



IPSC IT FEST 2026

Inspection and Safety

Terra Incognita

The Doon School

DEHRADUN

This document is part of the Terra Incognita document pack. It sets out the inspection checklist and the safety rules that apply during the official run.

1. Inspection checklist

#	Check	Pass condition	Reference
1.1	Robot dimensions and weight	The robot measures a maximum of 20 cm × 20 cm × 20 cm, and its weight is not more than 5 kg.	Robot Specification §1
1.2	Battery	The battery capacity is not more than 10,000 mAh, and the battery is securely mounted.	Robot Specification §2
1.3	Start switch	The robot has a physical switch that starts it.	Robot Specification §4.2
1.4	No LIDAR	No LIDAR sensor is fitted.	Robot Specification §3.2
1.5	Code	The code contains no hardcoded logic, which means no stored arena layout, no stored obstacle positions and no fixed sequence of movements that depends on the arena layout. Each team member answers the inspector's questions about the code and explains it entirely.	Robot Specification §9.2, §10.2
1.6	Centre mark	A visible cross is on the robot's top surface at the centre of its length and width.	Robot Specification §1.2
1.7	Map display	The team shows how the robot will present its grid map on an HDMI monitor, with the team's own cables and adapters.	Robot Specification §7

2. Procedure

2.1 The event team (the Event Head or a Deputy Event Head) inspects each robot and checks its code. Inspection takes place in the inspection slots in the Fest schedule: on the evening of 7 December and the morning of 8 December. Every robot must pass inspection before its official run.

2.2 If a robot fails inspection, the team is told which checks failed. The team may fix its robot or code and present it for re-inspection within the inspection slots. A robot that has not passed inspection when its official run is called does not take part in the competition.

2.3 A robot that is modified after it has passed inspection must be re-inspected before its official run.

3. During runs

3.1 All robots must be constructed and operated safely. A robot may not contain or use components that are reasonably likely to:

- damage the arena;

- injure participants or officials;
- damage other robots or equipment;
- create an uncontrolled hazard.

3.2 Any mechanism specifically designed to damage, break, remove or significantly interfere with the arena is not permitted. The organisers have the final authority to determine whether a particular robot or mechanism presents an unacceptable safety or arena-damage risk.

3.3 Batteries must be securely mounted and safely integrated into the robot.