

Beatbot



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Beatbot



Redefine
Smart Pool Care



About Beatbot

Beatbot is a technology brand dedicated to the global robotization of swimming pool environments. Driven by a commitment to product excellence, the brand's mission is to redefine smart pool care, address industry challenges, enhance performance, and deliver hassle-free pool care experiences.

Beatbot is dedicated to empowering both existing pool owners and those considering pool ownership by removing maintenance hurdles, making pool ownership a source of joy and relaxation accessible to all.

Dive into the pool care revolution with us – Redefining Pool Care for Tomorrow!

Core Technology

We are at the forefront of the industry in core technologies such as brushless water pumps, AUV spatial locomotion, sonar laser SLAM, space mapping navigation algorithms, and more. Currently, we hold 221 patents (granted and under application), including 128 patents for inventions.

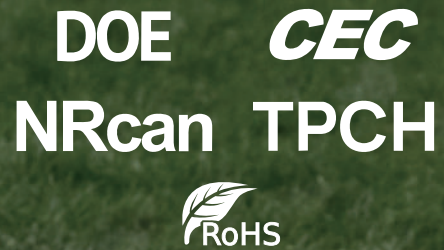
Our robots leverage the power of advanced AI algorithms and cutting-edge industry technology. At their core is the powerful Beatbot OS, featuring industrial-grade CPUs, MCUs, DDR RAM, flash storage, and integrated multisensor fusion (including IMUs, AI cameras, infrared, and ultrasonic sensors). Beatbot pioneered the world's first 5-in-1 pool cleaning system and the first AI-powered targeted debris cleaning system. With patented industry-first features, pioneering sensors, and advanced chipsets, our robots navigate pools with flawless precision.

Industry-Leading Certifications

With over 15 industry-leading certifications, including ETL, CEC and CPF, we uphold the highest standards of safety, reliability, performance, and environmental compliance. Beatbot is your trustworthy choice – safe, reliable, and energy-efficient.



(Certifications)



(Test Reports)

Our Awards

Reflecting our dedication to quality and innovation, we've earned several awards, including the prestigious IF Design Award, recognized internationally for design excellence.



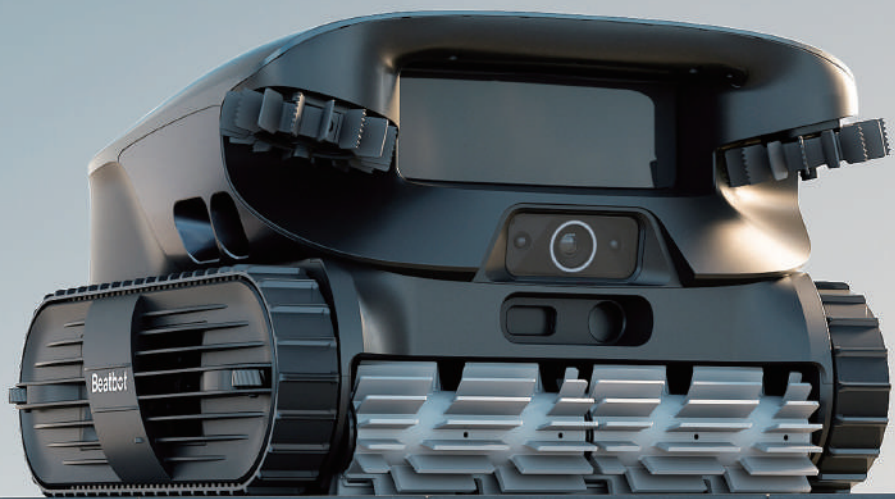
Mastering Cleaning Precision

Beatbot AquaSense 2 Ultra

The World's First AI-Powered 5-in-1 Robotic Pool Cleaner



TÜV-Certified
Privacy Protection*
Ensures your data stays secure.^{1,11}



1. AquaSense 2 Ultra is TÜV Rheinland-certified for ETSI EN 303 645, it fully complies with the highest GDPR and ISO/IEC 27701 standards, setting a new benchmark for cybersecurity and privacy protection.

Specifications



Recommended Pool Size (Pool Bottom)
3,875 square feet (360 square meters)



Cleaning Coverage
Water surface, floor, walls, waterline



6 Cleaning Modes
Floor, Standard, Pro, ECO, Area, MutiZone



Filters Density & Capacity
150 µm, 4.0L (outer) / 250 µm, 3.7L (inner)



Connectivity
Wifi + Bluetooth connection



Battery Life
Up to 10 hours for surface cleaning
Up to 5 hours for floor cleaning
Up to 5 hours for walls + waterline cleaning

What's in the box



1 x Beatbot
AquaSense 2 Ultra



1 x Clarifying
agent kit



1 x Wireless
charging dock



1 x
Hook



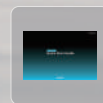
1 x
Screwdriver



4 x Screws for
side brush



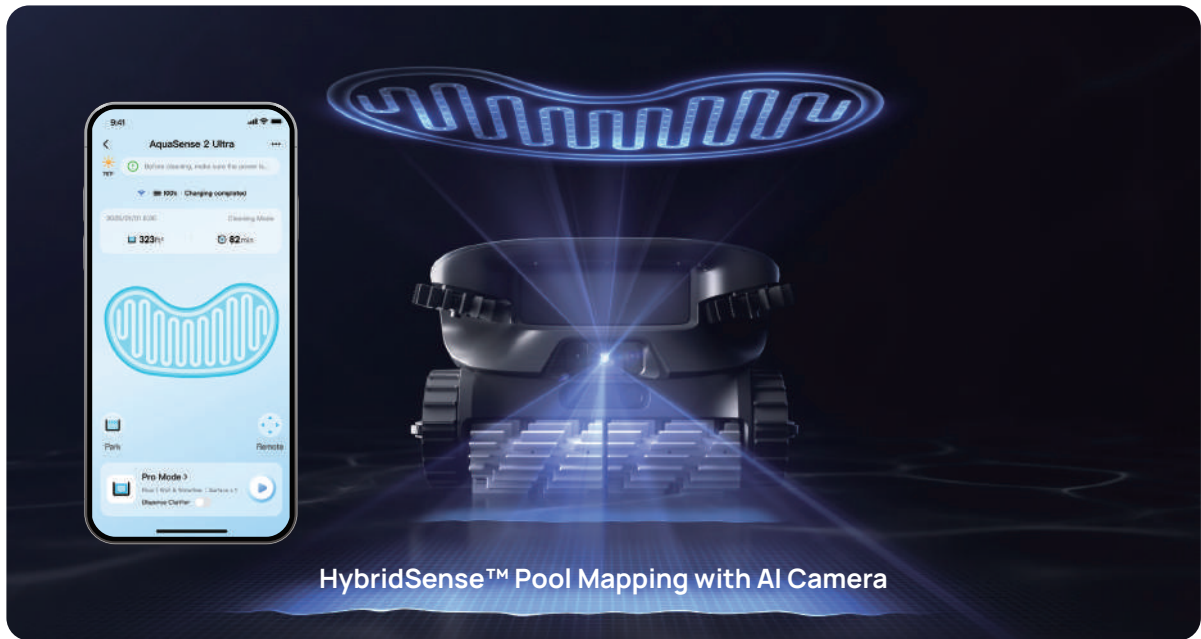
1 x
Dust bag



1 x Quick
start guide

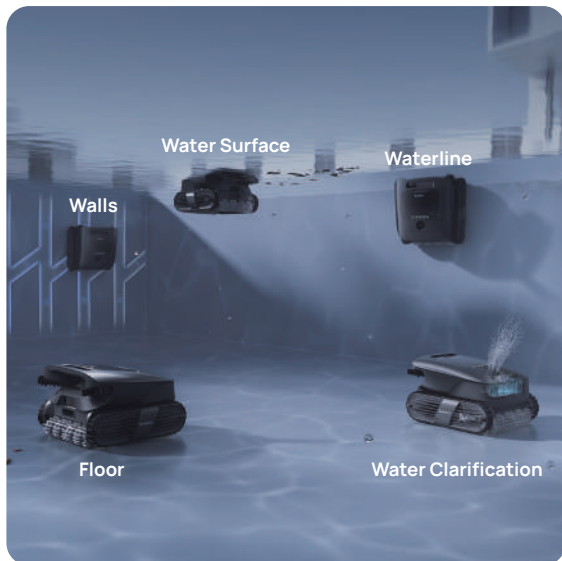


1 x User
manual



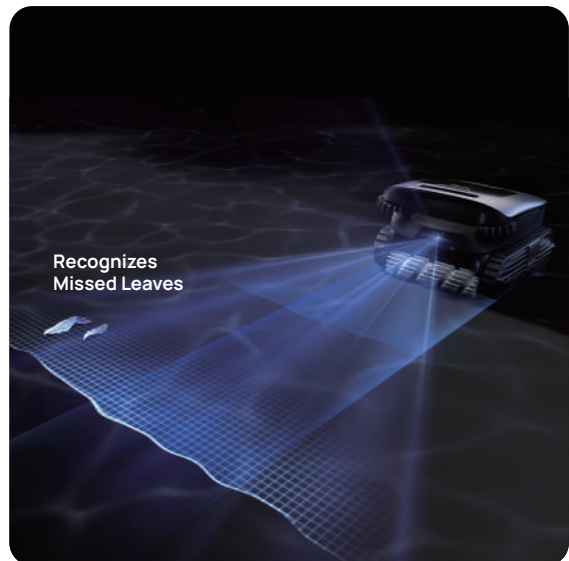
Industry-Leading Cleaning Precision with HybridSense™ AI Vision

Achieve ultra-precise navigation, obstacle detection, and full coverage with HybridSense™, an industry-first blend of an AI camera with dual TOF sensors, infrared, and ultrasonic sensors. View the pool map and cleaning path on the app for total control.



5-in-1 Comprehensive Cleaning

Effortlessly clean your pool from bottom to top—all in one cordless device. With 11 motors and an innovative submarine propulsion system, it eliminates the need for multiple cleaners.



Advanced AI Cruise Floor Debris Detection^[1]

After the initial floor cleaning, the AquaSense 2 Ultra performs an AI-powered cruise to detect and capture any remaining debris, ensuring a spotless pool.

1. The advanced AI camera and algorithms currently recognize various leaf types, fruits, and nuts, with more debris types to be added via OTA updates, continually enhancing detection capabilities.



AI Adaptive Path Planning for Multi-Level Pools

Cleans multi-levels, high platforms & shallow areas (13.7 inches+). AquaSense 2 Ultra's AI adapts its path autonomously, using dual downward ultrasonic sensors to detect edges and prevent falls—ensuring full pool coverage.



Say Goodbye to Heavy Lifting and Manual Fishing

The robot parks above the water after cleaning, while SmartDrain™ releases water for lighter retrieval. You can also call it back anytime while on the surface using the app's 'Park' button.



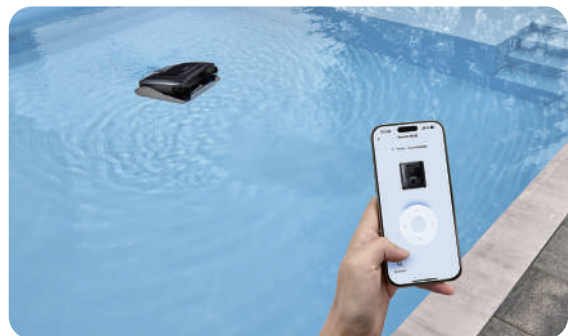
Skin-Safe & Eco-Friendly ClearWater™ Natural Clarification

Effortlessly clear dirt, oils, and residue using natural recycled crab-shell agents. It automatically binds fine particles for superior filtration.



Dual side brushes

Capture more floating debris for a deeper clean.



App Remote Control Navigation

Quicker and more targeted surface debris cleaning.

Maximizing Cleaning Coverage

Beatbot AquaSense 2 Pro

The Industry-Leading 5-in-1 Robotic Pool Cleaner

Specifications



Recommended Pool Size(Pool Bottom)
3,875 square feet (360 square meters)



Cleaning Coverage
Water surface, floor, walls, waterline



6 Cleaning Modes
Floor, Standard, Pro, ECO, Area, MutiZone



Dual Layer Filter
150 µm, 3.7L (outer) / 250 µm, 3.5L (inner)



Connectivity
Wifi + Bluetooth connection



Battery Life
Up to 11 hours for surface cleaning
Up to 5 hours for floor cleaning
Up to 5 hours for walls + waterline cleaning



What's in the box



1 x Beatbot AquaSense 2 Pro



1 x Clarifying agent kit



1 x Wireless charging dock



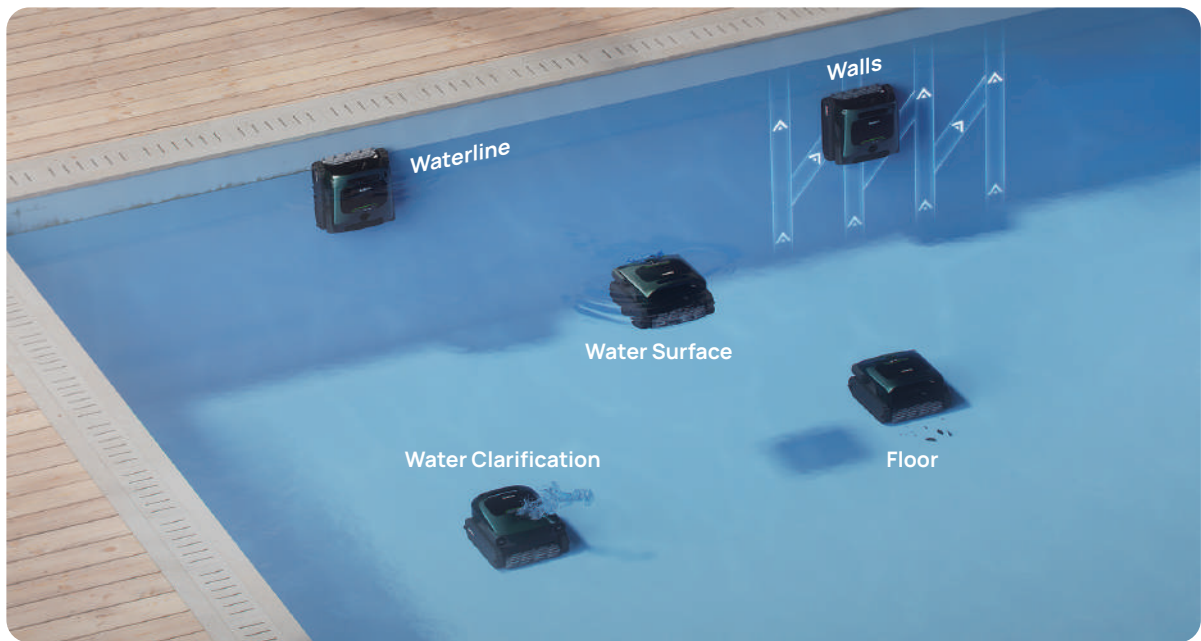
1 x Hook



1 x Quick start guide



1 x User manual



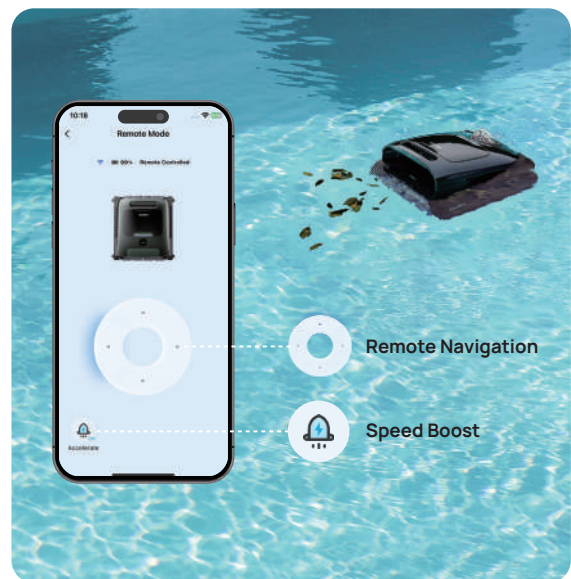
5-in-1 Cleaning: Water Surface, Waterline, Floor, Walls, Water Clarification

Effortlessly clean your pool from bottom to top—all in one cordless device. With 9 motors and an innovative submarine propulsion system, it eliminates the need for multiple cleaners.



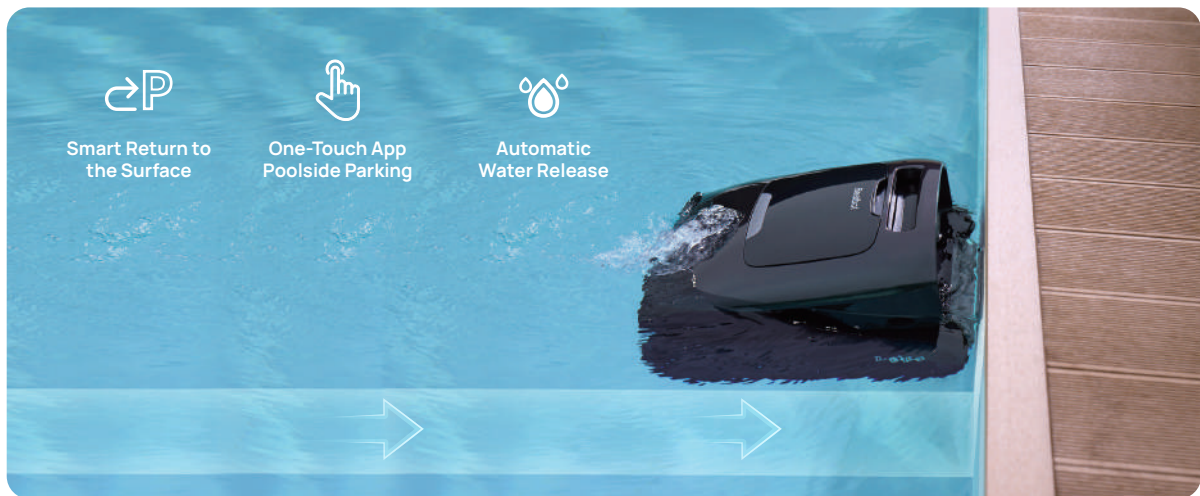
Skin-Safe & Eco-Friendly ClearWater™ Natural Clarification

Effortlessly clear dirt, oils, and residue using natural recycled crab-shell agents. It automatically binds fine particles for superior filtration.



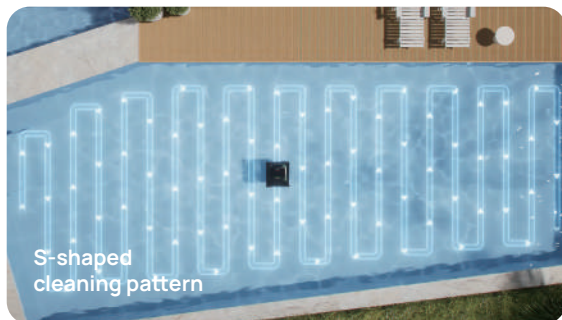
Efficient Water Surface Cleaning with App Navigation Control

Effortlessly guide the robot's direction and speed it up for quick, precise, and fun targeting—all via the app.



Smart Water Surface Parking & One-Touch App Retrieval

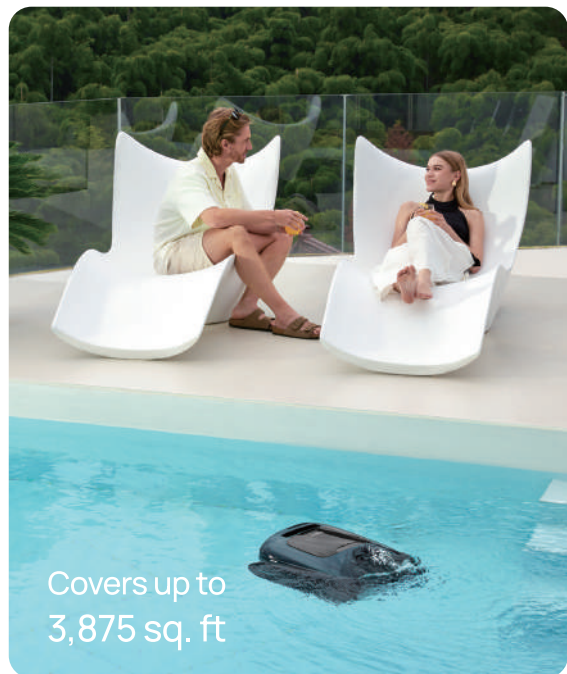
The robot parks above the water after cleaning, while SmartDrain™ releases water for lighter retrieval. You can also call it back anytime while on the surface using the app's 'Park' button.



S-shaped cleaning pattern



N-shaped cleaning pattern



Covers up to 3,875 sq. ft

Full Coverage Path Optimization with 22 Sensors

With CleverNav™ navigation, a 4-core CPU, and 22 sensors (including 2 ultrasonic), it optimizes cleaning paths for full coverage and smoothly navigates obstacles like drains, stairs, and ladders.

Up to 11 Hours of Continuous Surface Cleaning

The powerful 13,400mAh battery delivers up to 11 hours of surface cleaning and 5 hours of floor/wall cleaning on a single charge, cleaning pools up to 3,875 Sq.ft without interruption!

Enhancing Cleaning Convenience

Beatbot AquaSense 2

The World's First 3-in-1 Robotic Pool Cleaner with
Water Surface Parking

Specifications



Recommended Pool Size (Pool Bottom)
3,230 square feet (300 square meters)



Cleaning Coverage
Floor, walls, waterline



4 Cleaning Modes
Floor, Standard, Area, MutiZone



Single Layer Filter
150 µm, 2L



Connectivity
Wifi + Bluetooth connection



Battery Life
Up to 4 hours for floor cleaning
Up to 3.5 hours for walls + waterline cleaning



What's in the box



1 x Beatbot AquaSense 2



1 x Wireless charging dock



1 x Hook



1 x Quick start guide



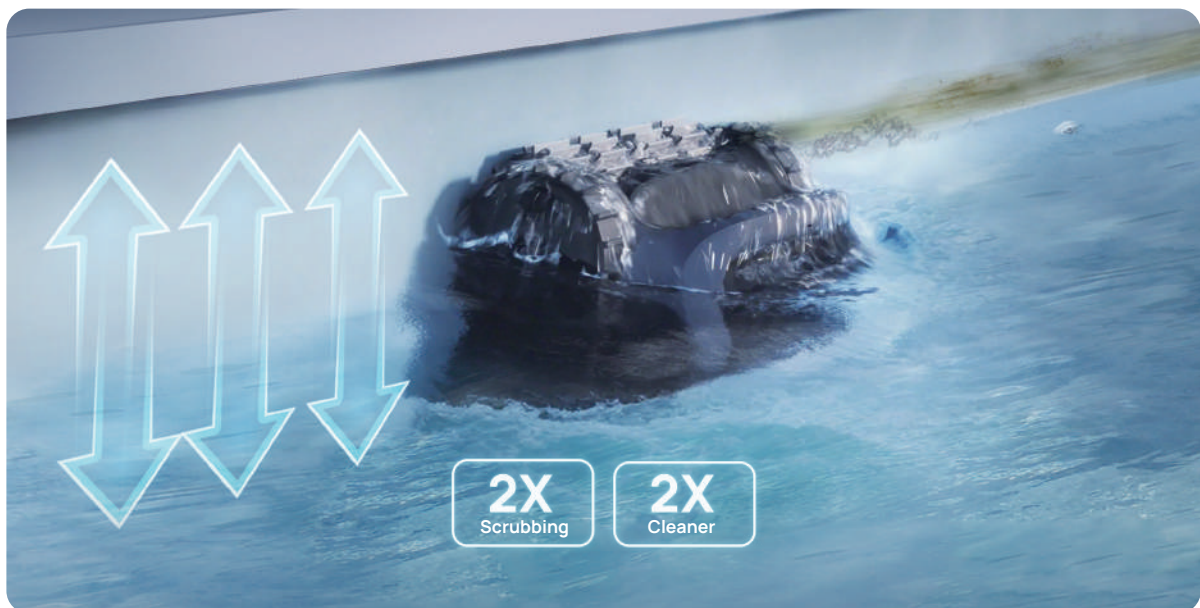
1 x User manual





Smart Water Surface Parking & One-Touch App Retrieval

No heavy lifting! AquaSense 2 automatically parks above the surface after cleaning, while SmartDrain™ releases water for lighter retrieval. Plus, use the app's 'Park' button to call it back anytime while on the surface.



Enhanced Waterline Cleaning with Double-Pass Scrubbing

AquaSense 2 scrubs the waterline twice per pass for a deeper, more thorough clean, effortlessly tackling grime and buildup for a spotless finish.



Up to 4 Hours of Continuous Floor Cleaning

Power through pools up to 3,230 sq. ft. with a powerful 10,000mAh battery. Enjoy up to 4 hours of floor cleaning or 3.5 hours of wall and waterline scrubbing on a single charge.



Safe & Convenient Wireless Charging, Easy Storage

The ergonomic dock provides safe, wireless charging and tidy storage. No tangled cords, no exposed ports—eliminating water intrusion risks and fully recharging AquaSense 2 in just 4 hours.



Full Coverage Path Optimization with 16 Sensors

With CleverNav™ advanced navigation, a 4-core CPU, and 16 sensors (including 2 ultrasonic), it optimizes cleaning paths for full coverage, adapts to your pool's shape, and navigates obstacles smoothly.



Durable Automotive-Grade IMR Coating

Shields your robot from sun, heat, and wear, keeping it looking new while protecting internal components. The no-spray process is safe for your pool and the planet.

Beatbot Cares

Superior Protection, Exceptional Experience

Built with UV and heat-resistant automotive-grade IMR coating, backed by 15 certifications and 200+ rigorous quality tests, our robots offer industry-leading reliability and protection with 3-year^[1] full machine replacement instead of repairs.



Automotive-Grade IMR Coating for Extreme Outdoor Durability



15+ Certifications



200+ Rigorous Tests



1. 3-year warranty for the AquaSense 2 Series and AquaSense Pro. The AquaSense and iSkim Ultra warranty is 2 years.

Industry-leading Sustainability

Hydrodynamic Design

Our robots incorporate an energy-saving hydrodynamic design, maximizing efficiency by minimizing resistance in water flow, thereby reducing energy consumption.



Recycled Materials

Our packaging, certified by TPCH, is made from recycled materials, reducing waste and ensuring environmentally responsible practices throughout our supply chain.



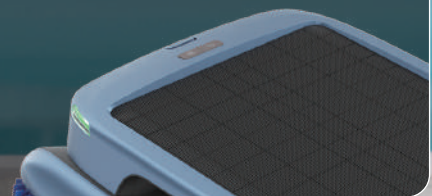
Natural Clarifiers

Our eco-friendly clarifiers, derived from recycled crab shells sourced from the restaurant industry, offer a powerful solution that minimizes chemical usage, extends pool water lifespan, and fosters a healthier environment.



Renewable Energies

We've developed cutting-edge solar technologies and recently launched our first solar-powered pool skimmer, boasting the highest energy efficiency in the industry. Additionally, we are committed to developing more renewable energy-powered robots in the future, reducing our reliance on non-renewable energy sources.



Unmatched Versatility for Every Pool

Any Pool. Any Shape. Any Material. Any Area.

The Beatbot AquaSense Series sets a new standard in pool cleaning versatility. No matter the type of pool, its shape, material, or the area to be cleaned, our robots rise to the challenge.

From the floor to the walls, waterline, and water surface, our robots deliver thorough and comprehensive cleaning.



Any Pool Type:
In-ground / Above Ground

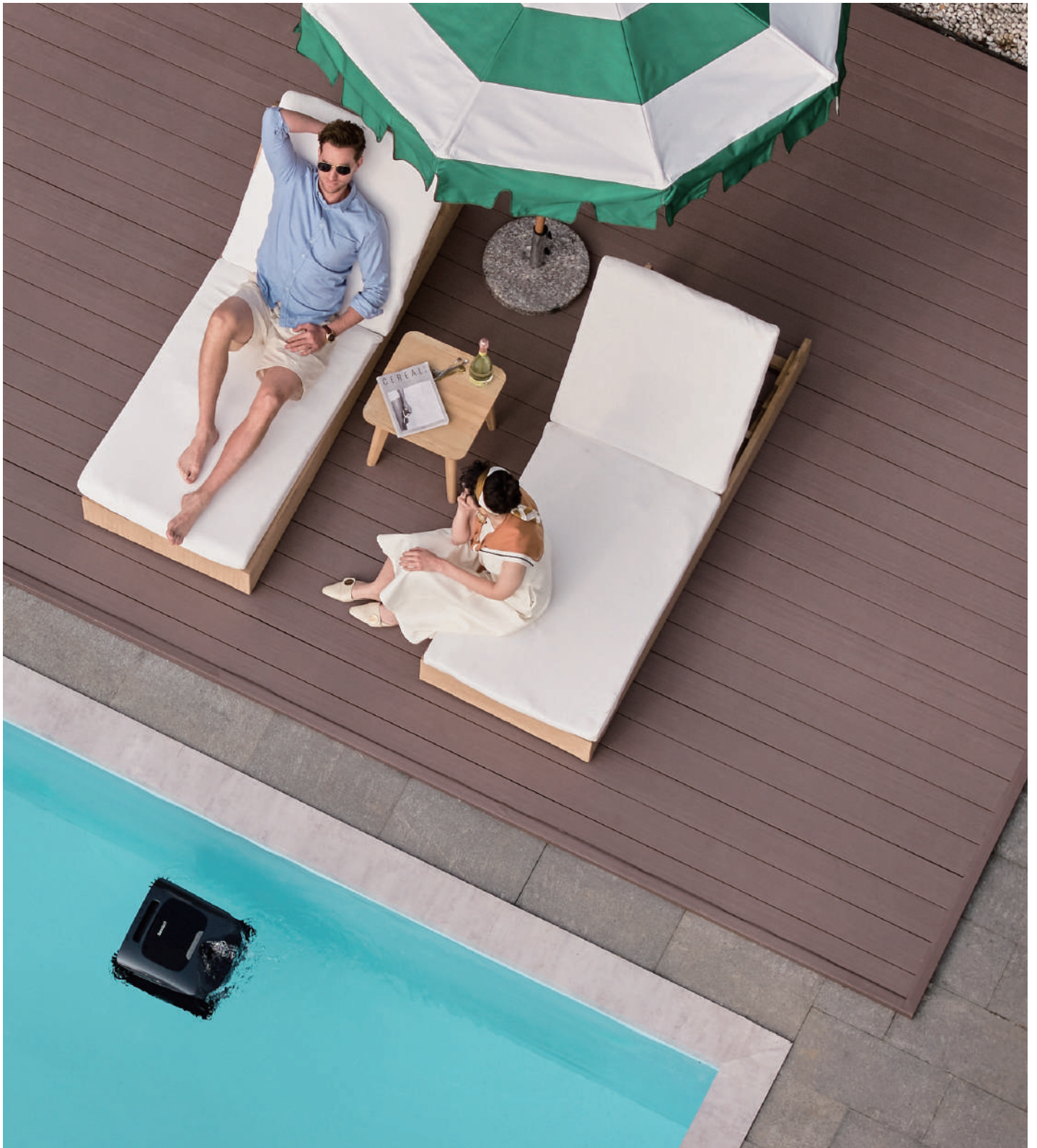


Any Pool Shape:
Geometric / Free Shape



Any Pool Material:
Concrete / Ceramic Tiles / Vinyl / Fiberglass





Beatbot App Integration

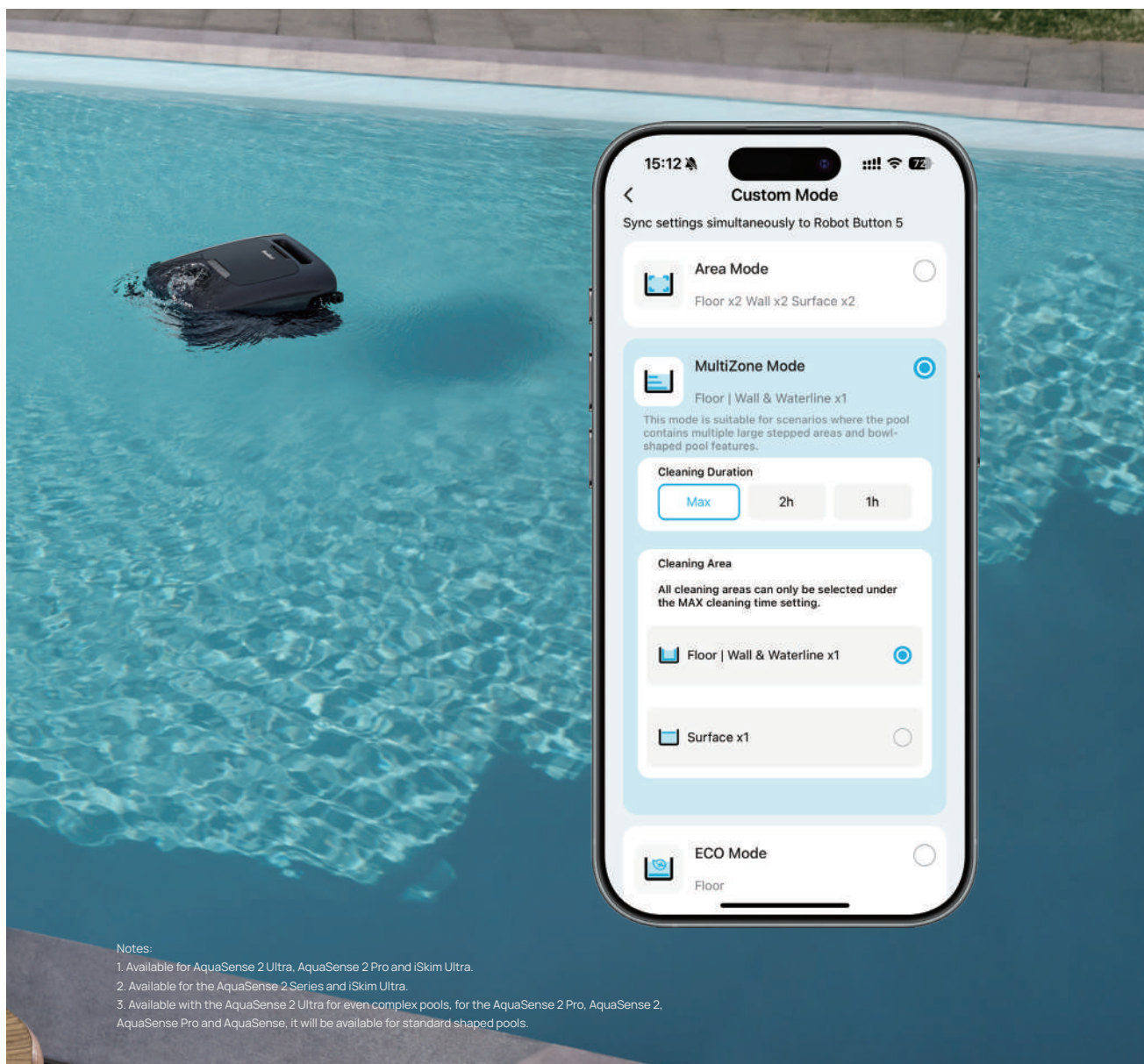
Tailored and Effortless Cleaning Control

The Beatbot App puts you in control of your pool maintenance. With its intuitive features, you can customize cleaning sessions and stay informed about your pool's condition, ensuring your pool cleaning experience is effortless and efficient.



Our Beatbot App offers:

- **Select Cleaning Modes:** Choose from multiple modes or customize your own.
- **Status Updates:** Get real-time updates on cleaning progress and Wi-Fi status.
- **Notification Alerts:** Receive timely updates to stay informed.
- **Cleaning Records:** Access your cleaning history anytime.
- **OTA Software Updates:** Easily update your robot for enhanced performance.
- **Remote Control¹ with Speed Button:** Target specific areas for spot cleaning and added fun.
- **Water & Environment Monitoring¹:** Check pool conditions for ideal swimming temperatures.
- **Cleaning & Clarifier Scheduling¹:** Schedule sessions to fit your routine and save time.
- **One-Click Poolside Parking²:** Bring your robot back anytime you need it with a single click.
- **Pool Map and Cleaning Paths Visualization³:** See your pool's layout and track cleaning routes.



Notes:

1. Available for AquaSense 2 Ultra, AquaSense 2 Pro and iSkim Ultra.
2. Available for the AquaSense 2 Series and iSkim Ultra.
3. Available with the AquaSense 2 Ultra for even complex pools, for the AquaSense 2 Pro, AquaSense 2, AquaSense Pro and AquaSense, it will be available for standard shaped pools.

Comparison of Products Features



Model	Beatbot AquaSense 2 Ultra	Beatbot AquaSense 2 Pro
Cordless	✓	✓
Solar Powered	✗	✗
Cleaning Coverage Areas	Water surface, floor, walls, waterline	Water surface, floor, walls, waterline
ClearWater™ Clarifying Technology	✓	✓
HybridSense™ Mapping with AI Camera	✓	✗
AI-Powered Cruise Debris Detection	✓	✗
AI Adaptive multi-level platform cleaning	✓	✗
Elevated Platform Cleaning via Multizone Mode	✓	✓
SonicSense™ Ultrasonic Sensors	✓	✓
CleverNav™ Smart Navigation System	✓ Pool floor and surface: S-shaped cleaning pattern; Pool walls and waterline: N-shaped cleaning pattern	✓ Pool floor and surface: S-shaped cleaning pattern; Pool walls and waterline: N-shaped cleaning pattern
Obstacle Detection and Self-Extrication Ability	✓	✓
Cleaning Modes	6 Modes: Floor Mode: Cleans the floor only (1 time). Standard Mode: Cleans the floor, walls, and waterline (1 time). Pro mode: Cleans the floor, walls, waterline and water surface (1 time). ECO mode: Cleans the floor every other day (1 time). Area Mode: Cleans any area or combination of areas (1 or 2 times). MultiZone Mode: Cleans the floor, walls, waterline, large steps, and platforms.	6 Modes: Floor Mode: Cleans the floor only (1 time). Standard Mode: Cleans the floor, walls, and waterline (1 time). Pro mode: Cleans the floor, walls, waterline and water surface (1 time). ECO mode: Cleans the floor every other day (1 time). Area Mode: Cleans any area or combination of areas (1 or 2 times). MultiZone Mode: Cleans the floor, walls, waterline, large steps, and platforms.
Manual Remote Navigation Control	✓ (Via App / Surface Only)	✓ (Via App / Surface Only)
App Parking Button	✓	✓
Water Surface Parking	✓	✓
SmartDrain™ Automatic Water Release	✓	✓
Beatbot APP Integration	✓	✓
Voice Broadcast	✓	✗
Cleaning Records	✓	✓
Environment & Water Temperature	✓	✓
Side brushes	✓	✗
OTA Performance Updates	✓	✓



Beatbot AquaSense 2	Beatbot AquaSense Pro	Beatbot AquaSense	Beatbot iSkin Ultra
✓	✓	✓	✓
✗	✗	✗	✓
Floor, walls, waterline	Water surface, floor, walls, waterline	Floor, walls, waterline	Water surface
✗	✓	✗	✓
✗	✗	✗	✗
✗	✗	✗	✗
✗	✗	✗	/
✓	✓	✓	/
✓	✓	✓	✓
Pool floor: S-shaped cleaning pattern; Pool walls and waterline: N-shaped cleaning pattern	Pool floor and surface: S-shaped cleaning pattern; Pool walls and waterline: N-shaped cleaning pattern	Pool floor: S-shaped cleaning pattern; Pool walls and waterline: N-shaped cleaning pattern	Pool surface: S-shaped cleaning pattern
✓	✓	✓	✓
4 Modes: Floor Mode: Cleans the floor only (1 time). Standard Mode: Cleans the floor, walls, and waterline (1 time). Area Mode: Cleans any area or combination of areas (1 or 2 times). MultiZone Mode: Cleans the floor, walls, waterline, large steps, and platforms.	6 Modes: Floor Mode: Cleans the floor only (1 time). Standard Mode: Cleans the floor, walls, and waterline (1 time). Pro mode: Cleans the floor, walls, waterline and water surface (1 time). ECO mode: Cleans the floor every other day (1 time). Area Mode: Cleans any area or combination of areas (1 or 2 times). MultiZone Mode: Cleans the floor, walls, waterline, large steps, and platforms.	4 Modes: Floor Mode: Cleans the floor only (1 time). Standard Mode: Cleans the floor, walls, and waterline (1 time). Area Mode: Cleans any area or combination of areas (1 or 2 times). MultiZone Mode: Cleans the floor, walls, waterline, large steps, and platforms.	2 Modes Automatic Manual Remote via App
✗	✗	✗	✓ (Via App / Surface Only)
✓	✗	✗	✓
✓	✓	✗	✓
✓	✓	✗	/
✓	✓	✓	✓
✗	✗	✗	✓
✓	✓	✓	✓
✗	✗	✗	✓
✗	✗	✗	✓
✓	✓	✓	✓

Comparison of Products Specifications



Model	Beatbot AquaSense 2 Ultra	Beatbot AquaSense 2 Pro	Beatbot AquaSense 2
Product Category	Robotic Pool Cleaner	Robotic Pool Cleaner	Robotic Pool Cleaner
Product Type	Cordless	Cordless	Cordless
General Information			
Pool Type	Above ground & in-ground pools	Above ground & in-ground pools	Above ground & in-ground pools
Pool Shape	All shapes, such as rectangular, round, kidney, and freeform	All shapes, such as rectangular, round, kidney, and freeform	All shapes, such as rectangular, round, kidney, and freeform
Recommended Pool Size	360 square meters (3,875 square feet)	360 square meters (3,875 square feet)	300 square meters (3,230 square feet)
Pool Materials	All materials including concrete, ceramic tiles, vinyl, and fiberglass	All materials including concrete, ceramic tiles, vinyl, and fiberglass	All materials including concrete, ceramic tiles, vinyl, and fiberglass
In-Box Content	Robotic pool cleaner, charging dock, clarifying agent kit, hook, screwdriver, screws for side brush (x4), dust bag, quick start guide, user manual	Robotic pool cleaner, charging dock, clarifying agent kit, hook, quick start guide, user manual	Robotic pool cleaner, charging dock, hook, quick start guide, user manual
Cleaning Power and Filtration			
Motors	11 motors	9 motors	4 motors
Brushes	2 side brushes 4 bottom roller brushes: Dual-Group Roller Brush System with differential speed (Front and rear: 2 x 2 sets) 1 front roller brush	4 bottom roller brushes: Dual-Group Roller Brush System with differential speed (Front and rear: 2 x 2 sets) 1 front roller brush	4 bottom roller brushes: Dual-Group Roller Brush System with differential speed (Front and rear: 2 x 2 sets)
Number of Suction Ports	2 ports (top front and bottom)	2 ports (top front and bottom)	1 port (bottom)
Filters Type	Polyester	Polyester	Polyester
Filters Access	Top access	Top access	Top access
Filtration Layers	2 layers (one larger & one thinner)	2 layers (one larger & one thinner)	1 layer
Filters Density	150 µm (outer) / 250 µm (inner)	150 µm (outer) / 250 µm (inner)	150 µm
Filter Baskets Capacity	Outer dust box 4.0L / Inner dust box 3.7L	Outer dust box 3.7L / Inner dust box 3.5L	2L



Model	Beatbot AquaSense Pro	Beatbot AquaSense	Beatbot iSkim Ultra
Product Category	Robotic Pool Cleaner	Robotic Pool Cleaner	Robotic Pool Skimmer
Product Type	Cordless	Cordless	Cordless & solar-powered
General Information			
Pool Type	Above ground & in-ground pools	Above ground & in-ground pools	Above ground & in-ground pools
Pool Shape	All shapes, such as rectangular, round, kidney, and freeform	All shapes, such as rectangular, round, kidney, and freeform	All shapes, such as rectangular, round, kidney, and freeform
Recommended Pool Size	300 square meters (3,230 square feet)	210 square meters (2,260 square feet)	—
Pool Materials	All materials including concrete, ceramic tiles, vinyl, and fiberglass	All materials including concrete, ceramic tiles, vinyl, and fiberglass	All materials including concrete, ceramic tiles, vinyl, and fiberglass
In-Box Content	Robotic pool cleaner, charging dock, hook, quick start guide, user manual	Robotic pool cleaner, charging dock, hook, quick start guide, user manual	Robotic pool skimmer, clarifying agent kit, Magnetic Wireless Charger, hook, screwdriver, screws for roller brush (x4), screws for side brush (x4), user manual, quick start guide, after-sales service card
Cleaning Power and Filtration			
Motors	9 motors	3 motors	7 motors
Brushes	4 bottom roller brushes: Dual-Group Roller Brush System with differential speed (Front and rear: 2 x 2 sets) 1 front roller brush	4 bottom roller brushes: Dual-Group Roller Brush System with differential speed (Front and rear: 2 x 2 sets)	2 side brushes 1 front roller brush
Number of Suction Ports	2 ports (top front and bottom)	1 port (bottom)	1 port (top front)
Filters Type	Polyester	Polyester	Nylon mesh
Filters Access	Top access	Top access	Front access
Filtration Layers	2 layers (one larger & one thinner)	1 layer	1 layer
Filters Density	150 µm (outer) / 250 µm (inner)	150 µm	380 µm
Filter Baskets Capacity	Outer dust box 3.7L / Inner dust box 3.5L	2L	9L

Comparison of Products Specifications



Model	Beatbot AquaSense 2 Ultra	Beatbot AquaSense 2 Pro	Beatbot AquaSense 2
Advanced Technology, OS, and Connectivity			
Hardware Components	Quad-core Cortex-A7 1.8GHz industrial-grade CPU, MCU, DDR RAM, flash storage, and 27 smart sensors (hybrid fusion including AI Camera with dual TOF, 2 Infrared, and 4 Ultrasonic Sensors)	Quad-core Cortex-A7 1.8GHz industrial-grade CPU, MCU, DDR RAM, flash storage, and 22 smart sensors (including dual IMU and dual ultrasonic sensors)	Quad-core Cortex-A7 1.8GHz industrial-grade CPU, MCU, DDR RAM, flash storage, and 16 smart sensors (including dual IMU and dual ultrasonic sensors)
Operating System	Beatbot OS	Beatbot OS	Beatbot OS
Connectivity	Wifi + Bluetooth connection	Wifi + Bluetooth connection	Wifi + Bluetooth connection
Battery			
Runtime	Up to 10 hours (surface cleaning) Up to 5 hours (floor cleaning) Up to 5 hours (walls + waterline cleaning)	Up to 11 hours (surface cleaning) Up to 5 hours (floor cleaning) Up to 5 hours (walls + waterline cleaning)	Up to 4 hours (floor cleaning) Up to 3.5 hours (walls + waterline cleaning)
Battery Capacity & Type	13,400 mAh Lithium Ion	13,400 mAh Lithium Ion	10,000 mAh Lithium Ion
Charging Time	Approx. 4.5h, quick 88W charging	Approx. 4.5h, quick 88W charging	Approx. 4h, quick 88W charging
Charging Method	Wireless dock charging station	Wireless dock charging station	Wireless dock charging station
Design			
Guidance protective wheels	6	4	4
Control Buttons	1 power switch key + 4 mode keys	1 power switch key + 4 mode keys	1 power switch key + 2 mode keys
Status Display	LED strip + button light + voice broadcast	LED strip + button light	LED strip + button light
Overall Robot Weight	291 lbs (13.2 kg)	25.08 lbs (11.38 kg)	23.08 lbs (10.47 kg)
Overall Robot Dimensions	1.49 (L) ft x 1.44 (W) ft x 0.91 (H) ft 454 (L) mm x 439 (W) mm x 278 (H) mm	1.48 (L) ft x 1.43 (W) ft x 0.88 (H) ft 452 (L) mm x 434 (W) mm x 267 (H) mm	1.48 (L) ft x 1.43 (W) ft x 0.76 (H) ft 451 (L) mm x 435 (W) mm x 233 (H) mm
Reliability			
Waterproof Protection	IP68 (robot), IP54 (charging dock)	IP68 (robot), IP54 (charging dock)	IP68 (robot), IP54 (charging dock)
Recommended water depth	1.64 ft to 9.84 ft / 0.5 m to 3 m	1.64 ft to 9.84 ft / 0.5 m to 3 m	1.64 ft to 9.84 ft / 0.5 m to 3 m



Model	Beatbot AquaSense Pro	Beatbot AquaSense	Beatbot iSkin Ultra
Advanced Technology, OS, and Connectivity			
Hardware Components	Quad-core Cortex-A7 1.8GHz industrial-grade CPU, MCU, DDR RAM, flash storage, and 20 smart sensors (including dual IMU and dual ultrasonic sensors)	Quad-core Cortex-A7 1.8GHz industrial-grade CPU, MCU, DDR RAM, flash storage, and 15 smart sensors (including dual IMU and dual ultrasonic sensors)	MCU, 20 sensors (including 3 Ultrasonic sensors: 2 on the water surface + 1 underwater + 6-axis IMU)
Operating System	Beatbot OS	Beatbot OS	Beatbot OS
Connectivity	Wifi connection	Wifi connection	Wifi + Bluetooth connection
Battery			
Runtime	Up to 5 hours (floor cleaning) up to 9.5 hours (surface cleaning)	Up to 3 hours (floor cleaning)	Non-stop with sunlight, up to 24 hours without sunlight
Battery Capacity & Type	10,400 mAh Lithium Ion	6,700 mAh Lithium Ion	10,000 mAh Lithium Ion
Charging Time	Approx. 3.5h, quick 88W charging	Approx. 3h, quick 88W charging	Approx. 5h, 24W solar panel + 24W magnetic wireless charger
Charging Method	Wireless dock charging station	Wireless dock charging station	Solar & Magnetic wireless charging
Design			
Guidance protective wheels	—	—	4
Control Buttons	LED strip + button light	LED strip + button light	LED strip + button light + voice broadcast
Status Display	LED strip + button light + voice broadcast	LED strip + button light	LED strip + button light
Overall Robot Weight	24.25 lbs (11 kg)	20.5 lbs (9.3 kg)	16.98 lbs (7.7kg)
Overall Robot Dimensions	1.48 (L) ft x 1.32 (W) ft x 0.86 (H) ft 451 (L) mm x 403 (W) mm x 263 (H) mm	1.48 (L) ft x 1.32 (W) ft x 0.76 (H) ft 451 (L) mm x 403 (W) mm x 233 (H) mm	1.76 (L) ft x 1.68 (W) ft x 0.74 (H) ft 537.2 (L) mm x 511 (W) mm x 227.5 (H) mm
Reliability			
Waterproof Protection	IP68 (robot), IP54 (charging dock)	IP68 (robot), IP54 (charging dock)	IP68 (robot)
Recommended water depth	1.64 ft to 9.84 ft / 0.5 m to 3 m	1.64 ft to 9.84 ft / 0.5 m to 3 m	≥0.1m (for optimal scanning and S-path planning)