

Aeroscope Management System (AMS)

User Guide v1.0

2019.07



Searching for Keywords

Search for keywords such as “FOV” and “mount” to find a topic. If you are using Adobe Acrobat Reader to read this document, press Ctrl+F on Windows or Command+F on Mac to begin a search.

Navigating to a Topic

View a complete list of topics in the table of contents. Click on a topic to navigate to that section.

Printing this Document


This document supports high resolution printing.

Using this Manual

Legend

 Warning

 Important

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Downloading Documents

Visit the link below to download the latest Aeroscope Management System User Guide and other documents related to Aeroscope Management System (AMS).

<https://www.dji.com/aeroscope>

Contents

Introduction

Aeroscope Management System (AMS) is the core of the entire drone security system. It uses the advanced information management technology to achieve central monitoring, command investigation and statistical historical flight data, providing management with complete drone monitor functions to make public airspace more secure.

Account and Basic Settings

Account

Account and password are required to log in the AMS. Please contact DJI sales or the agent to obtain the account and password.



- The account can only be logged in on one terminal device.
- The system remains in the 24-hour login state after successfully logged in, and will be disconnected automatically within 24 hours. Please log in to the system again.

Login

1. Open the Chrome browser and visit the URL <https://aeroscope.djiservice.org>.
2. Enter the username and password provided by the DJI sales or the agent to complete the login.

Login 中文

Username

Password

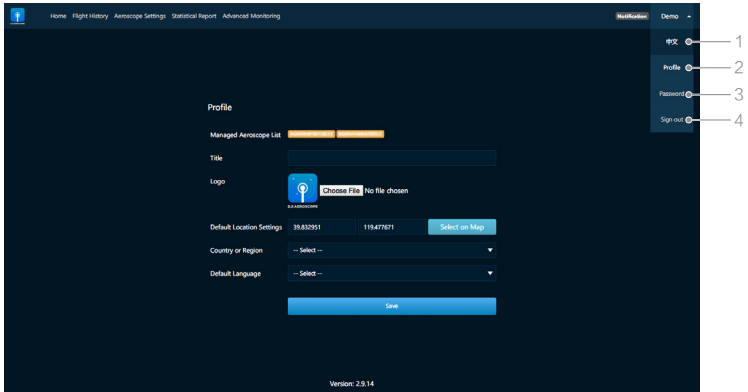
Verification Code **5VGB**

Login

Chrome browser is recommended Version: 2.9.14

Basic Settings

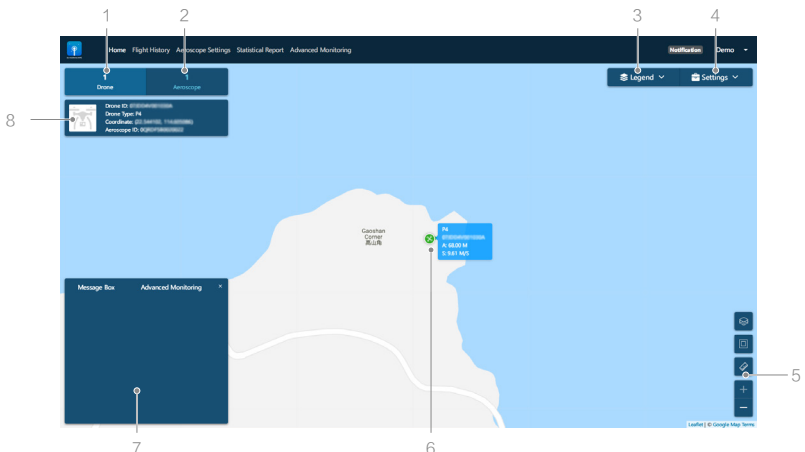
Used to set some basic information of your account.



1. You can switch languages in the drop-down menu, both Chinese and English are supported currently.
2. Profile: The system icon and the system title displayed in the upper left corner of the website can be customized.
3. Set the system login default location and country or region to facilitate the home page to display the map around the default location.
4. Change password: You can modify the password.

Homepage

The homepage is mainly used to display information in real time, including: number of drones, number of working Aerospace units, and the real-time positions of the aircraft, etc.



1. Number of Drones

If an aircraft is detected, click on the aircraft section to view a summary of the aircraft in real time. At the same time, a green aircraft icon will be displayed on the map as the real-time flight position of the aircraft detected.
2. Number of active Aeroscope units

Click to view the information about the Aeroscope unit that is active under the current account. If the number of Aeroscope is not zero, a blue monitor icon will be displayed on the map, which is the actual location of the monitor.
3. Legend

Set the map legend and the layer display mode.
4. Settings
5. Select map source and use distance measurement tool.
6. Detected drones

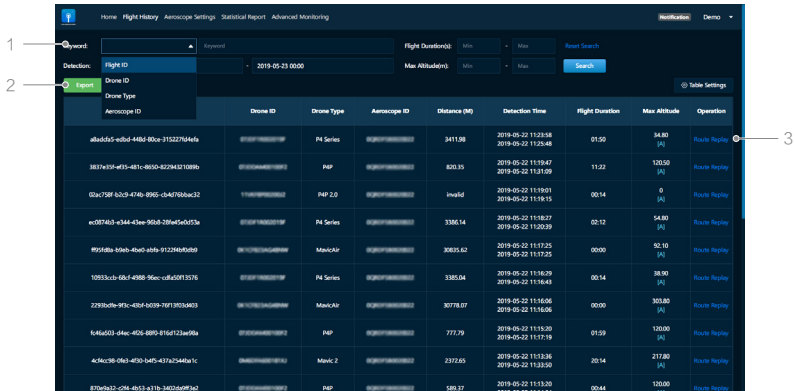
Tap on the aircraft icon to view the details of the aircraft.
7. Message alert box

A text alert will be displayed if Aeroscope detects aircraft activity.
8. Drone information

Detailed aircraft information.

Flight History

Users can query or export historical detection records.



1. Search

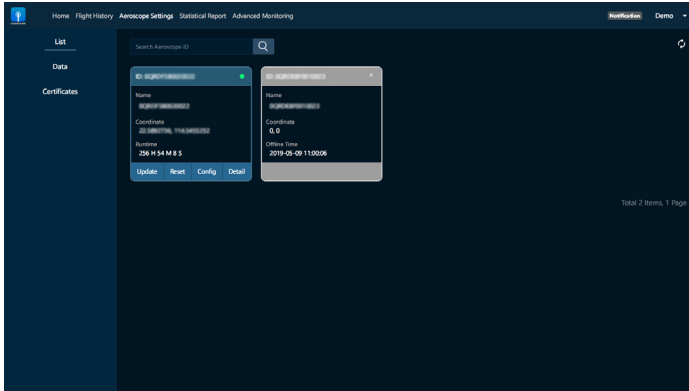
Users can search for the corresponding detection record by keywords such as flight number and device ID.
2. Export

Users can customize the report for selecting and exporting historical monitoring flight records.
3. Track playback

Click the "Track Playback" button to view the corresponding historical flight path record.

Device Settings

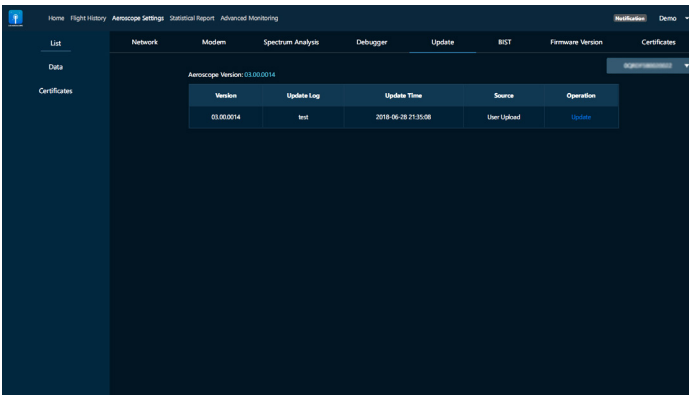
Configure parameters, manage certificate and monitor the status of the Aeroscope unit.



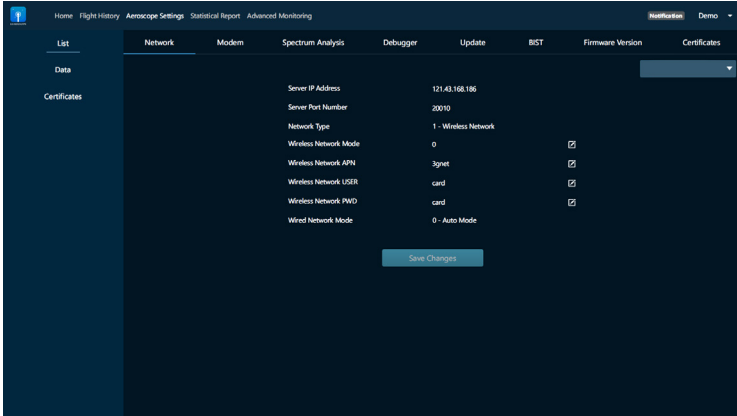
Device List

View a list of all the units bound to the account. The online monitor displays a blue box, while the offline one displays a gray box. You can perform operations such as "Upgrade", "Restart", "Configuration", and "Details" on the unit that is online.

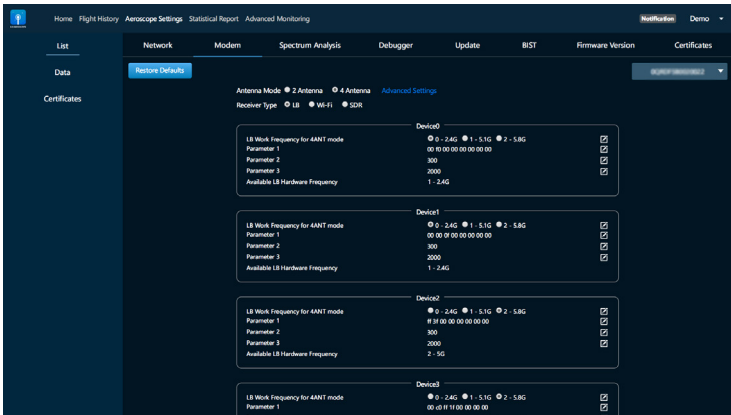
1. Upgrade: Click the "Upgrade" button to enter the upgrade page as below, you can upgrade or downgrade the firmware.



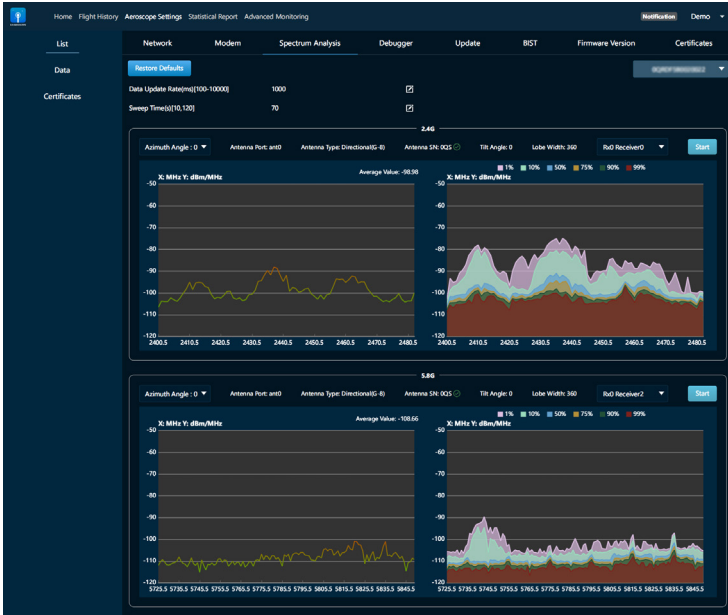
2. Restart: Click the "Restart" button, the Aeroscope unit will restart immediately (restart will take a few minutes).
3. Configuration: Click the "Aeroscope Settings" button to enter the Aeroscope parameter configuration page, including Network, Modem, Spectrum Analysis, Debugger, Upgrade, BIST, Firmware Version, Certificates.
 - (1) Network configuration: You can view or modify the network parameter settings of the Aeroscope unit.



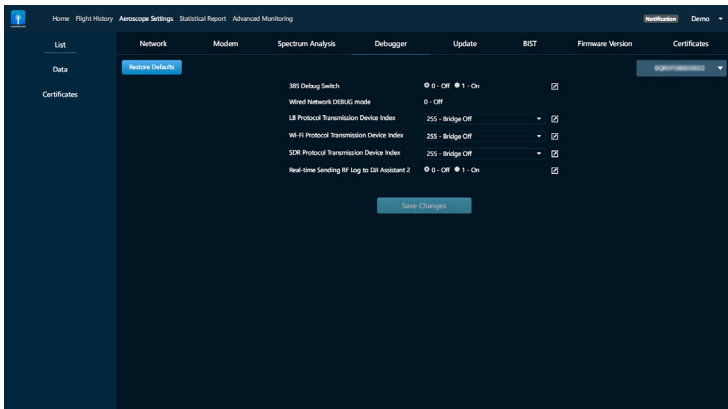
- (2) Modem configuration: set antenna mode and receiver type. Note: it is not recommended to change the device related settings.



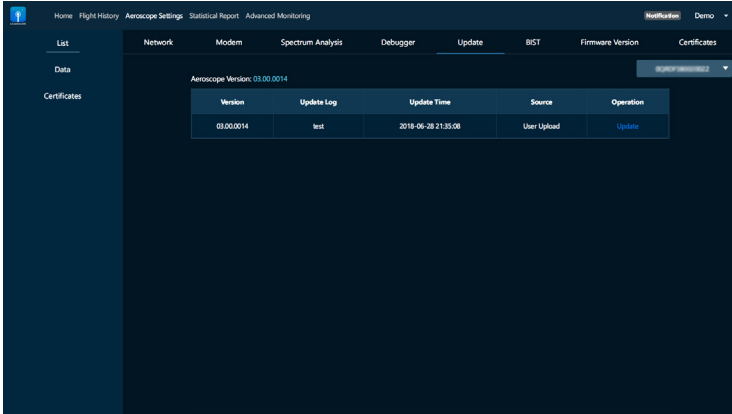
- (3) Spectrum Analysis: You can set the corresponding Data Update Rate and Sweep Time. Click “Start” to view the status of signals at 2.4GHz/5.8GHz.



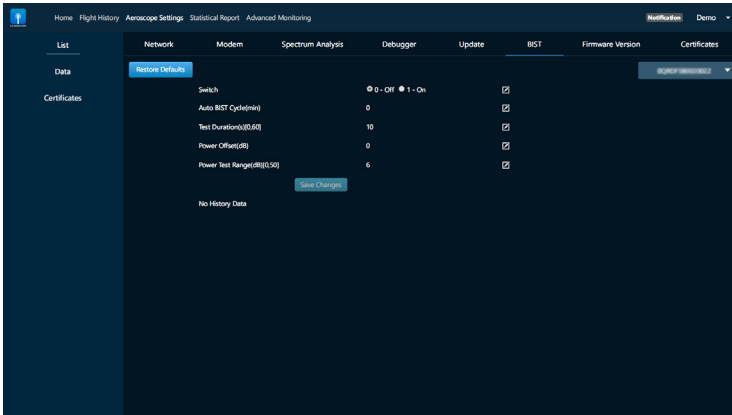
- (4) Debugger: It is recommended that only qualified personnel, such as developers modify the settings here to debug.



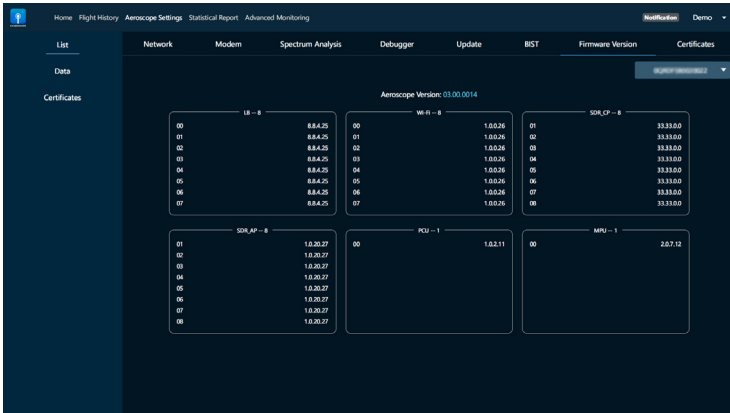
- (5) Upgrade: Select Update or a specific firmware version in the firmware list to update the firmware. Downgrading is also supported.



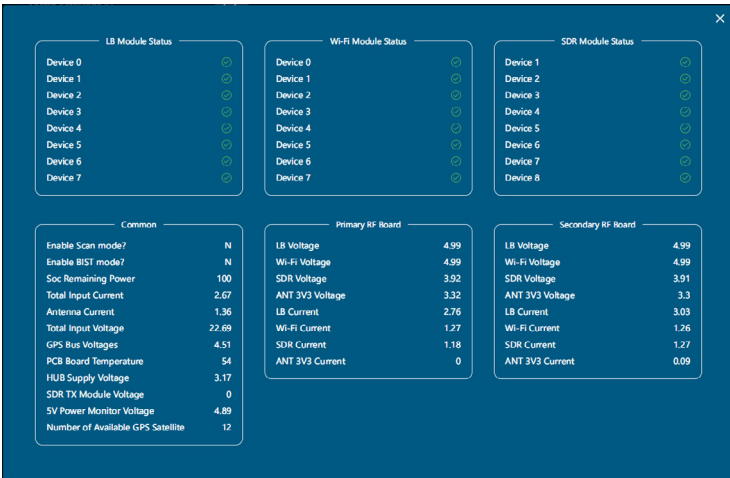
- (6) BIST: Users can set the BIST parameters and perform self-tests for the Aeroscope unit.



- (7) Firmware version: You can view the firmware package version of the Aeroscope unit and the firmware version of each built-in module.

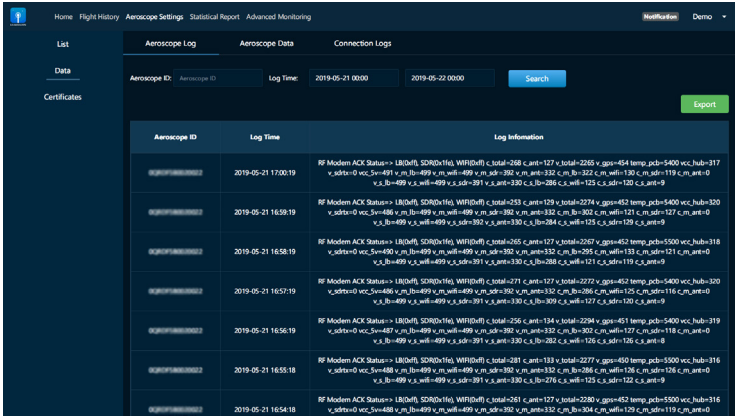


4. Details: Click on the “Details” button to see the detailed operating status of each module within the Aeroscope unit.

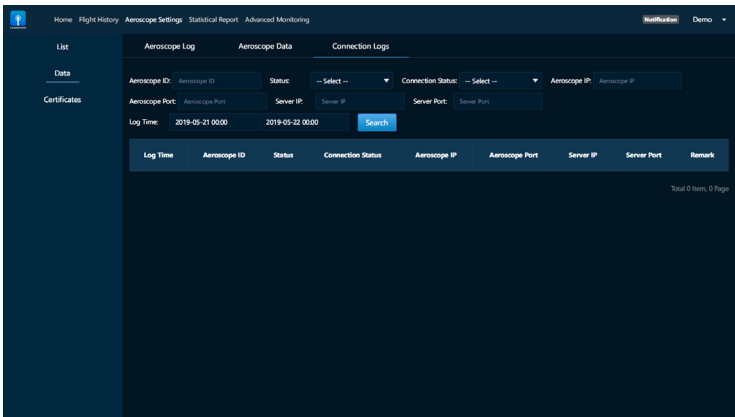


Data Management

In the Data Management section, you can view the Aeroscope log, Aeroscope Data, and Connection Logs.

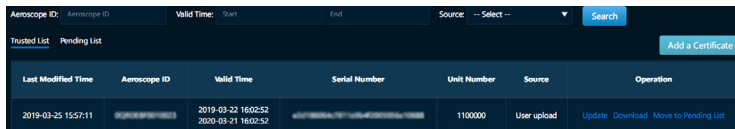


Note that the logs or records can be exported, but the connection logs cannot.



Certificate Management

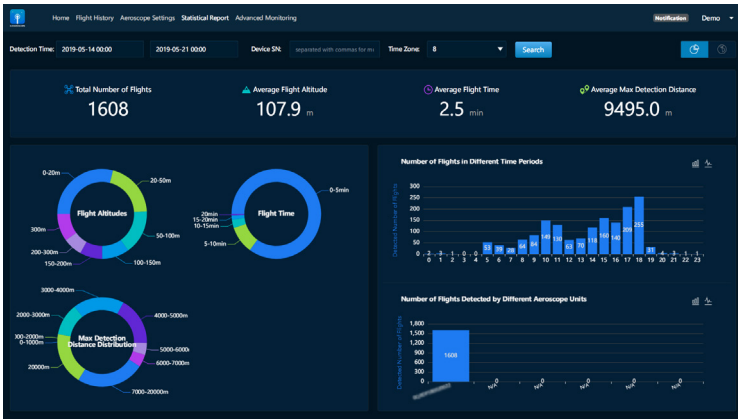
In the "Certificate Management" section, you can manage the device certificate by enrolled in a "trust list" or a "pending list".



Statistical Report

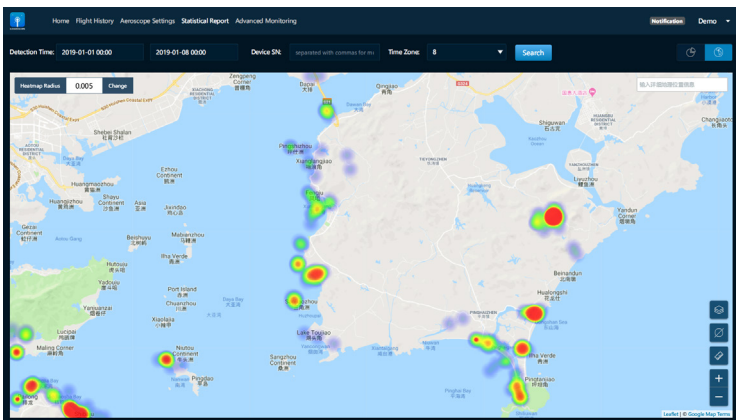
The Statistical Report page shows an overview and an analysis of the detection data, which can be helpful to users.

1. In the Statistical Report page, users can set the time range, and then the system will generate charts based on the selection.



2. Click the button in the upper right corner to switch to the heat map, which displays the detection frequency and location distribution in the surrounding areas.

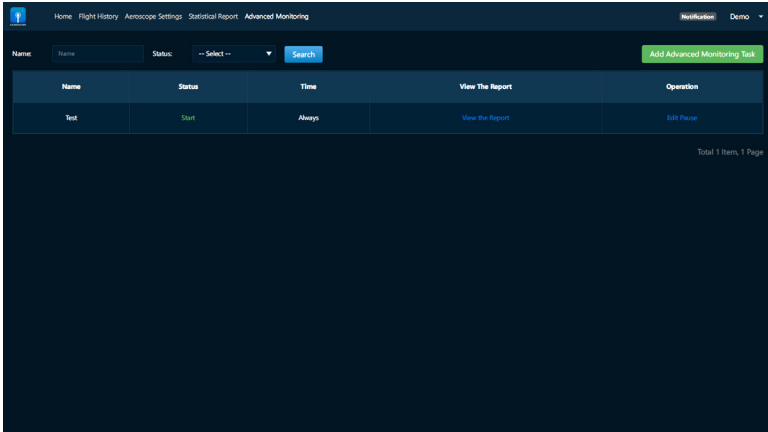
Note that the different color areas indicate the frequency of the aircraft activity. The smaller the radius of the heat map, the more details you can see.



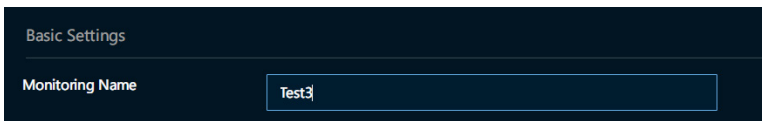
Advanced Monitoring

Advanced Monitoring makes it easy for users to set up specific monitor rules with powerful customization features.

Advanced Monitor displays a list of all created monitoring rules that the user can edit, delete, start, or pause. Click the "Add Advanced Monitoring Task" button in the upper right corner to add a new monitoring rule.



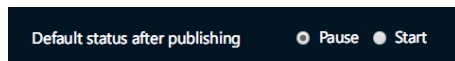
1. Enter the name of the monitoring rule.



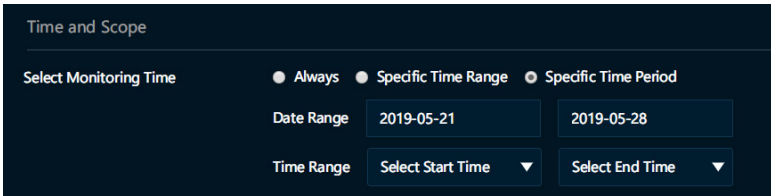
2. Set the "Monitoring Task Priority", with level 9 being the highest level.



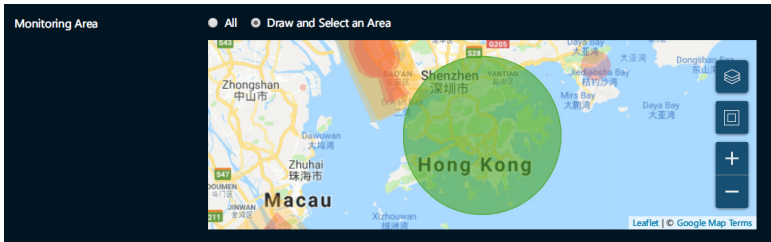
3. Set the "Default Status after Publishing". If "Pause" is selected, manual activation is required after the rule is created. If "Start" is selected, the rule will take effect immediately after it is created.



4. Customize the "Monitoring Time" with a specific time range and date range.

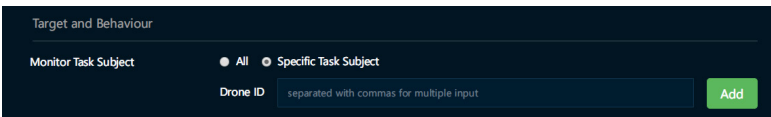


5. Set the "Monitoring Area". If "All" is selected, the system will monitor all areas that it can cover; if "Draw and Select an Area" is selected, the user can set the area to be monitored with a circle or polygon on the map.



6. Set the "Monitor Task Object". If "All" is selected, the system will monitor all aircraft within the scope. If "Specific Task Subject" is selected, one or several aircraft will be monitored specifically.

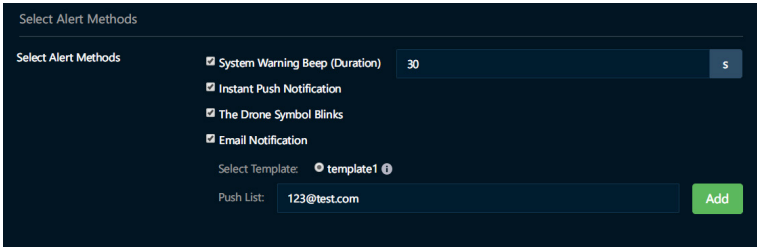
Note: Selecting "Specific Task Subject" requires entering the device ID (i.e., the flight control serial number) of the specified aircraft to be monitored in advance.



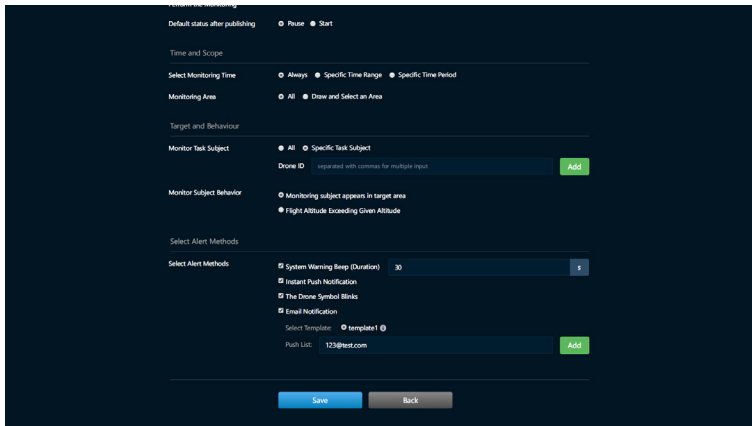
7. Set "Monitor Subject Behavior". If "Monitoring Subject Appears in the Target Range" is selected, a system warning will be triggered as soon as the monitored object appears in the planned monitor range. If "Flight Altitude Exceeding Given Altitude" is selected, then the System warning will be triggered when the monitored object is flying above the specified altitude within the planned monitoring range.



8. Set the "Alert Mode" to select one or more warning alert methods at the same time.



9. Finally, click "Save" to complete the creation of all rules.



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