PowerVac
CLEANING EQUIPMENT & SERVICE
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DATASHEET – C40

KEENON

Professional 4-in-1 Cleaning Robot for Small to Medium Spaces

C40



- Triple-Brush Dry/Wet Separation System: Prevents cross-contamination between dry and wet debris, enabling One-Step Mode Switching for Vacuuming/Scrubbing.
- Instant Drying with Zero Water Residue: 23,500Pa suction power ensures immediate drying post seconds.
- Multi-Modal 3D Perception for Complex Environments: Sensor Fusion: LiDAR + Stereo Vision Sensors + Line Laser Sensors + Ultrasonic Sensors. And Keenon Navigation & Obstacle Avoidance: Optimized algorithms for human coexisting spaces.
- Hygienic Waste Management: Fully Removable and Washable Wastewater Tank prevents odor and bacterial growth through thorough rinsing.
- Superior Adaptability & Efficiency: 400 mm vacuuming/scrubbing width for large passable width of 65 cm)
- High-Capacity Battery (25.6V 50Ah) with Quick-Swappable Support: Enables extended runtime and *almost uninterrupted operation via rapid battery replacement. (*Enables rapid battery swaps with almost zero interruption.
- Intuitive Operation Interface: 11.6-inch HD touchscreen with user-centric UI design.
- Ergonomic Control Panel: Rear-Tilting Control Panel enables stand-up operation and manual cleaning.
- Effortless Maintenance: Quick-Switch Consumables (side brushes, dust bag, clean/dirty water tanks) and brush rails for rapid disassembly.
- Smart Cleaning Ecosystem: Full management via Mobile App and KEENON Cloud featuring IoT integration, break point resumption, auto-recharging, and multi-device coordination.

Specifications

Cleaning Mode	Sweeping Mode, Vacuuming Mode(Sweeping + Vacuuming), Dust Mopping Mode(Sweeping + Dust Mopping)
	Scrubbing Mode(Sweeping + Scrubbing), Water Extraction Mode
Cleaning Efficiency	Up to 1100㎡/h
Cleaning Area	Up to 3000㎡ for Vacuuming and 2500㎡ for Scrubbing
Suction Power	Up to 23500Pa
Maximum Cleaning Width	Sweeping: 560mm (With double Side Brushes); Vacuuming and Scrubbing: 400mm
Dust Collection	8L Dust Bag, 0.7L for Separate Dustbin
Clean Water Tank	16L
Dirty Water Tank	14L
Battery Life	Sweeping Mode: up to 15h; Dust Mopping Mode: up to 10h; Vacuuming Mode: up to 6h
	Scrubbing Mode: up to 5h
Noise	70dB
Maximum Cleaning Speed	*0.8m/s(Will be optimized to 1.2m/s via further upgrades)
Maximum Moving Speed	*0.8m/s(Will be optimized to 1.2m/s via further upgrades)
Carpet Cleaning Ability	10mm
Gap Crossing Ability	35mm(Navigation);
Obstacle Climbing Ability	15mm(Navigation, Sweeping + Vacuuming); 5mm(Sweeping + Scrubbing, not suggested)
Minimum Passable Width	65cm
Minimum Passable Height	75cm
Slope Angle	≤ 8°(Navigation only, no cleaning task); ≤ 2°(Cleaning Task)

Measurements

Robot Dimension(W*D*H)	616*550*690mm
Robot Weight	70kg (With Battery, Water Tanks are empty, Robot Only)
Charging Pile Dimension(W*D*H)	534*225*407mm
Charging Pile Weight	About 20kg

Environment

Operating Temperature and Humidity	0 - 40℃, 20% - 80%RH
Operating environment	Indoor environment, carpet (regular low-pile carpet, ≤10mm) , hard floor
Storage Temperature and Humidity	-15℃ - 45℃, 20% - 80%RH

Battery and Charging

Battery Type	LFP battery
Battery Capacity	DC 25.6V 50Ah
Charging Mode	Automatic charging with the charging pile(Additional purchase is required); Manual charging with the bundled recharger.
Charging Input	100-240V~, 50/60Hz
Charging Time	About 2h

Hardware

Machine Material	ABS and aluminum alloy
Positioning Method	Sensor Fusion(LiDAR and VSLAM Sensor)
Positioning Accuracy	Centimeter level
Sensing Techniques	LiDAR, Stereo Vision Sensors, Collision Sensor, IMU(Inertial Measurement Unit), VSLAM Sensor, Line Laser Sensor, Ultrasonic Sensor, RGB Camera
Sensor Coverage	LiDAR detection range: 240°(TBD)， <=25M; Stereo Vision Sensor horizonal coverage: 170°
Network	Wi-Fi ; ESP01; 4G
Operation Screen	11.6 inch(1920 x 1080)
Interactive Ability	Light/Touch/Voice Prompts

System and Function

System	Linux(Control) & Android(Interact)
App Language	Chinese, English, Japanese, Korean, French, Thailand, German
App Functions	Immediate Cleaning/Scheduled Cleaning/Manual Cleaning/Teaching Mode

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