

What is **Remote ID?**

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What is Remote ID?

Remote ID is a system that allows drones to transmit identification and location information. This information can be received by other airspace participants, including authorities, pilots and the general public.

Why is Remote ID needed?

The primary purpose of Remote ID is to enhance drone operations' safety, security, and accountability, particularly in areas where drones may be operating near other aircraft or in sensitive locations. It can also help prevent the unauthorized or even illegal use of drones, such as smuggling, spying, or attacks.

Who is responsible for mandating Remote ID?

The Federal Aviation Administration (FAA) and European Aviation Safety Agency (EASA) are responsible for regulating the use of drones in the US and EU. Both have established a regulatory framework for Remote ID that requires most drones operating in the regions to be equipped with a Remote ID system by a specific date. Other countries may have similar regulatory frameworks in place or are in the process of developing them.

What types of Remote ID exist?

- Direct / Broadcast Remote ID. It uses Wi-Fi or Bluetooth to broadcast Remote ID data to close surroundings. Naming varies by location: In the **EU**, **Direct Remote ID** is used; in the **US**, it is named **Broadcast Remote ID**.
- Network Remote ID It uses cellular networks for transmitting data.

Who has to use Direct / Broadcast Remote ID?

Under new regulations in the US and EU, most drones weighing more than 249 grams (0.55 pounds) must be equipped with a Direct / Broadcast Remote ID system by a certain date. This responsibility applies both to recreational drones and commercially flown drones.

There are exceptions to this obligation for specific types of drone models operated according to specific guidelines or for government and other authorized entities. These exceptions differ across regions.

Besides the US and EU, other countries have adopted similar regulatory frameworks or are currently developing them. Drone operators must know and comply with applicable Remote ID regulations in their regions.

It is also important for drone operators to be aware that Remote ID requirements may vary between EU member states. They must always comply with the specific requirements of the country where they operate.

Who has to use Network Remote ID?

Network Remote ID is mandatory for the upcoming EU airspaces called U-space. The main purpose of Network Remote ID is to establish a reliable and secure connection between drones and operators in the U-space ([see below](#)). Network Remote ID is fundamental to advanced operations such as BVLOS flights, drone deliveries, and integrating manned and unmanned traffic in the same airspace.

There is currently no Network Remote ID mandate in the US region.

Who can see data broadcasted from my drone?

Drones' Direct / Broadcast Remote ID transmits data only to its immediate surroundings. This signal can be captured by anyone with the appropriate equipment, for example, a specialized receiver or mobile application using smartphone hardware. Wi-Fi and Bluetooth are the only approved Direct / Broadcast Remote ID technologies.

While with Network Remote ID, your data are shared with relevant authorities, U-space participants, collaborators and service providers. [Learn more here](#).

Can I fly without Remote ID?

No, unless your operation and drone size fit into one of the exemptions from Remote ID requirements. Failure to comply with the new regulation can result in fines or penalties.

Where can I buy a Remote ID module? How much does it cost?

Besides drone models with Remote ID capability built in by manufacturers, many companies offer Remote ID add-on devices, which come in various shapes, sizes, and functionalities. These devices have different battery life, Remote ID capabilities, and weight. They may also vary in other factors you must consider before purchasing.

Find the list of companies providing Remote ID solutions in the table below: