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PRODUCT BROCHURE
2026 edition

PUDU ROBOTICS · AI CLEANING
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CC1 Pro

**AI-powered 4-in-1
commercial cleaning robot
for retail, hospitality,
healthcare and office
buildings**

Scrubs, sweeps, vacuums and dust-
mops — finds the dirt itself, checks its
own work and reports the result.



Available worldwide from Robotix Market
robotixmarket.com

OVERVIEW

A cleaning robot that finds, cleans and verifies

CC1 Pro is Pudu Robotics' AI-powered autonomous cleaning robot for commercial floors. It combines four cleaning methods in one 75 kg machine, navigates with LiDAR and vision instead of floor markers, and — uniquely — carries a rear AI camera that checks the floor it has just cleaned. The result is cleaning that adapts to what it finds and can be measured afterwards.

Four jobs in one machine

Scrubbing, sweeping, vacuuming and dust-mopping in a single robot — hard floors and carpet, with the module for each task.

Checks its own work

The world's first rear AI camera inspects the floor it has just cleaned, re-cleans what it missed and produces a heatmap of the result.

Runs itself, day after day

Returns to the dock to charge, refill and drain by itself; the self-cleaning station washes the roller brush and squeegee.

AI that looks for the dirt

AI spot scrubbing recognises coffee, sauce and puddles in real time and plans a route straight to them, at 1,500–3,000 m²/h.

Navigates without markers

PUDU VSLAM+ fuses LiDAR and vision, so large, changing spaces are mapped with no QR codes on the floor.

Reports you can act on

Debris hotspot maps, cleaning-performance heatmaps and an operation dashboard turn every task into data for the facility team.



4-in-1

SCRUB · SWEEP ·
VACUUM · MOP

3,000

M²/H AI SPOT
CLEANING

9 h

SILENT MOPPING
PER CHARGE

15 + 15 L

CLEAN / DIRTY
WATER

IEC 63327

CERTIFIED

Four cleaning modes, one robot

RUN-TIME PER CHARGE

5 h

Scrubbing

Roller brush with 15 L of clean water, squeegee dries the floor behind it

5 h

Sweeping & vacuuming

Hard floors: sweeps debris and vacuums it into the dust bag in one pass

4 h

Carpet vacuuming

Detects carpet automatically and switches to vacuum-only

9 h

Silent mopping

Dust-mopping module for quiet daytime runs in occupied spaces

BUILT FOR THE JOB

Every part of CC1 Pro has a job

10.1-inch LCD screen

Touch interface with visual and audio cues; task status at a glance

LiDAR + VSLAM camera

Marker-free positioning that fuses laser and vision

RGBD ×2 · RGB ×2 · line laser ×3

Omni-Sense perception for static and moving obstacles

50 cm cleaning path

Roller brush plus side brush reach along walls and shelving

Rear AI camera

Watches the cleaned floor and the cleaning components in real time

Emergency stop

Top-mounted stop button, visible from any side

Squeegee & 15 L tanks

Dry pass after scrubbing; clean and dirty water tanks of 15 L each

Hub-motor drive

0.2–1.2 m/s, adjustable; clears 20 mm thresholds and 70 cm aisles



FRONT



REAR

629 × 552 × 695 mm

DIMENSIONS (L × W × H)

75 kg

WEIGHT

70 cm

MINIMUM AISLE WIDTH

20 mm

THRESHOLD IT CAN CROSS

What sets CC1 Pro apart

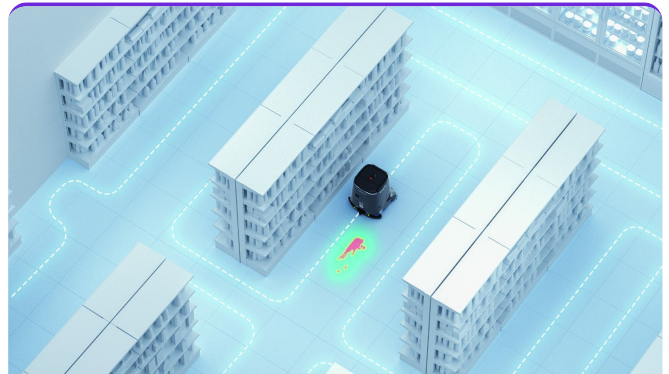
AI spot scrubbing, 3× the efficiency

AI vision recognises common wet stains — coffee, sauces, puddles — during inspection runs and immediately generates the shortest cleaning route to them. Targeted cleaning covers 1,500–3,000 m²/h instead of scrubbing the whole floor.



Rear AI camera checks the result

The first rear AI camera on a cleaning robot detects leftover stains, triggers spot re-cleaning and monitors brushes and squeegee for issues that cause secondary contamination.



Heatmaps and measurable cleaning

A debris hotspot map shows where dirt accumulates; a performance heatmap marks stains that survived several passes, so staff go straight to them.



Omni-Sense safety

An AI perception system detects static and moving obstacles continuously; routes are re-planned within a second and missed areas are revisited once the obstacle has gone.



24/7 with the docking station

Automatic charging, water refill and drainage at the dock; the self-cleaning station also washes the roller brush and squeegee. A mobile water station needs no plumbing.

Large floors, busy spaces, changing layouts

Supermarkets & retail

Aisles cleaned between shelves and trolleys, spills found and scrubbed before a customer walks through them.

Hotels & hospitality

Lobbies, corridors and back-of-house floors kept to a consistent standard on a schedule, with quiet silent-mopping mode.

Healthcare

Repeatable, documented floor care for waiting areas and corridors, with heatmaps that show what was done and where.

Offices & corporate buildings

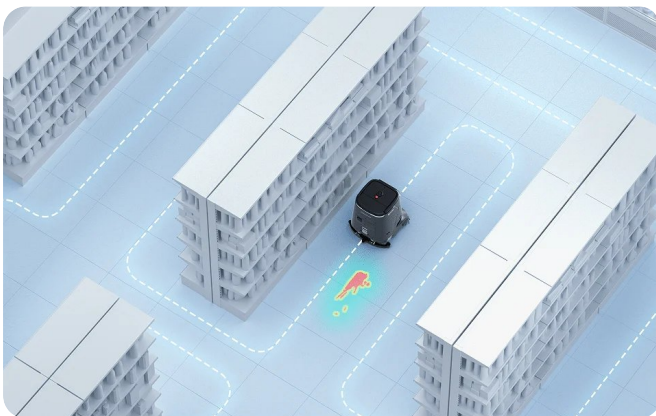
Night or off-peak runs across large floor plates; elevator and e-gate control take it between floors.

Education & campuses

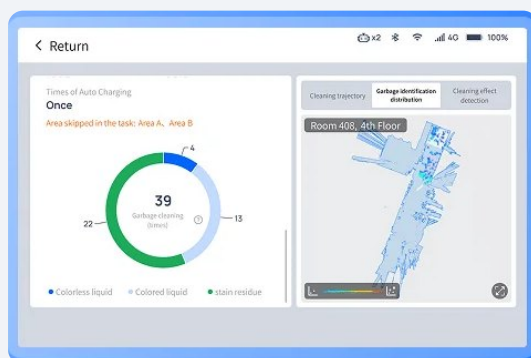
Canteens, halls and walkways covered on a routine so the caretaking team can focus on what a robot cannot do.

Transport hubs & public buildings

High-traffic concourses with changing layouts — VSLAM+ re-plans routes in real time as the space changes.



Tasks, schedules and maps are managed in the PUDU Link app and PUDU Cloud; optional e-gate and elevator control let CC1 Pro move between floors, and IoT modules connect it to building systems.



Managed from a phone, reported to the cloud

The PUDU Link app starts tasks, sets schedules and shows robot status; PUDU Cloud keeps the record — cleaning duration and area, task completion, power and water use, maintenance frequency — and raises alerts when something needs attention.

CC1 Pro at a glance

CLEANING

Cleaning methods	4-in-1: scrubbing, sweeping, vacuuming and dust-mopping
Cleaning width	50 cm (with side brush)
Cleaning efficiency	700–1,000 m ² /h all-covered cleaning · 1,500–3,000 m ² /h AI spot cleaning
Water tanks	Clean water 15 L · dirty water 15 L
Dust collection	Dustbin 2.5 L · dust bag 6 L
Brushes & modules	Roller brush (hard / soft), sweeping brush, side brush, squeegee; dust-mopping and carpet-vacuuming modules
Self-cleaning	Roller brush and squeegee self-cleaning (with self-cleaning docking station)

AI CLEANING FUNCTIONS

AI Magic Cleaning	Sensors, hub motors, side and roller brushes working in sync
AI spot scrubbing	Detects wet stains (coffee, sauces, puddles) in real time and plans a targeted route
AI adaptive cleaning	Stubborn-stain detection, floor-cleanliness monitoring, floor-type detection (hard floor vs carpet)
Performance detection	Rear AI camera checks the cleaned floor, triggers spot re-cleaning and builds heatmaps
Components self-monitoring	Rear AI system watches brushes and squeegee and triggers marking, touch-up or self-cleaning
Reporting	Debris hotspot map, cleaning-performance heatmap, operation dashboard (PUDU Cloud / PUDU Link app)

NAVIGATION & SAFETY

Positioning	PUDU VSLAM+: LiDAR + visual fusion, no QR codes or markers required
Sensors	LiDAR, VSLAM camera ×1, RGBD ×2, RGB ×2, line laser ×3, rear AI camera
Perception	Omni-Sense: static and moving obstacles detected continuously; recognition model updated over time
Cruising speed	0.2–1.2 m/s, adjustable
Minimum path clearance	70 cm
Maximum obstacle height	20 mm
Certification	IEC 63327 (autonomous floor-treatment machines)

POWER

Battery	50 Ah
Run-time per charge	Scrubbing 5 h · sweeping & vacuuming 5 h · carpet vacuuming 4 h · silent mopping 9 h
Charging time	About 3 h
Automatic charging	Returns to the docking station by itself (optional docking station)
Water refill & drainage	Automatic with the docking station or self-cleaning docking station; mobile water station needs no plumbing

BODY & CONNECTIVITY

Dimensions (L × W × H)	629 × 552 × 695 mm
Weight	75 kg
Display	10.1-inch LCD touch screen
Communication	4G, Wi-Fi, Bluetooth
Building integration	E-gate and elevator control (optional); IoT modules
Accessories	Docking station, self-cleaning docking station, mobile water station, advertising screen, warming lamp, custom skin

Sources: Pudu Robotics CC1 Pro product page (pudurobotics.com/en/products/cc1-pro), PUDU CC1 Pro product flyer (May 2025) and the PUDU commercial cleaning robots brochure (April 2026); robotixmarket.com. Figures are the manufacturer's; where a value is not published it is left out rather than estimated. Accessories such as the docking station are optional.

NEXT STEP

Put CC1 Pro on your floor plan

Tell us about the space — floor types, area, opening hours and how the robot should get between zones. We will come back with a configuration, a delivery estimate to your address and a formal quotation.

Request a quotation

Web · robotixmarket.com/products/pudu-robotics-cc1-pro

Email · info@robotixmarket.com

Prices and configuration on request. Robotix Market ships worldwide.



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Supplied through established distribution channels.

Manufacturer warranty

Every robot ships with the full Pudu Robotics manufacturer warranty and official documentation.

Support

Technical support is coordinated with the manufacturer's service network.

See it in action

youtube.com/watch?v=UtPAdNEhZE0 · youtube.com/watch?v=n11KgZnrjMA · youtube.com/watch?v=uiZnAyG_2XI