

Types of Unmanned Vehicles

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Breakdown

- ◆ Unmanned Aerial Vehicles (UAV)
- ◆ Unmanned Ground Vehicles (UGV)
- ◆ Waterborne Unmanned Vehicles (USV & UUW)



Unmanned Aerial Vehicles (UAV)

Unmanned Aerial Vehicles (UAV)

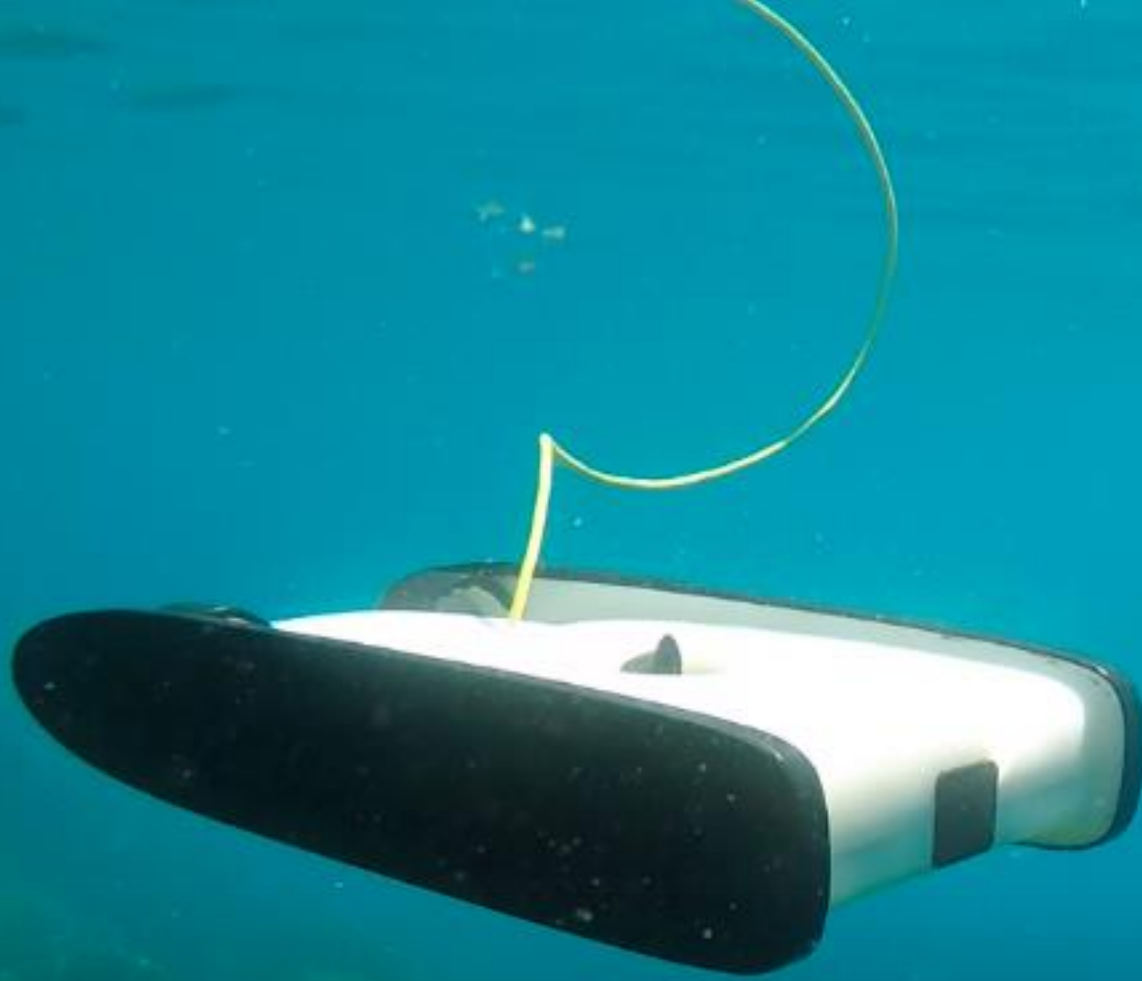
- ◆ Aircraft that carries no human pilot or passengers.
- ◆ Most popular UGV used by the industry and the public
- ◆ Carries a wide range of sensors such as high-resolution cameras, infrared sensors, LiDAR, speakers, searchlights and transmit the data to the user
- ◆ Able to access difficult to reach locations due to small size and transportation using air space
- ◆ Able to travel and transport cargo very efficiently.



Unmanned Ground Vehicles (UGV)

Unmanned Ground Vehicles (UGV)

- ◆ Increases the efficiency of point to point transportation and also increases user safety of tasks by being able to reach in unsafe environments to accomplish tasks
- ◆ Mostly used in industries such as military, law enforcement (Bomb Squad), Search & Rescue, Factory manufacturing, Hospitality and many more
- ◆ Usually custom made to fit its application
- ◆ Existing ground machines are usually retrofitted to become UGV



Unmanned Waterborn Vehicles

Waterborne Unmanned Vehicles (USV & UUV)

- ◆ Can be split into Unmanned Surface Vehicles & Unmanned Underwater vehicles
- ◆ Used in many sectors such as government, military, commercial, oil and gas, and surveying
- ◆ Usually deployed for water related tasks such as sea mapping, transporting goods, underwater item recovery and many more
- ◆ Design is more complex due to waterproofing while also maintaining good heat ventilation