





The importance of forest inspection

China has a vast territory and wide distribution, with a forest area of more than 220 million hectares, which is not only a large country of forest resources, but also a country prone to forest fires. There will be 709 forest fires in 2022 and 240 forest fires in the first half of 2023.

Surface-fire

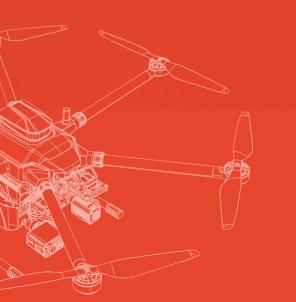
Undeground Fire



Forest Fire Prevention And Inspection

Industrial Solutions





Conquer the Sky for Human's Good

- 🖹 Zhejian Province MMC InnovationTe 🗈 Beijing city MMC Tienmu technology
- **i** Jiang xi province MMC Innovation

- Shanxi province taiyuen city MMC Shandong province zhoucheng city
- MMC Tienmu technology h Xingjiang province MMC innovation





Current Situation

The complex forest envirnoment

Relying on forest rangers to patrol mountains on foot, it is time-consuming and laborious, which may increase the cost of the inpection ,and less quality.

Forest fire occurs in the wild

Multi-rotor UAV is widely used in forest fire in spection, which can detect forest condition in real time and find potential fire hazards, and improve the efficiency and accuracy of inspec-



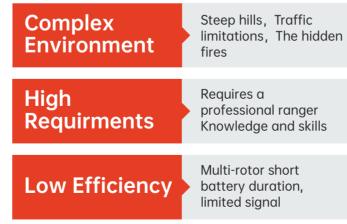
The Issue of Fire Fighting -

Multi departments

coordinating, lack

communication

During the specific seaons or holidays, the fire hazards are more likely to be occured which requires high prevention ability of staff.within the comperhensive perspective monitoring, info sharing, commanding, dispatching and fire extinguishing process. These factors would be potential risks of a high efficiency fire



Difficulty

Coordination



Project Introduction

The MMC smart-fire preventing solutions

Two inspection modes maximize the energy efficiency of large-scale automated inspection, it liberates the pressure of manual patrol, and enhanced the efficiency of UAV inspection.

180mins Mega-endurance 80km Patrol Radius HR and Dual Light Imaging 5km Laser Range Smoke and Flame Recognition Live and Efficient Linkage







The Platform (Command Center)





The Structure -





Program Benefits



High inspection efficiency

- The maximum daily inspection of 2 rangers is about 20 square kilometers, and the daily inspection of 1 hanging fixed wing is not less than 100 square kilometers;
- Effectively break through terrain constraints, greatly reduce labor and time costs, with higher economic benefits.



Highly intelligent

- Dual light imaging, location positioning and intelligent recognition capabilities, comprehensive insight into forest fire hazards;
- No need for professional personnel, greatly optimizing the labor intensity and



Flexible coordination

- · Aerial inspection visualization, accurate data acquisition, cross-unit collaboration and high efficiency;
- · No need for forest rangers to survey on foot, and can quickly locate suspected or dangerous areas through mobile terminals to complete information coordination.

Operation Process -

Ground station inspection scheme

Create a rout



Fire Suppresion



Data Repor

Unattended inspection solution



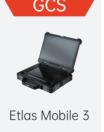




Introduction To Products -

The Relative Ground Station Products

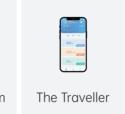










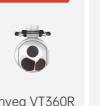


Unattended Inspection Solution

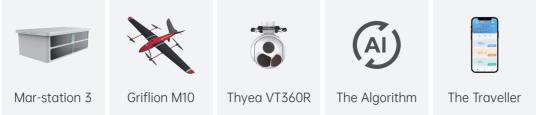




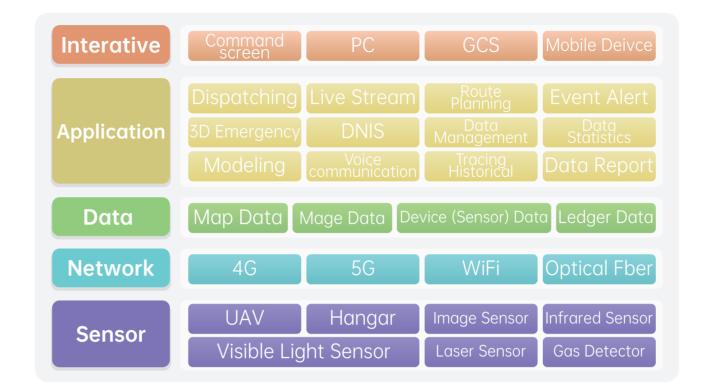








The Stucture Of Mspace





Griflion M10

The flight platform adopts the quick-disassembly design, which can be quickly assembled and deployed, suitable for many mission loads.

180min (6pcs)	Devel
Max. Endurance	Payi







Etlas Neo III

It is suitable for the control of MMC full range of UAV products and all types of mounting equipment equipped with high-definition image return, flight path planning, adjustment of flight mode, acquisition of flight status, control of UAV mounting and other functions.

8.4kg Weight	0











Marstation 3 (Unattended Hangar)

MMC unmanned automatic apron system is a visual operating system integrating UAV automatic flight, cluster scheduling and data processing. It consists of an intelligent scheduling inspection platform composed of UAV automatic airport, external intelligent weather station.

4g/5g	3000w	Autonomous
reles Communication	Peak Power	Charging
160km	Mains or	IP55
Covering Diamete	Solar	Level of Protectio

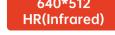


Thvea VT360R

With detection, identification of ground targets, target location, automatic capture, laser ranging, fault diagnosis and other functions.









Data Link (Grid-connected Airborne Terminal) The world's smallest, lightest, and best adaptive 5G network UAV frontmounted.

Support for esim and nanosim/Support for dual SIM













Device

It mainly assists forest rangers in daily patrol, emergency personnel in event viewing, navigation, processing, result reporting and personnel positioning.

Task Processing

Real-time Monitoring

Data Traceability

Data Upload

Successful Case -



Application: Forest Fire Prevention Drone Project

Automatic Inspection, Large-scale Inspection





Real-time monitoring, forecasting and early warning to promote sustainable development of forestry



