

MEET

ALIX

The autonomous restroom-cleaning robot, built for high-traffic facilities. LiDAR vision, natural-language voice commands, and onboard LLM intelligence.

SMART. | INTELLIGENT. | ALWAYS CLEAN.



12

AXIS JOINTS

*4 hrs

RUNTIME

5 min

PER STALL

WHY ALIX

A purpose-built cleaning specialist.

ALIX is the first autonomous robot engineered specifically for restroom and washroom environments. It combines LiDAR-based spatial awareness, dual humanoid arms, and a voice-driven operating model to deliver consistent, auditable cleaning around the clock.

Autonomous Navigation

LiDAR SLAM maps spaces and avoids people and obstacles safely in real time.

Restroom Specialist

Cleans toilets, urinals, sinks, and mirrors with precise, purpose-built toolheads.

Voice Commands

Talk to ALIX naturally — its onboard LLM understands instructions and zones.

Eco Efficiency

Optimized water and chemical usage lowers operating cost and environmental footprint.

Smart Reporting

Cycle logs, consumables tracking, and compliance insights, ready to export.

Safety & Compliance

Edge detection, fall prevention, and a complete audit trail for every cycle.

HOW IT WORKS

Four steps from deployment to clean.

ALIX is designed so any facilities team can deploy it without specialist training. The system maps the environment, accepts voice commands, runs the cycle autonomously, and reports back — every time.

01

Map & Plan

LiDAR scans the restroom and generates cleaning routes and zones. ALIX builds a spatial layout to plan efficient coverage for every cycle.

02

Voice Assign

"ALIX, clean Mirror A and Sink Zone B." The onboard LLM parses your instructions and maps them to the right zones automatically.

03

Autonomous Clean

Toolheads clean toilets, urinals, sinks, and mirrors while litter is collected. ALIX adapts in real time to people and obstacles.

04

Report & Refill

Cycle summaries and consumables tracking are generated for compliance. Alerts and exports help supervisors keep operations smooth.

TECHNICAL SPECIFICATIONS

Engineered for continuous operation.

12	*4 hrs	5 min	140 kg
AXIS JOINTS	RUNTIME	PER STALL	WEIGHT

POWER

Voltage	100–240V AC, 50/60Hz
Battery	Lithium 36V / 32Ah
Charging time	2–3 hours
Runtime	Up to 4 hours

NAVIGATION

Technology	LiDAR / SLAM
Safety	Cliff sensors
Detection	Obstacle avoidance
Zones	Virtual boundaries

CONNECTIVITY

Wireless	4G support
App control	iOS & Android
Features	Remote operation
Monitoring	Real-time status

DIMENSIONS

Size	45 × 45 × 120 cm
Weight	140 kg
Clearance	11 cm
Design	Compact

ENVIRONMENT

Min temp	0 °C
Max temp	60 °C
Climate	Various conditions
Usage	Indoor primary

DOCKING STATION

Side clearance	0.5 m each side
Front clearance	0.5 m
Power proximity	Within 1 m of outlet
Floor	Flat, hard surface

CLEANING CAPABILITIES

What ALIX can do.

Sanitary Fixtures

Toilet, flush valve, and urinal cleaning.

Washing Areas

Washbasin and mirror maintenance.

Floor Cleaning

Spillage around fixtures and edges.

Waste Management

Picks up and disposes of tissue paper.

Door Operation

Autonomous open/close capability.

Elevator Access

Multi-floor navigation capability.

WHERE ALIX PERFORMS BEST

Built for the busiest spaces.

Malls & Retail

Deliver spotless guest experiences during peak hours.

Airports & Transit

Round-the-clock cleaning at scale with predictable results.

Offices & Campuses

Round-the-clock cleaning at scale with predictable results.

Stadiums & Venues

Fast turnarounds between events with fewer staff hours.

READY TO DEPLOY?

Get a quote or schedule a site demo.

Tell us about your facility, and our team will tailor a deployment plan — including site survey, pilot scope, and rollout timeline.

WEB

butterfli.ai

REQUEST A QUOTE

butterfli.ai/contact-us

