

DRONE FOR INDOOR INSPECTION

POINT 08 DESIGNED WITH UPWARD CAMERA / THERMAL CAMERA

40g payload capacity allow the drone to carry Upward Camera and Thermal Camera to satisfy user demand.

*Payload using attachments are optionable.

POINT 07 ULTRACOMPACT DESIGN ENABLES UP TO 11 MINUTES OF FLIGHT

Despite its smallest-in-class size airframe, IBIS2 can fly for 11 minutes.

POINT 06 IMPROVED SAFE-RETURN RATE WITH TURTLE MODE

Turtle-mode enables quick recovery from turning upside-down for improved safe-return rate.

POINT 05 GOES INTO SPACES WHERE OUT OF RADIO RANGE

Our Antenna-Extender enables wireless communication even where radio waves can't reach.



Liberaware
CO.,LTD.

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THE ULTRA SMALL INSPECTION DRONE

IBIS2



Liberaware
CO.,LTD.

The drone will investigate the unseen risks in Narrow, dark, dangerous places :

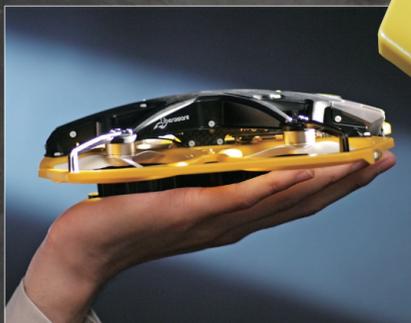
THE ULTRA SMALL INSPECTION DRONE **IBIS2**

POINT 01 CLEAR FOOTAGE EVEN IN DARK/DUSTY ENVIRONMENT

Equipped with our original dust-proof motor and built to IP51 standard, the drone can fly even in dusty and wet environment. Designed with a super high sensitivity imaging sensor and a light with a close to natural light coloration.

POINT 02 SAFELY ENTER THE DEEPEST AREAS

The originally developed flight control system and rounded form enable stable flight even in intricate areas where collisions with walls are expected.



POINT 03 INDUSTRY'S SMALLEST CLASS 20cm AIRFRAME ENABLES ENTRY INTO NARROW SPACES

Our 20cm airframe is one of the smallest in the industry for an industrial drone, allowing it to enter 30cm inspection slot and fly inside pipes 50cm in diameter.

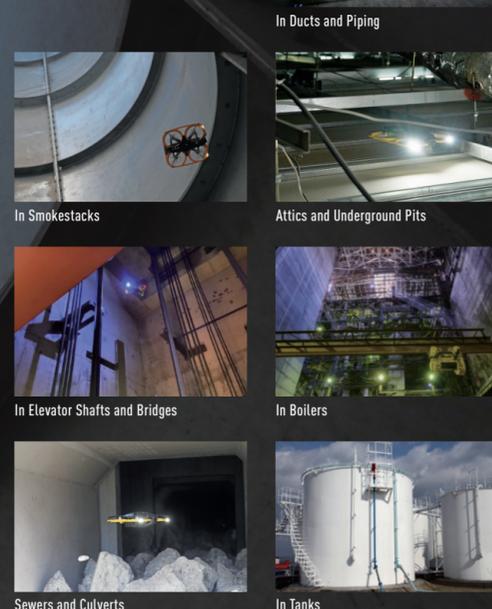
POINT 04 AVOID THE RISK OF ACCIDENTAL DAMAGE WITH THE WORLD'S LIGHTEST AIRFRAME AT 243g

The 243g airframe is one of the lightest in the industry for an industrial drone. Lightweight body made of flexible polycarbonate material, which reduces the risk of damage to the aircraft as well as preventing damage to facilities in the event of an accident.

Through the inventiveness in creating the world's smallest drone for industrial use and imaging technology, we've also made improvements in the inspection work for facilities that are cramped, dark, and dirty, which have been considered difficult to inspect. By visualizing the invisible risks that were difficult to detect with conventional inspection methods, we will fundamentally change the way indoor facility inspections are conducted.

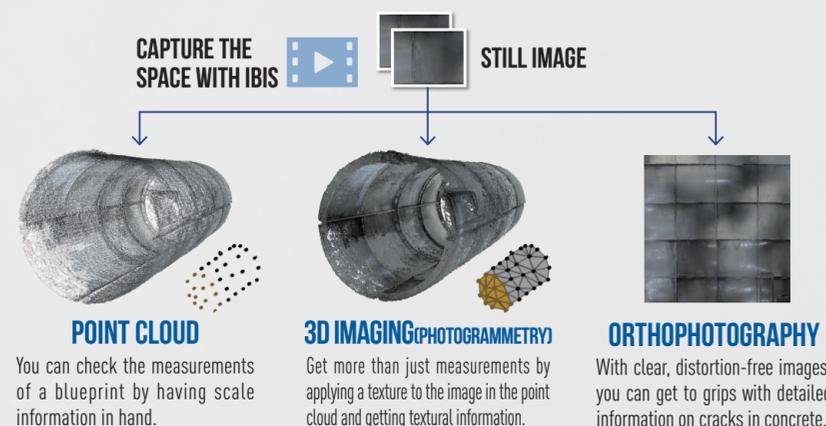
INSPECTION

INSPECTION LOCATIONS



GENERATING 3D DATA FROM IMAGING PROCESSES

Point clouds, 3D images and orthophotography is generated by processing image data captured by the drone with Structure from Motion (SfM). This supports the further advancement of the DX of facility management operations.



2 SERVICE PLANS

Our Inspection Service plan is for one-off uses, such as performing an inspection in the case of suddenly occurring troubles, or for Proof of Concept demonstrations. We also have our Introduction Plan for long-term regular inspections (rental & purchase).

1 INSPECTION SERVICE PLAN

Our certified drone pilot will be dispatched to the site and performs the inspection by flying IBIS and capturing images. While the video imagery is the standard deliverable, 3D model and formal inspection report can be also provided upon request.



2 INTRODUCTION PLAN

RENTAL PLAN

Annual rental plan for 2 "IBIS" inspection drones and a complete set of necessary equipment. In addition to the "IBIS" rental, the plan also includes three additional services to help resolve issues related to the use of our drone.

PURCHASE PLAN

This plan includes the sale of 2 "IBIS" inspection drones and a set of necessary equipment. As with the Rental Plan, we will support you in resolving issues related to the use of our drone, including additional three services. Please contact us for more information about the price, including the use of subsidies.

REPAIR SERVICE
Free, rapid repair and exchange of IBIS drones no matter how many times they break. Use your drone freely without worrying about damaging the drone or airframe.
*Conditions apply.

TRAINING SERVICE
Anyone can attend any of our training courses held 1 or more times a month for free.
*This course is listed on the Japan Civil Aviation Bureau's home page.
*Fixed number of attendees for each course.
*Depending on your plan, the number of people you can send may be limited.

IMAGING SERVICE
Orthophotography, 3D generation, point cloud mapping and other imaging services are available as options.

IBIS2 SPECIFICATIONS

Airframe Name	IBIS2
External Dimensions	194×198.5×58mm
Weight	243g (Airframe: 150g, Battery: 93g)
Max Flying Time	11 min (without payload) 9 min (40g payload)
Wind Endurance	3m/s
Flight Controller	Liberaware
Dust and Water Proofing	IP51 Standard
Payload	Max. 40g

Operational Temperature Range	In Flight: -5~60°C
Lighting	2 Lamps: Combined Total 380lm/ 5 variable levels
Angle of View	Vertical: 80.1° Horizontal: 131.0° Diagonal: 143.9°
Resolution	1920×1080
Image Sensor	STARVIS, 1/2.8
Accessories	Flight Control Unit, including Antenna Extender
Made In	Japan