

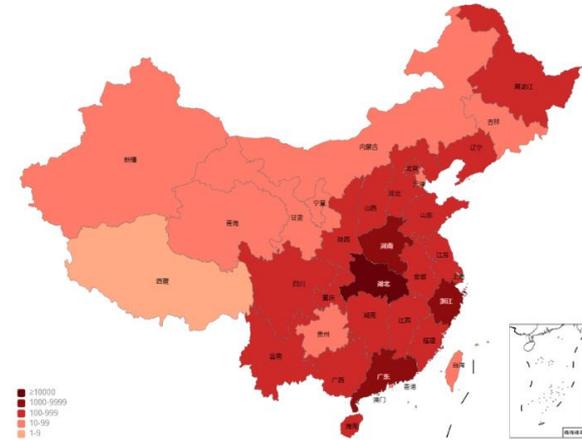


**ENT SOLUTION FOR EPIDEMIC CONTROL**

# UAV SUPPORTING EPIDEMIC CONTROL

## 2019-nCoV outbreak is of great urgency

The 2019-nCoV epidemic control has entered a critical period with total confirmed case of 77059 (as of 23 Feb 2020) in China. The epidemic control is the top priority for China.



## What have DJI been doing?

Various use cases were reported by media that shows:

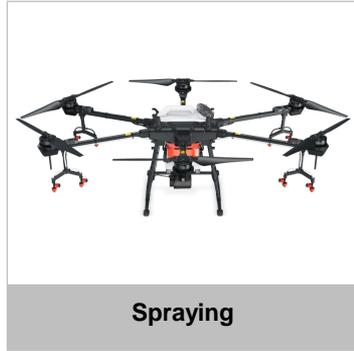
- In more than **50 counties and cities** in more than **18 provinces**, drones are used for addressing safety information to passengers via loudspeaker, as well as to inspect unprotected gathering that could facilitate virus spread.

For disinfection, as of February 3

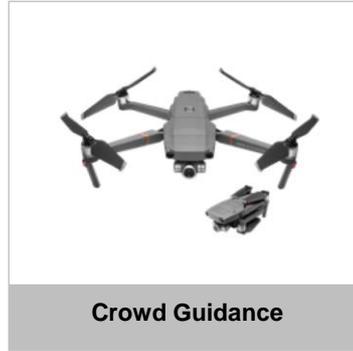
- In more than **3000 villages**, DJI Agras series were used to spray disinfectants that covers total **200 million sqm**. Total flight time exceeds **4000 hours**.



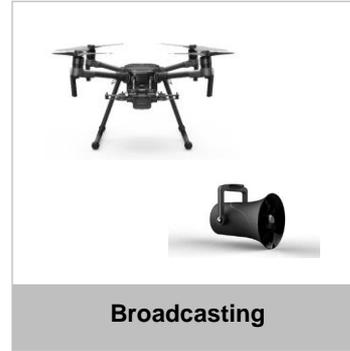
# APPLICATION SCENARIOS



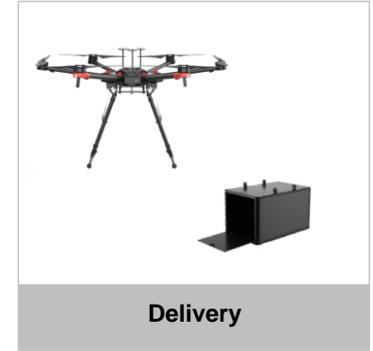
The Agras series sprays disinfectants in streets and villages.



The portable drones are used to guide crowd and vehicles gathered in places prone to infection.



The drones with loudspeakers are used to address safety information to passengers.



Larger drones are used to deliver medicines and groceries without human contact.

# SPRAY DISINFECTANTS

## Lower risk and increase efficiency

The Agras series sprays disinfectant for villages and densely populated areas.

## Advantages

### - Ensure Safety

The spraying tasks can be carried out without sending people into the infected region, which helps avoid cross-infection.

### - Increase Efficiency

Up to 20 Liter per takeoff, the spraying efficiency can reach 180 mu per hour, covering ~120,000 sqm of area.

### - Lower Risk

Obstacle avoidance thanks to omnidirectional radar during automatic missions.



Train stations, bus stations etc.



Hospitals



Workplace



Community

# CROWD GUIDANCE

## Efficient crowd and traffic management

The virus outbreak coincided with Spring Festival travel rush, there additional measures need to be taken to minimize risks while ensure efficiency.

Common issues include: road congestion, crowd gathering. Most of which requires onsite manpower provide guidance, had there been no drones.

## Traffic Control

Carry out patrols in key transport hub areas to minimize congestion.

## Crowd Guidance

Patrol public areas such as streets, communities, villages to locate unprotected crowds, followed by vocal/onsite guidance.



# BROADCASTING

## Address safety information about 2019-nCoV

Via loudspeakers on drones, safety information can be addressed to passengers in a timely manner.

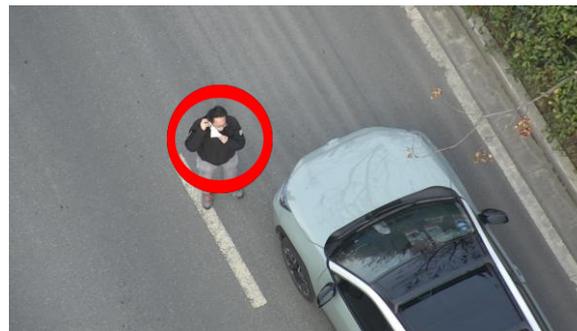
For example, a man was approached and urged to put back on his protective mask.

## Supervise and Broadcast

Supervise and guide the public to take preventive measures and protect themselves.

## Education

Key information on personal sanitation, disinfection, self-protection etc. is shared repeatedly so everyone in the community understands and follows.



# DELIVERY

## Drones delivers packages without human contact

During quarantine, people on duty and residents in isolation get their daily grocery, medicine and emergency supplies via drones.

### Efficient

Fast and efficient delivery in short distance during quarantine.

### No Human Contact

Avoid human contact and reduce the risk of virus transmission.



# SPRAY DISINFECTION | T16, MG-1P

Efficient and autonomous operation



**AGRAS T16**

- 16L capacity
- Fully autonomous and high-precision operation
- The core module has IP67 level protection
- DBF imaging radar
- Wide angle FPV cameras
- AI intelligence



**MG-1P**

- 10L capacity
- Multi-aircraft control mode\*
- Agriculture Solution Package 2.0
- DBF imaging radar
- Wide angle FPV cameras
- Precise positioning with interference resistance

# INSPECTION & BROADCAST | MAVIC 2 ENTERPRISE SERIES

## Portable UAV



Mavic 2 Enterprise Series

### Easy to carry

<1kg, size of a water bottle when folded.

### Quick response

Propellers can be installed in 1 minute.

### Night vision

Equipped with thermal camera that functions at night.

### Speaking and persuasion

Equipped with a loudspeaker that comes in combo package.



Speaker



Spotlight



Beacon



Battery Manager

# INSPECTION & BROADCAST | MATRICE 200 V2 SERIES

## Multi-Payload UAV



**M200 V2 series**

- Compatible with 30x optical zoom camera, 24 million pixel HD camera, thermal camera, etc.
- Support ultra high resolution image transmission with stable connection
- IP43 protection.

### Visual Camera



- Used for inspection of crowd gathering, which can be prone to virus spreading.
- 30x optical zoom camera, which can enlarge the picture and view the details.

### Thermal Camera



- Infrared thermal camera, aerial detection in dark environment.

### Loudspeaker –3rd Party Payload Supported

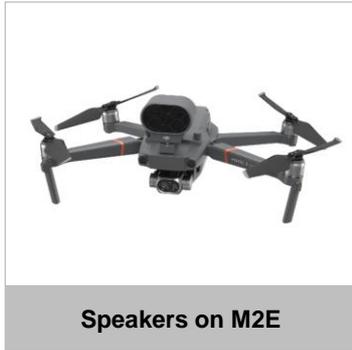


- Real-time voice transmission that allows direct engagement between pilot and passengers

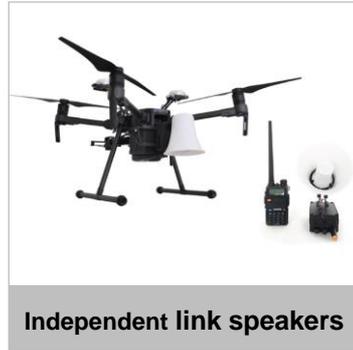
# INSPECTION & BROADCAST | COMPATIBLE WITH VARIOUS SPEAKERS

## Different types of loudspeaker payloads are supported

No matter which drone platform you use, you can find the right loudspeaker that is compatible.



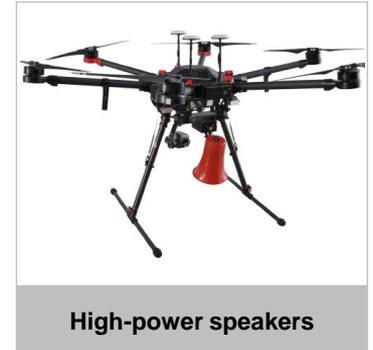
portable, Micro-b interface



Usec with walkie talkie or mobile app



DJI SKYPORT Gimbal



Fixed mounting of mechanical structure

# INSPECTION & BROADCAST | RECOMMENDED BATTERY SETS

To ensure longer operation, extra batteries and chargers are recommended.

## Mavic 2 Enterprise Series - Battery & Charger

Flight time	25 min	6 hours
Drones	1	1
Batteries	1	6
Chargers	1	2



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## Matrice 200 V2 Series – Battery & Charger

Flight time	25 min	6 hours
Drones	1	1
Batteries	2	8
Chargers	1	3



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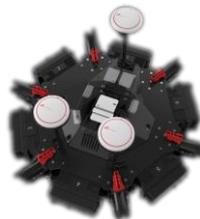
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# DELIVERY | MATRICE 600 PRO



- 6kg takeoff weight
- 6 independent intelligent batteries
- Battery management system
- Three redundant A3 Pro Flight Control
- SDK secondary development free assembly of third-party devices



Three redundant A3 Pro



Battery management system



3rd party payload - drop box

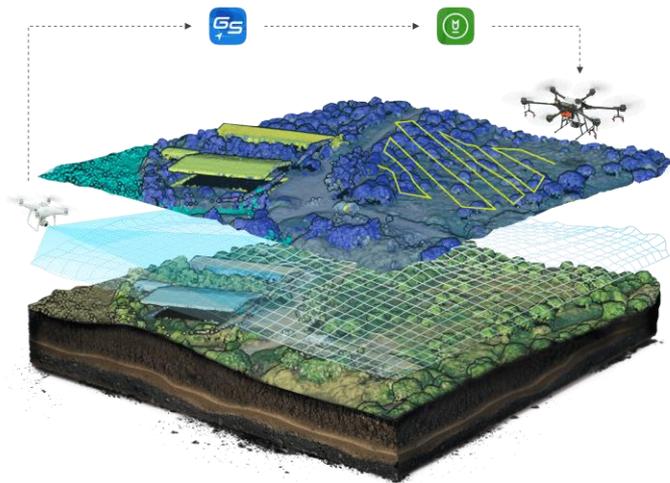


SDK secondary development

# MISSION PLANNING

## Intelligent mission planning and UAV background management

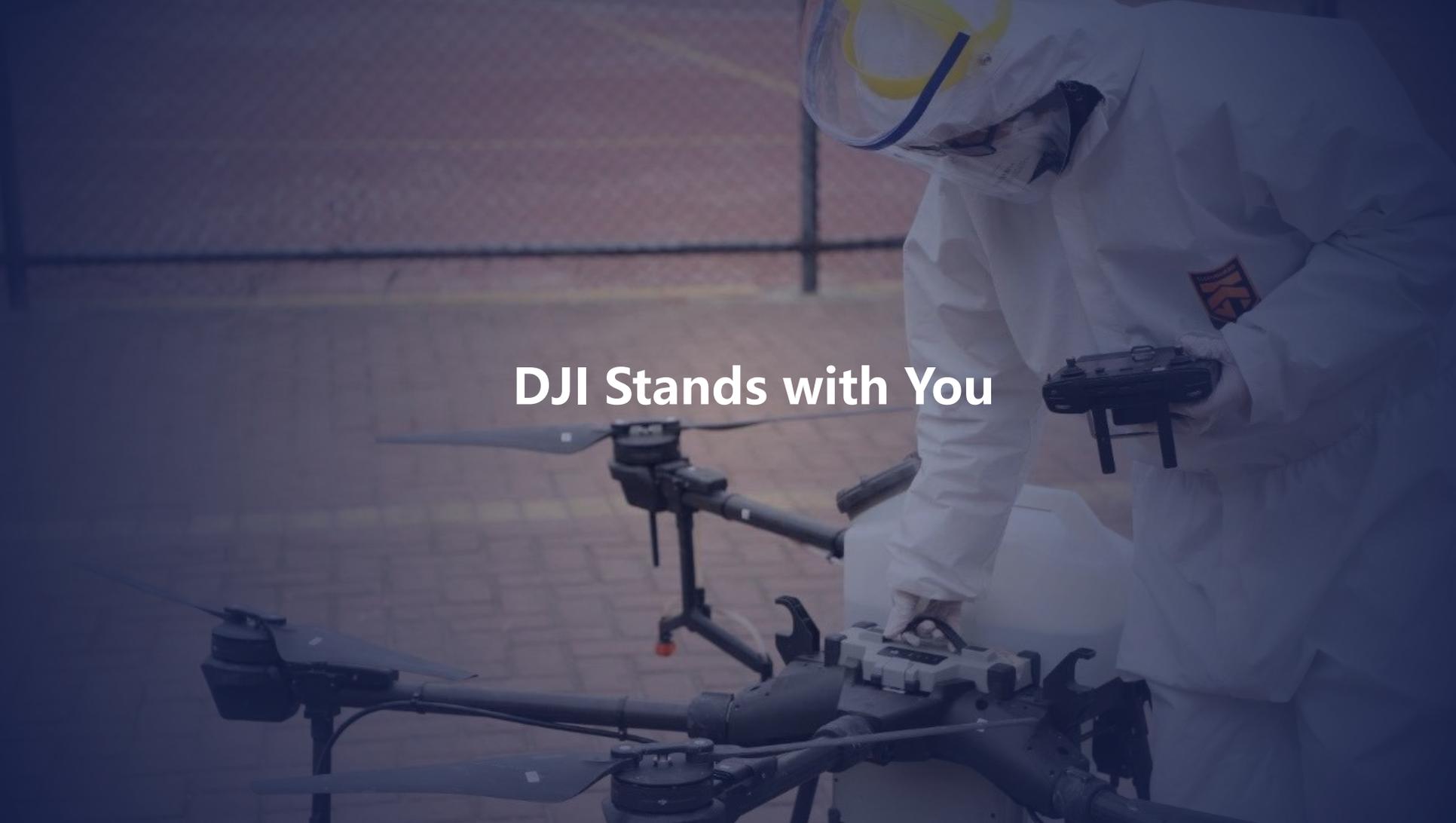
In the target operation area, users can customize flight path, set up cruise altitude that allows 2D and 3D modeling missions.



2D, 3D modeling



Mission Flight

A person wearing a full white protective suit and a clear face shield is operating a DJI drone. The person is holding a remote control in their left hand and adjusting a component on the drone with their right hand. The drone is a quadcopter with four propellers. The background is a brick wall and a paved area. The image has a dark blue overlay.

**DJI Stands with You**