

AUTONOMY & SAFETY CHARTER

CONTROL, TELEMETRY & SPECTATOR PROTECTION

VERSION 1.5 · ADAPTIVE STANDARD

Public competition draft · Under continuing technical and legal review

The world championship of physical AI
Expo Tel Aviv, Pavilion 2
May 18–19, 2027

Rules and technical specifications may change. The committee will notify registered teams through official bulletins before any change takes effect.

Purpose and authority

This charter defines minimum control, telemetry, battery, emergency-stop, containment, and spectator-protection requirements across A-01 through A-10.

Control modes

- Fully autonomous: no human command changes task execution after green.
- Declared teleoperation or hybrid: permitted, with one +60-second penalty for active human assistance.
- Undisclosed human input is prohibited.
- Loss of communication must produce the declared safe state within the approved timeout.

Mandatory safeguards

- A physical dual-channel emergency stop accessible to the team and officials.
- Battery containment, charging, and transport documentation appropriate to the installed chemistry.
- Energy, speed, tool, and effector limits declared before inspection.
- A controlled restart procedure after any red flag.
- Protective arena separation designed for the hazards of each competition.

Floor crew limit

No more than five credentialed crew members may be inside the live arena perimeter during an active heat. One must be the named safety and emergency-stop lead. Exceeding the limit adds a +10-second penalty to that run.

Specific material controls

- A-05 electrical fixtures are de-energized sealed dummies; the cell contains no live exposed conductors.
- A-10 contains 6 fluorescent-water and 6 metallic-confetti balloons only. Airborne pigment powder is prohibited.

Adaptive Standard and red flags

Recoverable errors use penalties. A red flag is reserved for conditions that cannot safely continue, including uncontained fire, uncontrolled high-energy motion, structural collapse, barrier breach, or a failed emergency-stop response.

Updates and team notice

Rules may change for safety, fairness, or venue operations. The committee will notify registered teams through official bulletins before changes take effect.