Drone Platform

Hitachi is a one-stop provider of a wide range of consultation and SI service solutions combining the selection of suitable drones and imaging equipment in accordance with their usage, through to operations and maintenance for supporting safe and reliable autonomous flights, together with the utilization and application of data acquired by the drones.

Drone Solutions

Accelerating innovations for the sky, we offer total solutions to meet your business and operational needs.

Fields of Application

Infrastructure Inspections

Logistics

Disaster/Security/Misc.

Application Solutions

Volume and Area Measurements

Soil/Material Volume Measurements

Other Measurements

Infrastructure Inspections

Power Equipment Inspections

Other Equipment Inspections

Railway Equipment Inspections

Vessel Inspections

Base Station Equipment Inspections

Large Structure Inspections

Home Deliveries

Transportation between Central Sites

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Common Platforms

Consulting

Operation training for business purposes

Operation services

Drone selection

Drone maintenance

Mounted equipment

SI services

Unmanned Aerial System Traffic Management (UTM)

Plan management

Dynamic management

Performance management

Media Viewer

Drone Applications

2D composition

3D composition

Measurement of volume, etc.

Management of aerial imaging data

Safety Precautions

To ensure correct and safe usage, carefully read and follow the instructions provided in the Instruction Manual, Notes on Use, and all other related documents prior to use.

For more information about this service, please see the following:

Service information:

Online inquiries:
https://www8.hitachi.co.jp/inquiry/hitachi-ltd/it/p-channel/global/form.jsp

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From equipment selection through to data management, analysis, and output, Hitachi is able to provide total support. The process starts with PoC without causing any excess involvement by the customer, which also allows anxieties over adoption to be eradicated.

Support ranging from equipment selection through to consultations

Hitachi provides support in selecting the necessary drones and related equipment, providing imaging advice, managing and analyzing data, and offering flight services. With Hitachi’s extensive knowledge and experience in the laws and regulations to govern drones, we support our customers to conduct safer flights and system management. We are also able to suggest methods that match up with customer business affairs to manage, analyze, and process the data obtained by drones.

Centralized management of data

All data is centrally managed in the cloud, which enables it to be shared, even between multiple sites. In the event of several business fields being involved, data sharing allows business collaboration and secondary utilization of the data. Furthermore, use of the cloud service permits flexible responses to data volume modifications and other adjustments that correspond to changes in business situations.

Offering solutions optimized for business

The various functions available allow the data obtained by drones to be analyzed and output to forms and maps, permitting business use without any other processing or preparation of data. A wide range of solutions adapted to different business and industry categories are available to ensure that optimal solutions are provided for each customer’s business needs.

Providing more accurate surveying and measuring in short periods of time

Surveys can be conducted in about 30 minutes with the use of drones, and the data obtained can be immediately analyzed using AI image analysis technology and evaluated for business purposes. Capable of instantaneously responding to situation checks, including matching data with items in stock and inventories, the system reduces costs by allowing appropriate layout planning of human resources and assets. In addition, the data can be confirmed from the office remotely, thereby reducing the risks of work-related accidents.

Safer and quicker inspections

Remote control and the automatic operation of drones allow the customer to safely conduct inspections in short periods of time. Drones are capable of taking shortcut-distance routes to dangerous or difficult-to-enter areas, and the inspection results can be confirmed in the office. The number of personnel required can be minimized, reducing the risks of work-related accidents and allowing efficient examinations and diagnoses.

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Unmanned Aerial System Traffic Management (UTM)

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
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<tbody>
<tr>
<td>Flight Plan Management</td>
<td>Manages flight plans and supports airspace safety and effective navigation</td>
</tr>
<tr>
<td>Dynamic Management</td>
<td>Discerns the risk of accidents and issues risk notifications to ensure safe navigation</td>
</tr>
<tr>
<td>Media Viewer</td>
<td>Video/still images taken by the drone can be linked to flight records and displayed</td>
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</tbody>
</table>

Logistics

It is possible to continue distribution even in situations in which delivering items manually is difficult. The system makes it possible to deliver supplies to areas in which transportation is difficult for ground transportation networks, such as mountainous areas and sparsely populated locations, and areas where human access is difficult due to disasters.

Disasters Response

Discerns the damage of the disaster and support the early start of rescue activities

Generating a composite map and overlaying it on a map makes it easier to discern the damage area. Composite maps can be generated in real time during the flight. Image composition does not take long and can be retaken in flight.