

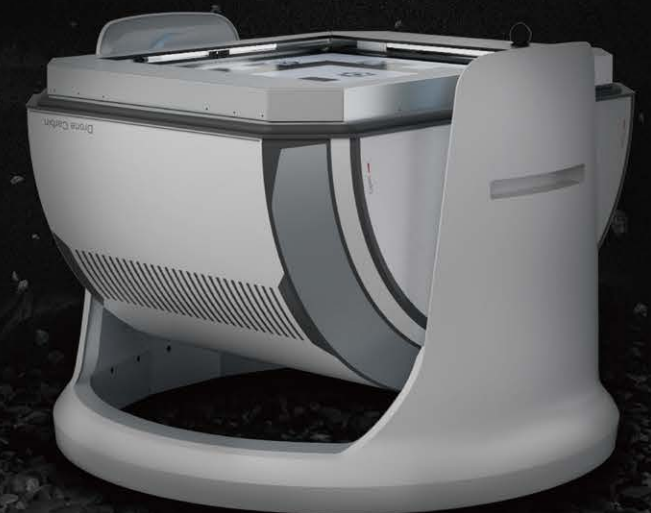
Product Parameter

Index	Content
Dimensions	1460 × 1460 × 1590mm
Weight	130KG
Communication mechanism	Broad band/4G/5G
Compatible UAV	S400
Work mode	Auto charging
Landing positioning	RTK, vision redundancy
Video transmission&control distance	10KM
Work temperature range	-20℃-60℃
Work humidity range	≤95%
Max work altitude	4000m
IP level	IP54
Function	UPS uninterruptible power supply, night landing
Power consumption	1400W (max) /500W (average)
Weather monitoring	Wind speed, rainfall, temperature, humidity, air pressure
AI function	Target(people, vehicle, objects) recognition
Back-end control mechanism	WEB
SDK development	Yes



GDU Auto UAV Dock

Accelerating aerial infrastructure, empower UAV auto mode



GDU-Tech Co.,Ltd

Address : Room 1006, 10th Floor, Tower 1, Novel Park, 4078 Dongbin Road,
Nanshan District, Shenzhen, China

Tel : +0086 400 040 0266 Ext 2

Email : mk@gdu-tech.com



Facebook
@GDU



GDU Website
GDU-TECH.COM

GDU-Tech Co.,Ltd

UVER Smart UAV Dock

GDU launched UVER Smart UAV Dock, which integrates functions such as automatic cruise, automatic take-off&landing, fast charging, high-frequency normal or sudden flight, and intelligent data identification, effectively saving the commute cost of UAV operations. It effectively solve he problems of high commute cost, low efficiency and assist users in various industries to achieve fully autonomous flight and automatic operations

S400 UAV

- 60mins flight time
- AI smart recognition
- 80m omnidirectional barrier avoidance
- Industrial top-tier relay network



4-in-1 camera

8K camera

Megaphone

Floodlight



Flexible deployment

Small size and light weight, it can be flexibly deployed in electric tower pole, roofs, power stations, industrial park and other many mobile scenerios



Environmental awareness

The highly integrated weather station combines the meteorological elements of wind speed, rainfall, temperature, humidity and air pressure, which is easy to install and maintenance-free; surveillance cameras are installed inside and outside the airport to realize 24hrs real-time monitoring, guaranteeing safe working environment for drones.



Reliable performance

It meets IP54 standard, which is durable, and has highly reliable adaptability to complex environments, high temperature resistant, cold, waterproof, moisture-proof, lightning-proof, dust-proof, rust-proof, anti-corrosion, the overall structure can work normally under extreme conditions such as icing.



Airbone AI Chip
Auto Flight



Smart AI

The self-developed airborne AI control system can realize the autonomous operation capabilities of drones such as auto flight planning, auto inspection and patrol, real-time front-end identification, precise positioning and tracking shooting.



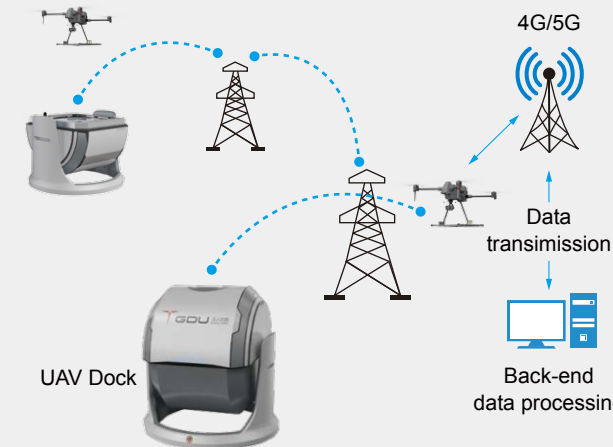
Unmanned duty

Realize the fully automatic take-off of the drone - Automatic task execution - Automatic return - Precise automatic landing - Recovery and parking - Battery charging management, which can meet emergency needs and improve work efficiency without bringing the drone to the site.



Self-developed

From drones to UAV dock, there are all self-developed. It can customized UAVs, payloads and functions on industry basis. By controlling all equipment and UAV Dock from command center, it can achieve full life cycle monitoring and management.

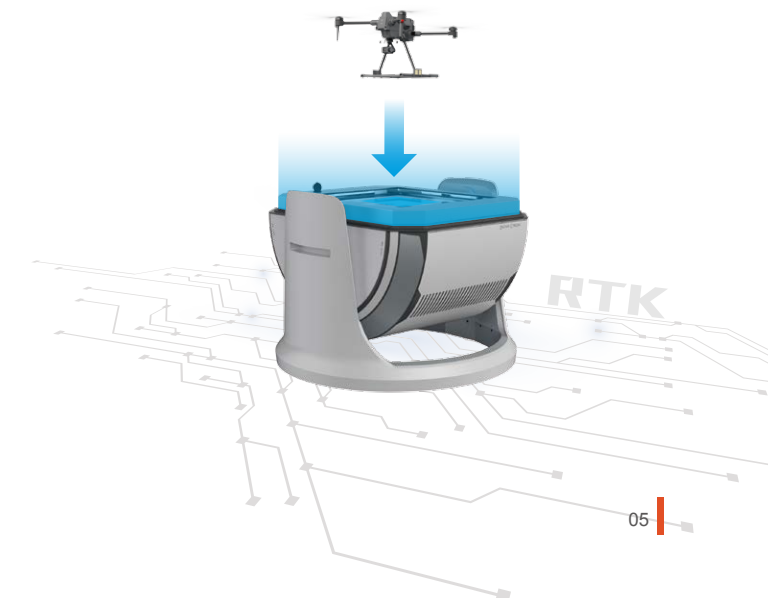


4G/5G data transmission

It can achieve real-time control of UAV flight trajectory, gimbal angle, etc. through 4G/5G network connection. Besides, the 5G network has low latency, high bandwidth, wide network RTK coverage, accurate positioning, and it is not limited by distance. Low-latency control and video transmission for manual real-time control.

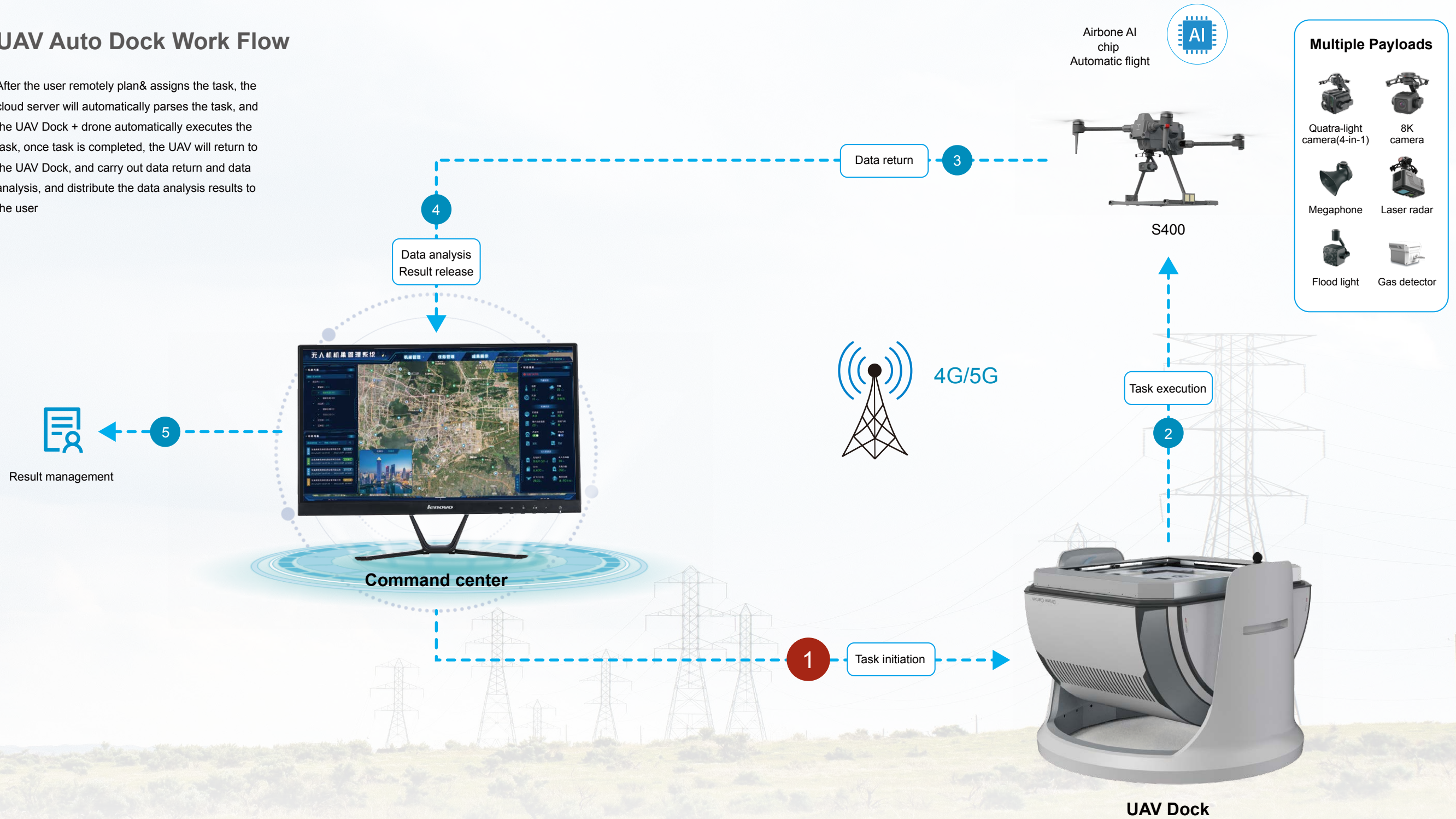
Precise landing

The UAV Dock is equipped with a variety of positioning methods, providing visual RTK redundant landing, supporting UAV remote take-off&landing and it can take off and land autonomously and stably, even at night.



UAV Auto Dock Work Flow

After the user remotely plan& assigns the task, the cloud server will automatically parses the task, and the UAV Dock + drone automatically executes the task, once task is completed, the UAV will return to the UAV Dock, and carry out data return and data analysis, and distribute the data analysis results to the user



UAV Auto Dock Command Center

It uses the network as a media to realize the remote interconnection between the UAV Dock, the command center and the operation site. It can remotely issue tasks to the UAV Dock and the UAV anytime, anywhere, and the UAV Dock and the UAV can realize real-time image transmission, the results will be automatically uploaded after the task is completed.



UVER UAV-sharing Cloud Platform

Through self-developed drones and auto UAV Dock, integrating leading technologies such as big data, machine learning, IoT, AI, etc., to create a drone sharing platform, we are committed to building a low-altitude multi-dimensional data perception ecology to realize scene analysis and processing, forming a low-altitude resource integration and technological innovation platform.



- Cloud deployment

Saving the time of deployment, assignment and dispatch, make it more time-effective and easy-to-upgrade

- Multi-UAV operation

It can realize multi-UAV operation, make it more effective

- Result demonstration

By filtering task time, device name, task types, it can show the operation video and image effectively

- Data precise analysis

Perform refined analysis of each business application scenario to assist users in decision-making

- AI analysis

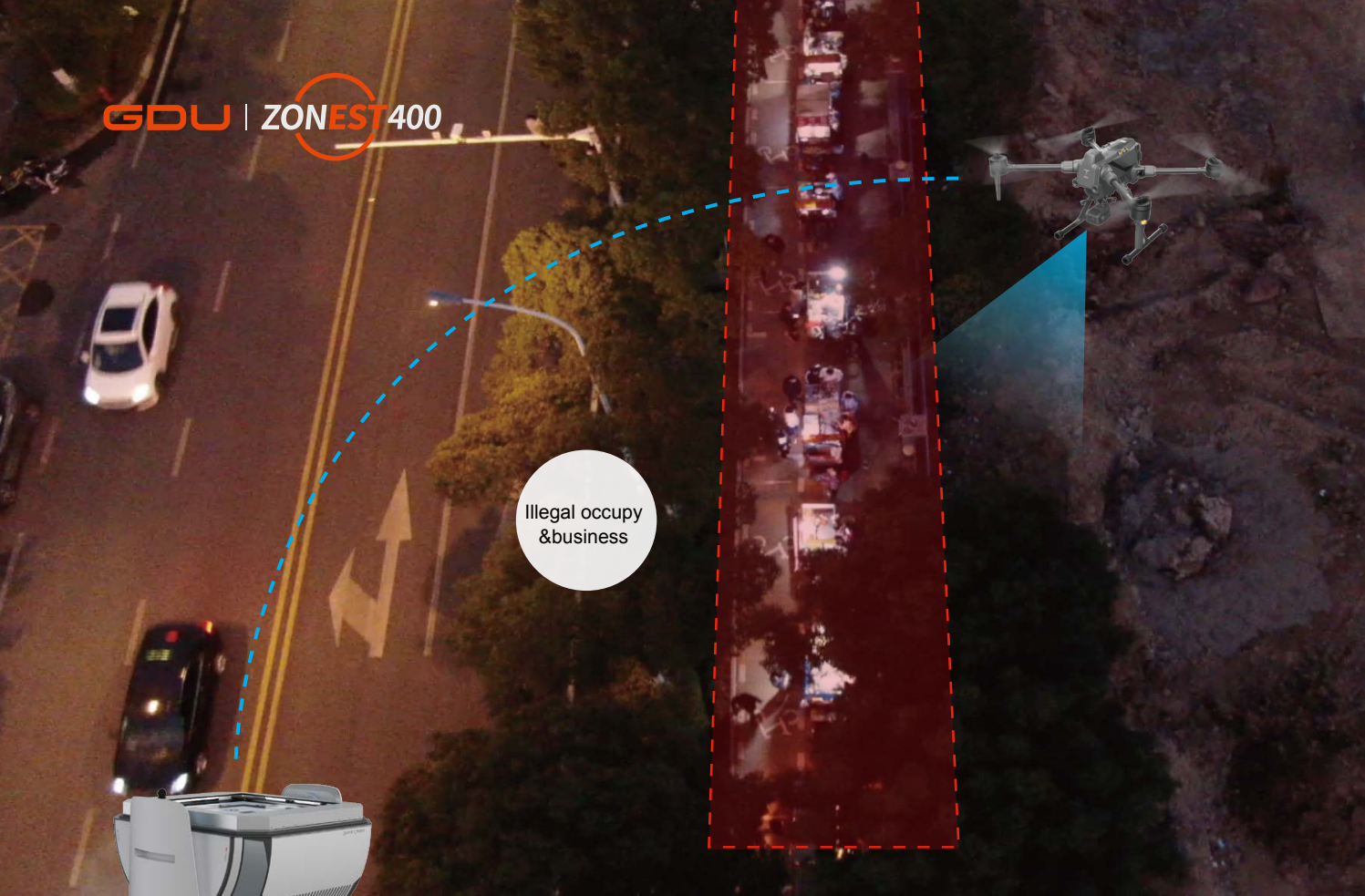
Analyze defects in business scenarios, track and learn from abnormal behavior

Function



Function








Illegal occupy
& business

Urban management automatic inspection and law enforcement

The UVER urban management automatic inspection system replaces manual control through auto UAV Dock, and AI artificial intelligence realizes real-time identification, thereby realizing unattended, long-distance automatic patrol operations.

-  **Smart auto flight:** flight path planning, auto flight, auto charging
-  **Smart AI process:** data collection&analysis, auto process
-  **Smart on-site recognition:** on-site recognition&feedback






Hole-cover
lost



Smart emergency&fire-fighting solutions

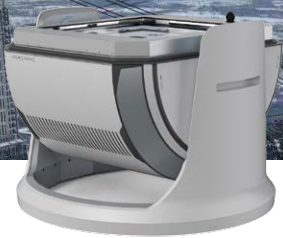
The UAV emergency patrol system can be on standby around the clock, empowering emergency management departments to improve the efficiency of emergency handling and greatly reducing the loss of people's lives and property.

-  **Aerial vision:** The high-altitude viewing angle of the UAV can quickly obtain the overall situation and assist in judging the fire situation
-  **High temperature detection:** Infrared thermal imaging technology to monitor the disaster area and locate the source of danger
-  **Modelling:** Automated route, rapid completion of regional modeling, and data support for scientific command and warfare

Transportation inspection solutions





"5G+ UAV " cruise flight system realizes unattended, real-time monitoring and snapshots of traffic violations, and uses image recognition technology and image control algorithms to improve decision-making and analysis capabilities.





Power solutions

Relying on the power intelligent inspection application platform, based on drones, high-definition payloads, and UAV dock, combined with 3D point clouds, automatic fine route construction, multi-RTK, ad-hoc network, thermal imaging detection, AI intelligent identification, etc. technology, and comprehensively complete intelligent inspection operations.

-  **Unmanned inspection:** The inspection system composed of UAV dock + drone, which can realize unmanned operation, remote control, time-saving and labor-saving
-  **Precise flight path automation:** Automatic identification of tower type, automatic generation of refined track, intelligent and simple planning process
-  **HD camera:** 1K infrared and 8K visible light gimbal, can show details and temperature more clearly
-  **Smart inspection report:** The data analysis system intelligently analyzes the inspection data and automatically issues an inspection report



Fan automatic inspection solution

The automatic inspection of drones replaces manual inspections to achieve the purpose of liberating manpower and reducing costs, improving the efficiency and accuracy of inspections, and helping to complete remote, refined, high-frequency, and normal automatic inspections.



Dock network deployment, completed long-distance inspection tasks



Efficient task inspection, high work efficiency, reduce human force investment



Streamlined management, improve pipeline inspection maintenance



Intelligent platform, ensure pipeline safety all, form quantitative data



Surveying and mapping applications

Automated drones replace manpower to complete surveying and mapping, saving surveying and mapping personnel from various disasters and dangers, reducing labor costs and ensuring safety.



All-weather, multi-terrain survey



High-frequency task execution, joint operation



UAV automatic charging, high-intensity, high-efficiency operation



Full life cycle, information support



System standardization & customization



Yangtze River Solutions

Combining air and ground detection, and uses technologies such as target recognition, infrared thermal imaging, UAV automatic flight, and positioning and tracking, it can realize all-weather, full-coverage real-time monitoring of key water areas.



Full monitoring, early detection, early warning, early treatment



Intelligent, networked, IoT command decision



Mobile office, information sharing, fast and efficient








Automated detection, standardized dealing, visualized dispatch





UAV anti-pandemic solutions







The UAV epidemic prevention system has played an important role in non-contact temperature measurement, marketing, eradication, logistics and distribution, traffic control, disaster relief and other aspects.

-  Build an "urban air transport channel" to fight the epidemic through UAV and unmanned docks
-  Aerial message transfer
-  Logistics distribution
-  Escort
-  Duty management and control to achieve on-site evidence collection

Petrochemical patrol solutions

UAV petrochemical automatic patrol system can reduce the labor intensity and labor time and improve the inspection efficiency and quality of UAV by AI automatic flight. The petrochemical pipeline automatic inspection system can realize unattended field, one-click take-off, automatic patrol, greatly improving patrol efficiency.



-  The efficiency of single-day inspection is about 10 times higher than that of traditional inspection
-  It greatly reduces the labor intensity and labor time of patrol operators
-  Long-distance pipeline inspection, automatic charging, stable and continuous operation
-  Omni-directional monitoring, aerial vision, 3D monitoring, timely detection of abnormal conditions
-  Automatic identification of abnormal pipeline, monitoring of oil theft and other illegal acts
-  After the inspection, the inspection result is automatically issued



Water patrol solutions

UAV automatic water conservancy patrol can completely replace traditional manual patrol and provide new ideas for the realization of intelligent water conservancy with its advantages of high efficiency, safety and intelligence. Through UAV automatic airport + full series of loads + AI edge calculation, it realizes unattended, remote routine high-frequency automatic patrol operations.



Compared with traditional manual patrol, the efficiency is increased by more than 10 times



No need for professional pilots to control the UAV, one-button setting, automatic take-off and landing, automatic patrol



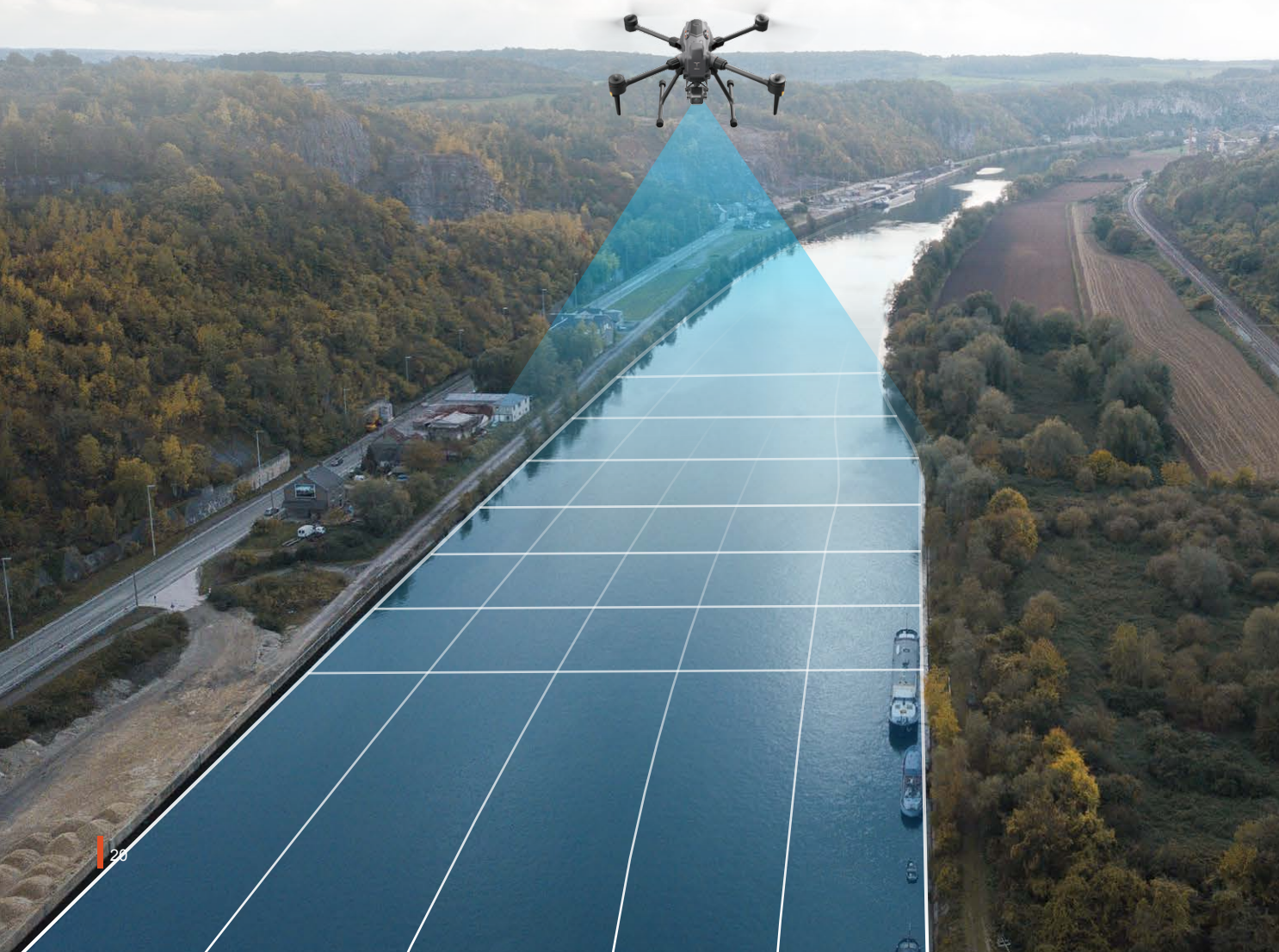
Automatically generate flight routes according to different scenarios



The UAV automatically charge during long endurance missions







Rich AI intelligent identification algorithm, can be connected to a variety of business identification systems



Industrial park automatic inspection solution





Industrial park automatic inspection system reduces the inspection cost of the park, greatly improve the efficiency of UAV inspection, improve the quality of inspection.



-  Formulate flight tasks, command and dispatch UAV, and independently complete inspection tasks.
-  7 / 24 on call, fully covering the inspection area of the park
-  Rich compatible payloads and diversified functions meet diversified inspection requirements
-  It can be used as voice reminder through the UAVs

Smart city solutions

Based on UAV Dock&industrial UAV, through AI auto flight system, it empowers multiple industrial inspection scenerios, and break cross-department information barrier, create a new infrastructure center.

-  **Cost-effective:** Adopting the shared service method can greatly reduce the procurement cost of each department of the smart city
-  **Lost savings:** Reduce the huge comprehensive losses caused by the failure of traditional urban governance methods
-  **Integrated management:** Assist in strengthening the comprehensive administrative law enforcement, traffic law enforcement, environmental law enforcement, etc.
-  **Beneficial to all:** The proceeds from various law enforcement fines can be used to improve the quality of people's livelihood and benefit the general public



Water management

Illegal construction

Accident handling

Municipal greening

Traffic management

Building safety

