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 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.



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.



- 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 m^2/h (837.19-1195.99 yr^2/h) (All-covered Cleaning)
  1500-3000 m^2/h (1,793.99-3,587.97 yd^2/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)



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