

What is D4 Drone system?

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Key facts about D4 Drone System:

- **What is it?** The Drone Detect, Deter and Destroy system (D4S) is the **first indigenously developed anti-drone system** to be inducted into the Indian Armed Forces.
- It is **developed by** Defence Research and Development Organisation (**DRDO**) and **manufactured by Bharat Electronics Limited (BEL)**.
- **Purpose:** To **detect rogue drones** that are likely to attack most vulnerable places.
- **Features:**
 - D4 system can **instantly detect and jam** micro drones (**Soft kill**) and use a **laser-based kill mechanism** to terminate targets (**Hard kill**).

- It **uses DRDO's RF/Global Navigation Satellite System (GNSS) to detect the frequency** which is being used by the controller and the signals are then jammed.
- It can **detect and jam** micro-drones at a distance of **up to 3 km**.
- It can **lase a target 1-1.25 km far** depending on the wattage of the laser weapon.

About Aero India:

- It is a biennial air show and aviation exhibition held in Bengaluru, India at the Yelahanka Air Force Station.
- It is organised by the Defence Exhibition Organisation, Ministry of Defence.

Q1) What is an anti-drone system?

Anti-drone systems are designed to counter-drone technologies and interfere with them in various ways and are used to detect and/or intercept unwanted drones and unmanned aerial vehicles (UAVs).

Source: [AI to missile systems, BEL to put up big show at Aero India](#)

Source: <https://vajiramandravi.com/current-affairs/what-is-d4-drone-system/>

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