PUDU CC1 Pro

AI-Powered Autonomous Cleaning Robot

- AI Spot Scrubbing
- AI Real-Time Cleaning Performance Detection
- AI Cleaning Intensity Control
- AI Components Self-Monitoring
- 4-in-1 Versatile Cleaning
- VSLAM+ Positioning
- AI-driven Perception
- IEC 63327 Certification

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PUDU VSLAM+

Unlimited by Space, Unmatched in Cleanliness: Powered by a fusion of VSLAM and LiDAR, the robot navigates complex environments with high accuracy—no QR codes required.

AI Spot Scrubbing

Combining AI vision recognition with dynamic path planning, the system detects common wet stains—like coffee spills, sauces, and puddles—in real time during inspections and instantly generates optimal cleaning routes.

AI Real-Time Cleaning Performance Detection

CC1 Pro features the world's first rear AI camera to monitor cleaning performance in real time.

AI Cleaning Intensity Control
Adaptive Strategy for Optimal Cleaning

Stubborn Stains Detection

Detects stubborn stains and boosts cleaning power as needed, ensuring deeper, more thorough cleaning.

Floor Cleanliness Monitoring

Detects cleanliness levels and automatically switches modes.

Floor Type Detection

Automatically adjusts cleaning modes based on floor type.

AI Components Self-Monitoring

CC1 Pro's rear AI system monitors cleaning components in real time, detects maintenance-related issues that cause secondary contamination, and triggers automatic marking, touch-up cleaning, or self-cleaning.

Dimensions 629 x 552 x 695 mm (24.76 x 21.73 x 27.36 in)	**Weight** 75 kg (165.35 lbs)
Battery Capacity 50 Ah	**Charging Time** About 3 h
Run-time Scrubbing: 5h; Sweeping & Vacuuming: 5h; Carpet Vacuuming: 4h; Silent Mopping: 9h	**Cleaning Efficiency** 700–1000 ㎡/h (837.19–1195.99 yr²/h) (All-covered Cleaning) 1500–3000 ㎡/h (1,793.99–3,587.97 yd²/h) (Spot Cleaning)
Navigation LiDAR + Visual Fusion Positioning	**Cruising Speed** 0.2 m/s ~ 1.2 m/s (0.66 ft/s ~ 3.94 ft/s) (Adjustable)
Min. Path Clearance 70 cm (27.56 in)	**Capacity** Dustbin Capacity : 2.5 L (0.66 gal) / 6 L (1.59 gal) (Dust bag) Clean Water Tank: 15 L (3.96 gal) Dirty Water Tank: 15 L (3.96 gal)