

# MARITIME DRONE

Monitoring system using marine drones







# JD Co.,Ltd.

- Maritime drones
- Maritime drones capable of real-time observation/ analysis of weather and maritime environments

#### Maritime drones with IoT-based smart autonomous operation and remote adjustment for management of natural ecosystem environments

Equipped with core technologies needed for maritime management, allowing for a variety of measurement and management tasks with only operation of developed drones to minimize waste of time and resources

Allows for efficient water system management with a low-cost environmental observation system

Key items that identify the movement and behavior characteristics of underwater objects and convert them into visual signals to provide convenience to users







# Company introduction

Company name	JD Co.,Ltd.
Date of founding	2017. 06. 07.
🔏 CEO	Joong-gun Park







### -• Maritime drone construction process

Development of hull by applying ship design technology



## Maritime drones

Maritime drones capable of autonomously recovering when capsized in an unstable maritime environment and measuring temperature/salinity, capturing/transmitting video, remote control, and autonomous operation, allowing weather and maritime environment information to be captured in real time

- ▶ Real-time observation of weather and maritime environment information
- ► Remote control and automatic route operation systems
- ► Structural Design to minimize the possibility of overturning in irregular maritime environment
- Maritime drones for coastal observation and securing of water resources

# Maritime drone core technology

Drone operation performance	
Maximum flight speed	5m/s ~ 10m/s
Maximum flight time	5h or more
Remote adjustment range	Remote control and route operation functions
Recovery time after capsizing	Within 30 seconds
Advanced surface management	IP X7

- Autonomous operation and failsafe functions
- ► Real-time video transmission functionality
- ► Water temperature/salinity/fish detection technology
- Ship-type design to allow for autonomous recovery



# Maritime drone development experience

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#### **MARITIME DRONE** : Monitoring system using maritime drones



- ▶ Continuing monitoring of water temperature and depth changes in ocean, rivers, lakes, etc
- ▶ Possible to work in areas that are difficult to access and contaminated waters ▶ Remote control with an integrated management program equipped with
- environmental monitoring equipment











#### MARITIME DRONE : Monitoring system using maritime drones

Maritime drones with pose stability

- In a shaky marine environment, a ship shaped square structure generally has a stable posture and can be controlled in direction
- Maritime drones with pose stability which are able to use their center of gravity to quickly recover (within 30 seconds), even in the event of capsizing













- of manpower
- be continuously managed







In order to prevent problems such as net damage and theft in coastal fish farms and major fishing grounds, it is continuously monitored on behalf

► The marine environment with severe weather environment changes can



#### **MARITIME DRONE**: Monitoring system using maritime drones



- Lifesaving devices(live jackets and tubes, etc.) are deployed in marine and rivers, but it is difficult to deliver to drowning people
- By developing a life-saving water drone that anyone can control wirelessly, marine accidents and casualties can be minimized



Maritime drones for management of maritime environments

- having to enter the water directly







A design of a hull structure that can prevent overturn and retain buoyancy due to the weight of marine environment and collection float by calculating COG during the prevention and collection of spreading of floats



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