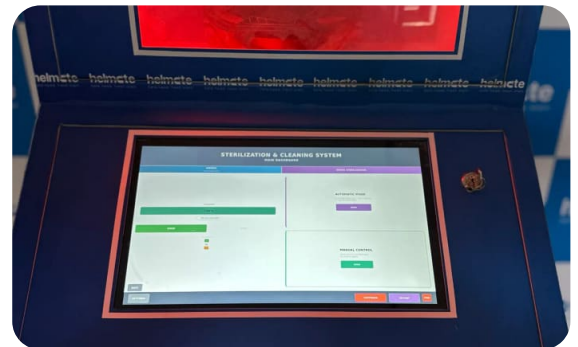


HELMATE Helmet & Footwear Hygiene System

Advanced dual-chamber sanitization, drying & deodorizing technology

"Safe head, fresh start"



99.9% UVGI

Germicidal sterilization



110°C thermal

Aerosol deodorization



Smart hot-air

Thermal drying



High-power vapor

Vacuum extraction



Dual-chamber

Smart EM lock



Eco-friendly

Chemical-free cleaning

MANUFACTURED BY

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A smarter way to everyday hygiene

In today's fast-paced mobility ecosystem, helmets and safety footwear are essential daily gear. Continuous wear traps sweat, heat and humidity inside — creating an ideal breeding ground for harmful bacteria, fungi and unpleasant odors.

At Helmate we believe personal safety should never come at the cost of personal hygiene, scalp health or comfort. Our mission is to transform how people care for their everyday safety gear through intelligent, automated and chemical-free sanitization technology.



Scalp & skin health

99.9% of bacteria and fungi eliminated every cycle.



Helmet compliance

Clean gear encourages consistent, comfortable use.



Workplace wellness

Hygiene infrastructure for teams, riders and members.



Chemical-free

UV, heat and air only — zero chemical residue.

Key features & advantages

Engineered for performance, safety and ease of use

4-in-1 deep cleaning technology

Seamless integration of UVGI light, 110°C thermal aerosol fogging, hot-air drying and high-power vacuum extraction.

Dual independent control chambers

Separate chambers for helmets and shoes/socks, each with its own controls and digital timer.

Automatic EM locks with safety pause

Electromagnetic locks secure the doors during operation. Opening a door mid-cycle triggers an instant safety pause.

110°C thermal aerosol fogging

Activates strictly at 110°C to penetrate deep padding fibers and eliminate stubborn odors.

Helmet interiors can harbour more bacteria than a toilet seat within a week of daily use. The Helmate 4-in-1 cycle is designed to break that cycle every single day.

How Helmate works

The 4-stage sanitization workflow



STAGE 1

UVGI sterilization

Eliminates 99.9% of micro-organisms.



STAGE 2

Aerosol disinfection

Thermal fogging at 110°C or above neutralizes odors.



STAGE 3

Thermal drying

Heated air quickly dries sweat and moisture.



STAGE 4

Vapor extraction

Vacuum evacuates residual smoke and moisture.

Ideal applications



Corporate offices & IT parks



Logistics & delivery hubs

Showrooms & workshops



Sports academies & gyms



Biker clubs & rentals

Machine components & controls

Part 2 · User manual — know your device

Familiarize yourself with each part before first use to ensure safe and efficient operation.



Chamber A — helmet module

Custom internal mounting fixture designed to fit all helmet sizes securely.



Chamber B — footwear & socks module

Dual-stand arrangement for shoes and socks.



Control panel & display

Independent digital timers and process mode selectors for each chamber.



Electromagnetic (EM) door locks

High-security automatic locking system that engages during active cycles.



Vapor extraction system

Integrated suction vents for rapid moisture and vapor removal.

Operating instructions

The 4-stage sanitization cycle, explained

STAGE	NAME	FUNCTION & TEMPERATURE
Stage 1	UVGI sterilization	UV-C germicidal irradiation eliminates 99.9% of micro-organisms.
Stage 2	Aerosol disinfection	Thermal fogging activates at 110°C or above to neutralize deep-set odors.
Stage 3	Thermal drying	Heated air circulation quickly dries sweat and moisture.
Stage 4	Vapor extraction	High-powered vacuum evacuates residual smoke and moisture.

Step-by-step operation

- 01

Load gear
Place the helmet or footwear inside the respective chamber and shut the door securely.
- 02

Select mode
Auto cycle — press START for a complete sequential 4-stage clean. Manual cycle — select a single stage, such as drying only, and set the duration.
- 03

Completion
EM locks engage automatically during the cycle. An audio beep signals completion and releases the doors.

Always ensure the chamber door is fully closed before starting a cycle. The EM lock will not engage — and the cycle will not begin — until the door is securely shut.

Troubleshooting & maintenance

Quick fixes for common issues

ISSUE	POSSIBLE CAUSE	RESOLUTION
System won't start	Door open / reed switch disengaged	Ensure the door is firmly shut until the panel displays “Ready”.
No aerosol fogging	Temperature threshold not reached	Wait for the heater to reach 110°C — status is visible on the panel.
Door cannot be opened	EM lock active mid-cycle	Wait for the cycle to complete, or press STOP.
Cycle paused unexpectedly	Door opened during cycle	Close the door firmly to automatically resume the cycle.

Maintenance tip: wipe chamber interiors weekly with a dry microfiber cloth and keep the vapor extraction vents free of dust for consistent long-term performance.

Support & enquiries

Sales, installation, servicing and spares

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