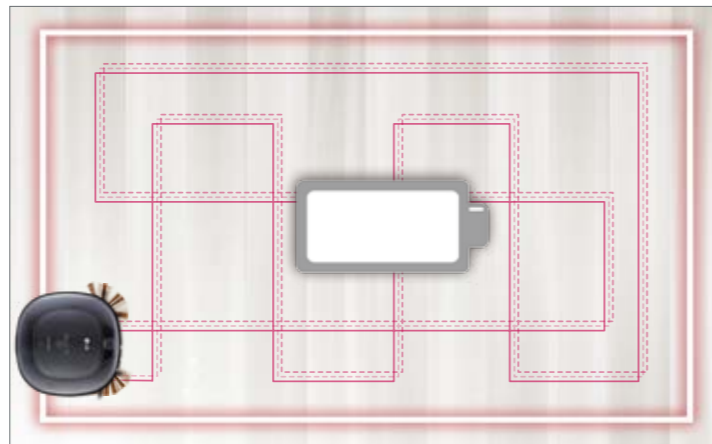
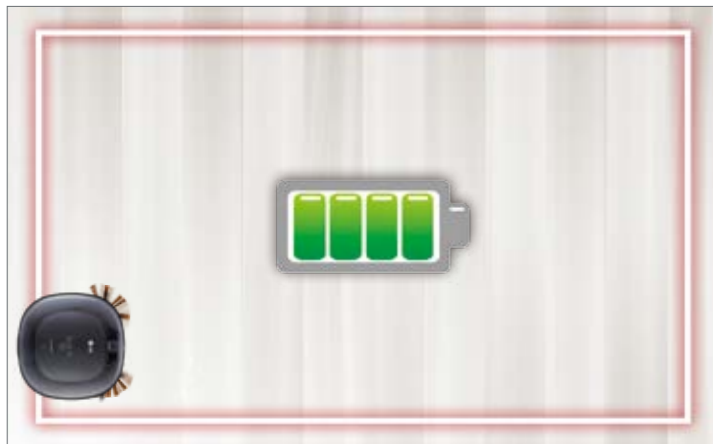
General Mode



Turbo Mode

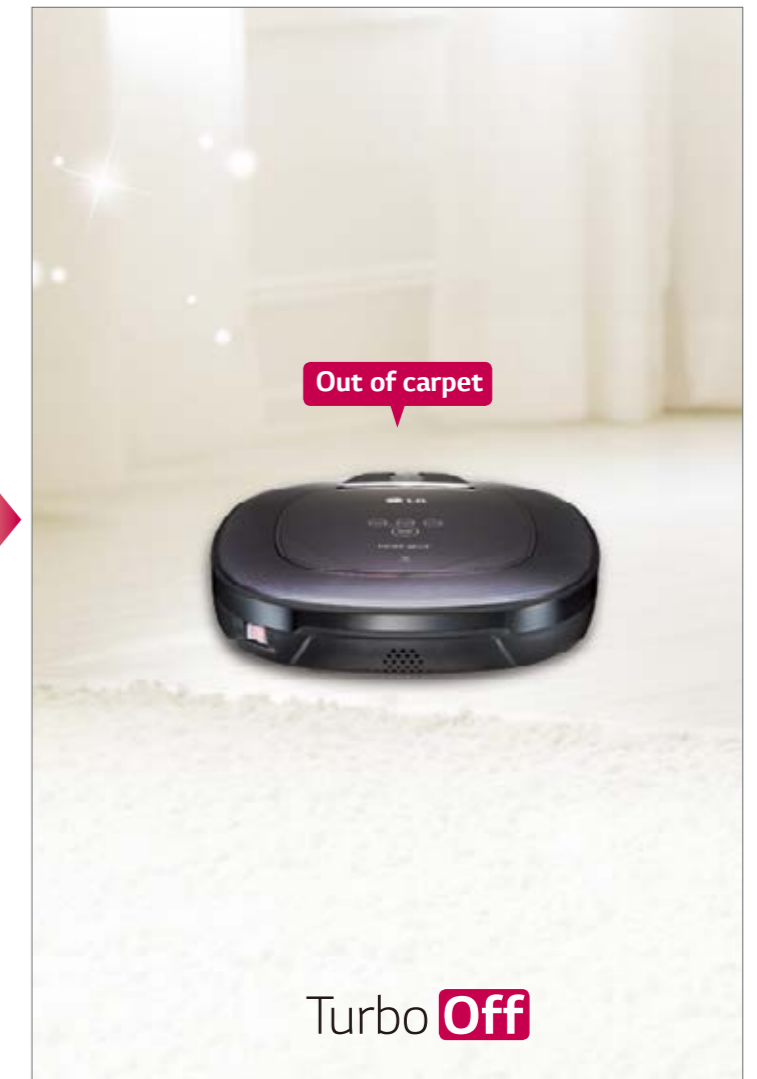
## Repeat Mode

For extensive cleaning, HOM-BOT SQUARE repeats cleaning until the battery runs out and returns to its home station.



## Smart Turbo Mode

Smart Turbo mode automatically converts its cleaning mode to Turbo mode when HOM-BOT SQUARE senses carpet floor. After cleaning carpet, it automatically turns off the Turbo mode.



# Convenient Cleaning

With LG HOM-BOT SQUARE, cleaning becomes easy and convenient.

## Easy Out Dust Bin

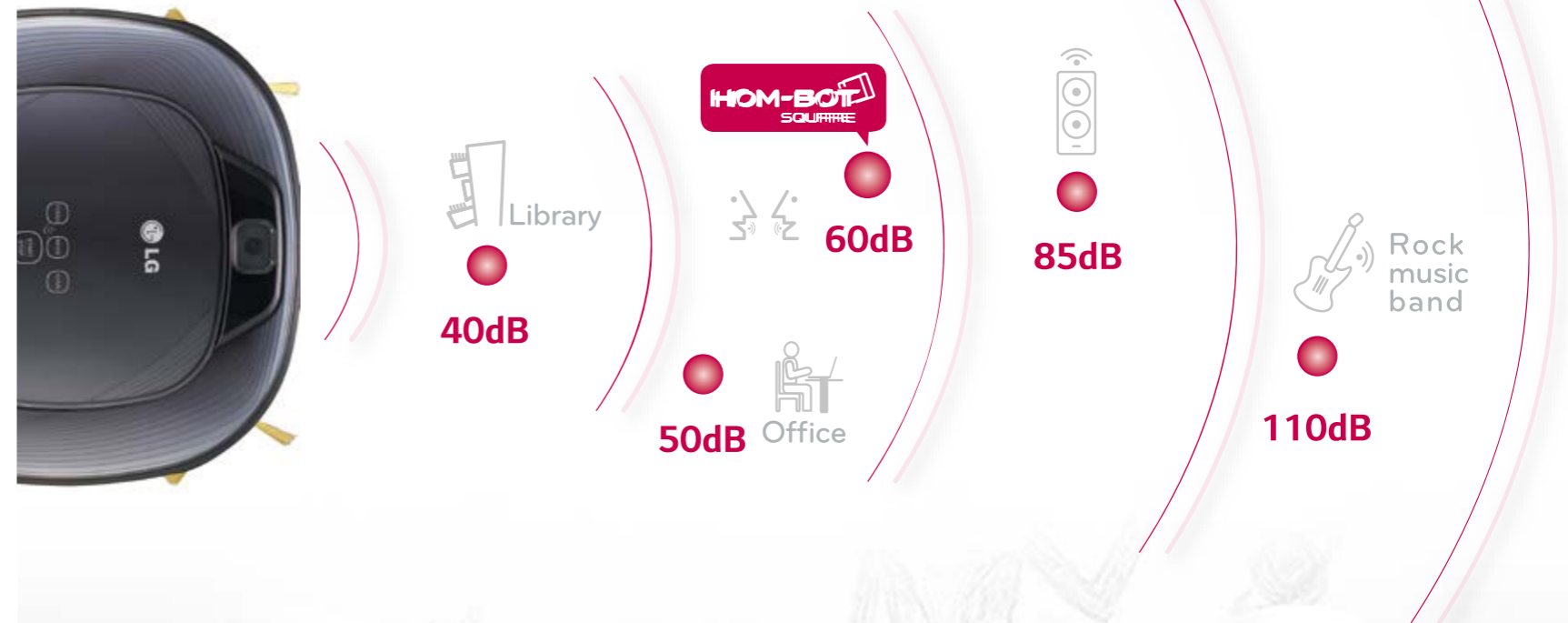
HOM-BOT SQUARE's dust bin is designed to take out from the top. Easier to use than the sliding type dust bins of conventional robotic vacuums. This minimizes hassles of residual dust around the dust bin slot. Also, HOM-BOT SQUARE has a bigger capacity (0.6L) for more dust intake that makes less effort to dump the dust bin. Pull up type LG dust bin prevents flying dust when emptying. Therefore you can enjoy healthier and more convenient cleaning.



HOM-BOT  
SQUARE

## Low Noise

Low noise of 60dB(A), cleaning doesn't annoy you at home. HOM-BOT SQUARE won't bother you in everyday life.





# Enrich your Life

LG HOM-BOT SQUARE cares in details and offers you various functions which enrich your life.

## Smart Diagnosis

HOM-BOT SQUARE informs an appropriate measure with voice by self-diagnosing abnormalities of main parts.



## Wider HEPA Filter

The Bigger HEPA 11 filter traps harmful dust particles and helps HOM-BOT SQUARE cleaning system release back clean air.



## 89mm Slim Design

With its slim design, HOM-BOT SQUARE travels without difficulty under most furniture.



## Longer Lasting Battery

HOM-BOT SQUARE's Li-Ion Polymer battery has longer cycle life than ordinary Ni-MH battery. It maintains over 90% of its designed capacity even after 300 cycles of recharge, so you can save your money by replacing batteries less often.



## Bigger Mop

2.5 times larger, HOM-BOT SQUARE bigger mop makes your home spotless.



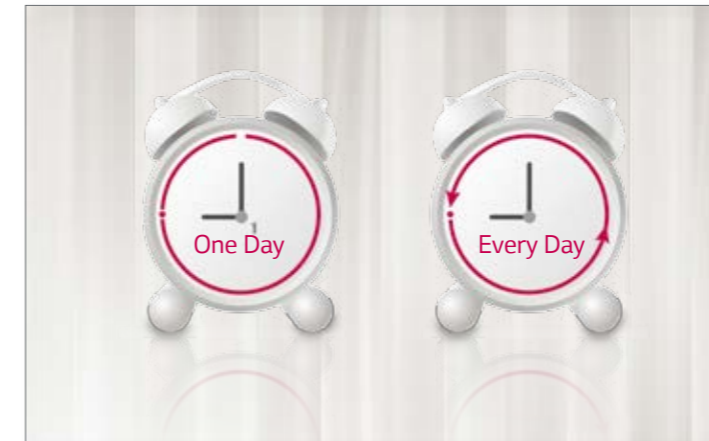
## Slide in Mop

Slide in Mop makes you more easy and convenient to replace mop.



## Scheduled Cleaning

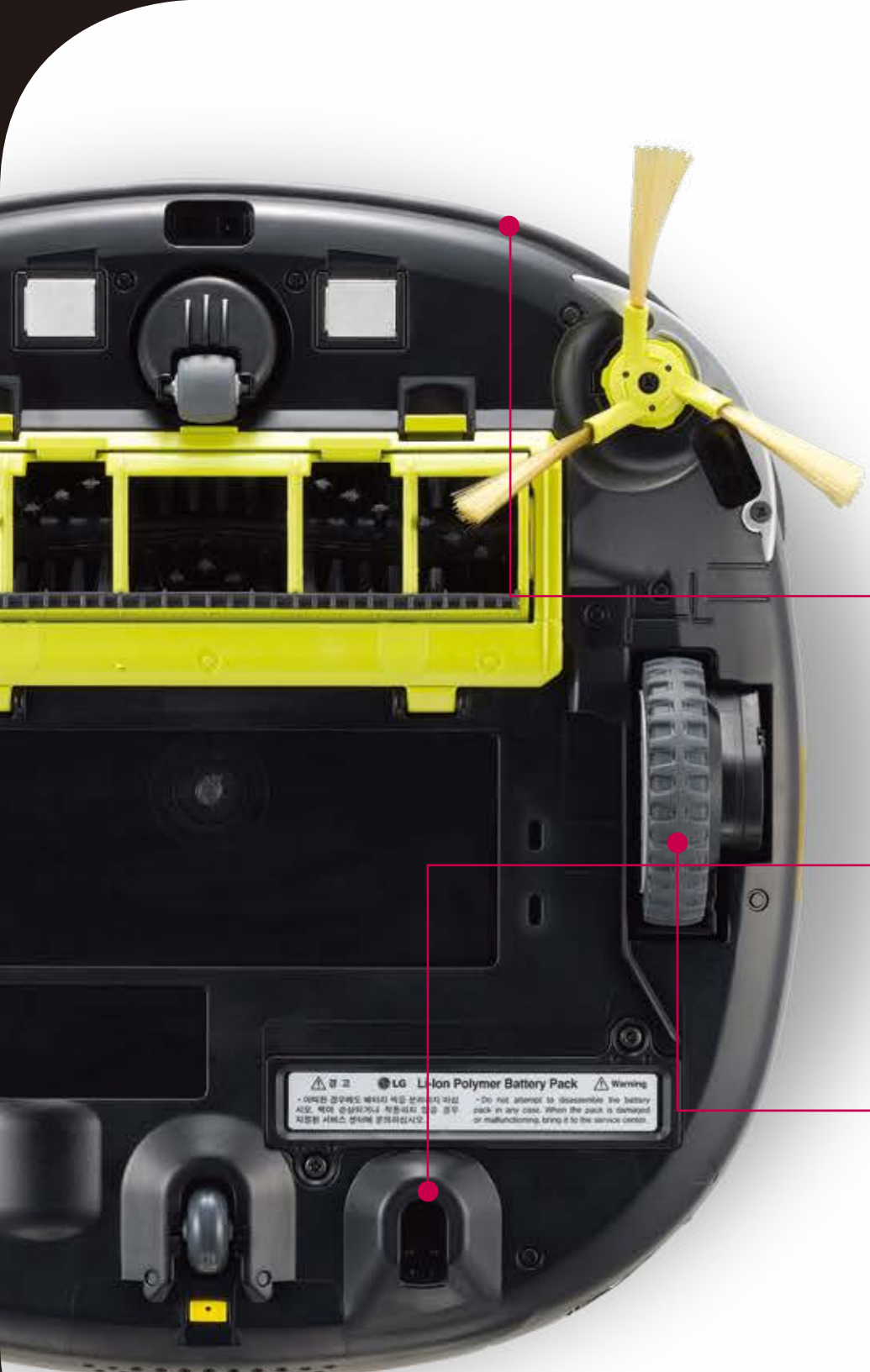
With the scheduler, HOM-BOT SQUARE will clean the house at your desired time.



## Voice guidance

With more than 90 voice alerts, it notifies HOM-BOT SQUARE's current status and movement.





Quietly but Thoroughly at Work

# HOM-BOT SQUARE

**Digital Bumper**  
Combining multiple sensors, it reduces bumping and prevents falling off the edge.

**Lower Camera**  
Reads the pattern of the floor and smartly clean the dark areas such as under the furniture.

**Big Wheel & Powerful Motor**  
Able to climb up carpet with ease with upgraded wheels and powerful motor.



**Upper Camera**  
Creates a map of the house to plan efficient way for cleaning even in the dark.

**Turbo Cleaning**  
Cleverly detects the surface change and automatically switches to stronger cleaning mode.

**Easy Out Dust Bin**  
Pulling dust bin upward & no dust flying.



## HOM-BOT SQUARE

### VR6270LVMB

- \* Type : Robotic Vacuum Cleaner
- \* Dust Collection : Bagless
- \* Cleaning Time : 100 minutes
- \* Battery Type : LiPB
- \* Noise level (IEC) : 60 dB
- \* Size (WxDxH) : 340x340x89
- \* Corner Master / Carpet Master / Digital Bumper / Mapping Resume / Learning Function / Zig Zag Mode / Spiral Mode / Cell by Cell Mode / Repeat Mode / My Space / Turbo Cleaning / Smart Turbo Cleaning / Easy Out Dust Bin / Slide in Mop / 90 WORDS VOICE INFORMATION / Smart Diagnosis



▣ Mirror Black

▣ Ruby Red

▣ Italian Red

▣ Titan Silver

## SPECIFICATIONS

| Pet Name                    | HOM-BOT Square™<br>Dual Eye Carpet | HOM-BOT Square™<br>Dual Eye Mop | HOM-BOT Square™<br>Dual Eye | HOM-BOT Square™<br>Lite |
|-----------------------------|------------------------------------|---------------------------------|-----------------------------|-------------------------|
| Mapping System              | Dual Eye                           | Dual Eye                        | Dual Eye                    | Single Eye              |
| Image                       |                                    |                                 |                             |                         |
| Model Name                  | VR6270LVMB                         | VR62701LVM                      | VR62601LV                   | VR6340LV                |
| Color                       | 3D Mirror Black                    | 3D Ruby Red                     | Italian Red                 | Titan Silver            |
| Size                        | 340x340x89                         | 340x340x89                      | 340x340x89                  | 340x340x89              |
| Weight (Kg)                 | 3                                  | 3                               | 3                           | 3                       |
| Dust Bin Capacity (L)       | 0.6                                | 0.6                             | 0.6                         | 0.6                     |
| Filter                      | HEPA11                             | HEPA11                          | HEPA11                      | HEPA11                  |
| Coating                     | 3D Effect                          | 3D Effect                       | Italian Red                 | Silver Masking          |
| OFS                         | LED                                | LED                             | LED                         | LED                     |
| Gyro                        | 0                                  | 0                               | 0                           | 0                       |
| USS                         | 1T2R                               | 1T2R                            | 1T2R                        | 1T2R                    |
| PSD (Qty / Sensing Range)   | 2 / 2-15cm                         | 2 / 2-15cm                      | 2 / 2-15cm                  | 2 / 2-15cm              |
| Cliff (Qty / Sensing Range) | 3 / 2-15cm                         | 3 / 2-15cm                      | 3 / 2-15cm                  | 3 / 2-15cm              |
| Bumper                      | Accelometer                        | Accelometer                     | Accelometer                 | Accelometer             |
| Battery Type                | LiPB                               | LiPB                            | LiPB                        | Li-Ion                  |
| Docking                     | IR type                            | IR type                         | IR type                     | IR type                 |
| Power Switch                | 0                                  | 0                               | 0                           | 0                       |
| Display                     | Picto                              | Picto                           | Picto                       | Picto                   |
| Button                      | Touch                              | Touch                           | Touch                       | Touch                   |
| Hours                       | 3hr.                               | 3hr.                            | 3hr.                        | 3hr.                    |
| Noise IEC (Normal/Turbo)    | 60dB / 62dB                        | 60dB / 62dB                     | 60dB / 62dB                 | 60dB / 62dB             |
| Corner                      | 94%                                | 94%                             | 94%                         | 94%                     |
| Hard Floor                  | 93%                                | 93%                             | 93%                         | 93%                     |
| Carpet                      | 25%                                | 30%                             | 25%                         | 25%                     |
| Big Dust                    | 90%                                | 90%                             | 90%                         | 90%                     |
| Front Obstacle              | 2cm                                | 2cm                             | 2cm                         | 2cm                     |
| Cliff                       | 3cm                                | 3cm                             | 3cm                         | 3cm                     |
| II-SLAM                     | 0                                  | 0                               | 0                           | 0                       |
| Learning Function           | 0                                  | 0                               | 0                           | 0                       |
| Mapping Resume Function     | Local                              | Local                           | Local                       | Local                   |
| Zigzag                      | 0                                  | 0                               | 0                           | 0                       |
| Cell by Cell                | 0                                  | 0                               | 0                           | 0                       |
| Spiral Spot                 | 0                                  | 0                               | 0                           | 0                       |
| My Space                    | 0                                  | 0                               | 0                           | 0                       |
| Turbo                       | 0                                  | 0                               | 0                           | 0                       |
| Smart Turbo                 | 0                                  | 0                               | 0                           | 0                       |
| Repeat                      | 0                                  | 0                               | 0                           | 0                       |
| Mute                        | 0                                  | 0                               | 0                           | 0                       |
| Guide                       | 0                                  | 0                               | 0                           | 0                       |
| Clock                       | 0                                  | 0                               | 0                           | 0                       |
| Scheduler                   | 0                                  | 0                               | 0                           | 0                       |
| Button Lock                 | 0                                  | 0                               | 0                           | 0                       |
| Smart Diagnosis             | 0                                  | 0                               | 0                           | 0                       |
| Carpet Brush                | x                                  | 0                               | x                           | x                       |
| Mop                         | 2                                  | 2                               | Optional                    | Optional                |
| Mop Plate                   | 0                                  | 0                               | Optional                    | Optional                |
| Extra Filter                | 0                                  | 0                               | Optional                    | Optional                |
| Extra Side Brush            | 2                                  | 2                               | Optional                    | Optional                |
| Cleaning Brush              | 0                                  | 0                               | 0                           | 0                       |
| Cleaning Tool               | 0                                  | 0                               | 0                           | 0                       |

# Button Functions

## HOM-BOT SQUARE

### BUTTON LOCK On/Off

Press 'TURBO' and 'MODE' buttons for 3 seconds to activate or deactivate Button Lock function.

### TURBO

Used to set the 'Turbo Mode'.

### START/STOP

Used to turn power on, start or stop cleaning.



### MODE

Used to change the setting of cleaning modes.

### HOME

Used to recharge HOM-BOT by making it move to Home Station.

## REMOTE CONTROLLER

### START

Start cleaning.

### MODE

Change the cleaning mode.

### DIRECTIONAL BUTTON

Enable Manual Operation and selection of an area in 'My Space' cleaning mode.

### REPEAT

Activate or deactivate 'Repeat' cleaning mode.

### SCHEDULE

Start cleaning at a scheduled time. Press the button for 3 seconds to cancel the schedules cleaning.

### CLOCK

Set the current time indicated on HOM-BOT.



### HOME

Recharge HOM-BOT by making it move to Home Station.

### TURBO

Activate or deactivate 'Turbo' mode.

### STOP

Stop HOM-BOT or cancel a cleaning schedule or time setting.

### MY SPACE

Set HOM-BOT in 'My Space' cleaning mode.

### MUTE

Activate or deactivate 'Mute' mode.

### DIAGNOSIS

Run 'Smart Diagnosis'. Available only when HOM-BOT is recharging.

# Display Status Information

### BUTTON LOCK

Indicates whether 'Button Lock' is activated or not.

### SCHEDULE

Indicated the status of schedule 'One time', 'Everyday' setting.

### REPEAT CLEANING

Displayed if HOM-BOT is in 'Repeat' cleaning mode.

### ZIGZAG CLEANING

Displayed if HOM-BOT is working on Zigzag mode.

### CELL BY CELL CLEANING

Displayed if HOM-BOT is working on Cell by Cell mode.

### MUTE

Indicates whether the Sound Out is ON or OFF.

### BATTERY

Indicated the residual battery level.

### AM/PM

Indicates whether it's AM or PM.

### TURBO

Displayed if Turbo Mode is activated.

### HOMING

Displayed if HOM-BOT is in 'Homing' mode.

### MY SPACE

Displayed when HOM-BOT runs 'My Space' cleaning mode.

### SPOT CLEANING

Displayed when HOM-BOT starts 'Spot cleaning'.

