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To the Press

Press Release

July 24, 2026

Liberaware Inc.

Advancing "No Entry Inspection" in Sewer Pipelines Launch of the New "IBIS2 Chainage" Drone Equipped with Distance and Crack Measurement Functions - The Latest Model in the IBIS2 Series -

Liberaware Co., Ltd. (Headquarters: Chiba City, Chiba Prefecture; Representative Director: Hongkyu Min; hereinafter "the Company") is launching the "IBIS2 Chainage*1" (hereinafter "IBIS2 C") today, July 24, 2026. This latest model, which adds distance measurement, crack measurement, and report generation functions to the existing IBIS2 series, aims to ensure both worker safety and improved survey efficiency in the inspection of aging indoor infrastructure such as sewers.

*1: "Chainage" is a term primarily used in civil engineering and surveying, referring to the "distance (point) measured and recorded along the centerline" at sites of linear infrastructure such as railways, roads, tunnels, and pipelines.



■ Development Background

In recent years, the risk of accidents such as road cave-ins caused by the aging of infrastructure, including sewer systems, has been increasing. On July 15, 2026, the "Amended Sewerage Act" was passed and enacted at the plenary session of the House of Councillors*2. This amended law clarifies diagnostic standards for inspecting sewer pipes to accurately grasp the status of aging, and mandates that local governments publish inspection results and the status of countermeasures.

Consequently, the accumulation of highly transparent and accurate inspection data will become indispensable for maintenance and management.
The Company has previously provided the "IBIS2 Assist," a confined space inspection drone that enables stable flight through a hovering assist function. However, in pipeline inspections involving beyond-visual-line-of-sight (BVLOS) flight, it has been difficult for pilots and on-site personnel monitoring the ground display to objectively grasp the current position of the drone. Additionally, since distance information was not recorded in the video data after filming, identifying the location of anomalies was a challenge.
The "IBIS2 C" launched today was developed to resolve these issues and advance the "No Entry" inspection and survey method, where workers do not need to enter sewer pipelines. While maintaining the size, weight, and control technology of the conventional model, the new "distance measurement function" and "crack measurement function" allow for the recording of anomaly locations and crack sizes as digital data, even in underground spaces where GPS signals do not reach. This supports the formulation of more accurate repair plans without workers having to enter the pipelines, contributing to improved safety and efficiency in infrastructure maintenance and management.
*2: (Reference) House of Councillors Official Website: https://www.sangiin.go.jp/japanese/joho1/kousei/gian/221/meisai/m221080221038.htm

■ Features

1. Distance Measurement Function*3

The pilot's monitor displays the distance from the antenna unit to the drone in flight in real-time. Furthermore, by adding distance information to the saved data extracted from the drone after the flight, the captured video can be reviewed in conjunction with the distance information.
(Note 3) This is optimized for sewer environments and is primarily intended for use within sewers.

2. Damage Measurement Function

On the "IBIS Plus" shooting data management application provided by the Company, it is possible to measure the dimensions of the captured object. For example, if you specify a scratch shown on the screen, it displays the length estimated based on the distance sensor.
Since the position information of the aircraft displayed by the distance measurement function can also be confirmed on the same screen, the position and size of the scratch can be grasped integrally. It is possible to measure a minimum width of 1mm at a shooting distance of 500mm (50cm) (Note 4).
(Note 4) Effectiveness and accuracy vary depending on the usage environment. The figures are actual measured values in the Company's experimental environment.

3. Report Creation Function (Note 5)

The acquired distance data, scratch images, etc., can be immediately output as a report from "IBIS Plus". Since images can be arranged in any order, it streamlines conventional report creation work and contributes to shortening creation time.
(Note 5) This function can also be used by existing IBIS users through a software update. However, the functions in (1) and (2) above are only compatible with video data captured by "IBIS2 C".

It is equipped with the basic performance of "IBIS2 Assist" as standard. For details, please see the product site below.

■ Product Site and Promotional Movie

- Product Page: https://liberaware.co.jp/lp/ibis2-c/

- Promotional Movie: https://youtu.be/u1_kb1fGICo

■ "Sewerage Exhibition '26 Tokyo" Exhibition Information

We will exhibit at "Sewerage Exhibition '26 Tokyo," the largest exhibition in Japan in the sewerage field, which displays and introduces the latest technologies, equipment, services, etc., in a wide range of fields related to sewerage. We will be introducing the "IBIS2 C" at the venue. Please feel free to stop by our booth.

[Overview]

・Date and Time: August 4 (Tue) – August 7 (Fri), 2026

・Venue: Tokyo Big Sight (Approx. 7-minute walk from Kokusai-tenjijo Station on the Rinkai Line; approx. 3-minute walk from Tokyo Big Sight Station on the Yurikamome Line)

・Address: 3-11-1 Ariake, Koto-ku, Tokyo 135-0063

*The Liberaware Inc. booth is located in the No Entry Pipeline Inspection Zone, "AT-601," on the 1st floor of the West Exhibition Hall at Tokyo Big Sight.

■ Webinar Information

We will be hosting a webinar to introduce the features and applications of the "IBIS2 C." Please register using the form below.

[Overview]

・Title: "Measuring with No Entry": Sewer Inspection DX Enabled by the New IBIS2 Chainage

・Date and Time: July 31, 2026, from 15:00

・Format: Online (Zoom)

・Registration Form:

https://liberaware.zoom.us/webinar/register/1017847804247/WN_yT7SIYpRTG6X3i3M4GcPvA#/registration

■ "IBIS2 Chainage" Product Specifications

<Aircraft Performance>

Model Name	IBIS2 Chainage
External Dimensions	194mm x 198.5mm x 58mm
Weight	246g (Aircraft: 153g, Battery: 93g)
Maximum Flight Time	12 minutes (without payload) 10 minutes (with 40g payload)
Payload	Maximum 40g
Water and Dust Resistance	IP51 standard
Maximum Flight Wind Speed	3m/s
Headlight	2 units: 380lm total / 5-level dimming
Assist Mode Sensor	IMU, Barometer, Vertical ToF
Distance Sensor	ToF method, 4 units (front, rear, top, bottom)
Operating Ambient Temperature	-5 to 60°C
Flight Controller	Liberaware proprietary
Aircraft Distance Measurement Accuracy	±3.2m (1σ) *Only in environments where multipath does not occur. *This is a measurement result in our test environment and does not guarantee the values.

<Intelligent Battery Performance>

Type	Lithium polymer battery
Rated Voltage	11.1V
Number of Cells	3
Rated Capacity	1200mAh

<Camera Performance>

Field of View	Vertical: 80.1°, Horizontal: 131.0°, Diagonal: 143.9°
Resolution	1920x1080
Frame Rate	60FPS
Image Sensor	STARVIS, 1/2.8-inch
F-number	2.0
Recording Time	90 minutes
Video Compression Format	MP4 (H.264)

<Radio Specifications>

Frequency (Control)	2.4GHz (2404MHz-2479MHz)
Frequency (Video)	1ch: 5665MHz 2ch: 5685MHz 3ch: 5705MHz 4ch: 5725MHz 5ch: 5750MHz

<Other>

Accessories	Set of control equipment including extension antenna
Country of manufacture	Japan

▼ About Liberaware Inc.

Liberaware Inc. is a company with the mission of "Creating a society where safety is accessible to all." We specialize in the development of world-class, ultra-compact drones designed for inspection and measurement in "narrow, dark, and dangerous" indoor spaces, which are rare globally. We also provide infrastructure inspection and maintenance solutions by analyzing the image data collected by these drones and delivering it to our customers. We continue to strive toward our vision of "Making invisible risks visible," delivering a safe and peaceful society to everyone.

Business Description:

・Drone business: Survey, inspection, and measurement services using drones, etc., and sales and rental services for our proprietary drones, etc.
・Digital twin business: Image processing and data analysis services for data acquired by drones, etc., and licensing of our image processing technology
・Solution development business: Contract development business providing a wide range of solutions from hardware to software

U　R　L：https://liberaware.co.jp/
Xアカウント：https://x.com/liberaware/

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