



December 3, 2025

To All Concerned

Company	Liberaware Co., Ltd.	
Name		
Representative	President and Representative Director	Hongkyu Min
(Securities Code: 218A, TSE Growth Market)		
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### Notice Regarding Launch of New Product Automatic Patrol Camera "TORINOS"

Liberaware Co., Ltd. announces that it will commence sales of the automatic patrol camera "TORINOS" (hereinafter referred to as "the Product"), which provides equipment maintenance DX, starting today, Wednesday, December 3, 2025, as follows.

#### Details

##### 1 . Overview of "TORINOS"

The Product has been developed with the purpose of transforming patrol inspection operations in vast facilities. A camera unit that travels on rails remotely operates and automatically patrols facilities, capturing and recording images, thereby significantly improving the efficiency of conventional manual inspections. As a result, Liberaware Co., Ltd. will provide equipment maintenance DX starting with patrol inspections for facilities such as large data centers, plants, utility tunnels, dam inspection galleries, and tunnels.

Liberaware Co., Ltd. will continue to create solutions from both hardware and software perspectives, contributing to improved safety and productivity innovation at industrial sites, and will strive to realize its mission to "Create a society where safety is accessible to all."

##### 2 . Impact on Business Performance

The impact on business performance from the launch of the Product described above has been incorporated into the consolidated full-year earnings forecast for the fiscal year ending July 2026, announced on September 12, 2025.

For more detailed information, please refer to the attached press release.

End

Note: This document has been translated from the Japanese original for reference purposes only. In the event of any discrepancy between this translated document and the Japanese original, the original shall prevail.

**Press Release**

December 3, 2025  
Liberaware Co., Ltd.

**~An Innovative Solution for Patrol Inspection Operations in Expansive Facilities~  
Automatic Patrol Camera "TORINOS" Launches Today, December 3**

Liberaware Co., Ltd. (Headquarters: Chiba City, Chiba Prefecture; Representative Director: Hongkyu Min; hereinafter "Liberaware Co., Ltd.") will launch the automatic patrol camera "TORINOS" today, Wednesday, December 3, 2025, which reduces labor requirements for patrol inspection operations in expansive facilities and provides equipment maintenance DX.



"TORINOS" is a product developed with the purpose of transforming patrol inspection operations in expansive facilities, and will accelerate equipment maintenance DX starting with the automation of patrol inspections for facilities such as large-scale data centers, plants, utility tunnels, dam inspection galleries, and tunnels.

As the decline in the working population accelerates, "responding to labor shortages" has become an urgent management issue across many industries. In particular, patrol inspection and security operations within facilities are areas that require significant manpower, and there is a strong demand for achieving both efficiency and safety. In response to these challenges, Liberaware Co., Ltd. has developed a new product that serves as one solution.

This product was jointly developed with Marunouchi Heat Supply Co., Ltd., achieving high functionality that meets on-site needs. A camera unit that travels on rails remotely and automatically patrols facilities, capturing and recording images, thereby significantly improving the efficiency of conventional manual inspections.

Through the development and manufacturing of drones specialized for confined spaces, Liberaware Co., Ltd. has provided new value to inspection operations in facilities that are difficult or dangerous for people to enter. The newly announced product "TORINOS" is the second robot that advances that technology.

Moving forward, Liberaware Co., Ltd. will continue to create solutions from both hardware and software perspectives, contributing to improved safety and productivity innovation at industrial sites, and striving to realize the company's mission to "Create a society where safety is accessible to all."

### ■Joint Development with Marunouchi Heat Supply Co., Ltd. (Website: <https://www.marunetu.co.jp>)

In developing this product, Liberaware Co., Ltd. received development cooperation from Marunouchi Heat Supply Co., Ltd.

Established in 1973, the company is a district heating and cooling provider that supplies heat for air conditioning and hot water to the Otemachi, Marunouchi 1-chome, Marunouchi 2-chome, Yurakucho, Uchisaiwaicho, and Aoyama areas of Tokyo. The company owns and manages heat supply conduits with a total length of approximately 30 km in these areas, and most of these conduits are installed in utility tunnels with a total length of approximately 5 km. The company focused on "TORINOS" to reduce labor requirements for management operations in areas with severe conditions such as narrow spaces and to enable rapid on-site inspections during BCP situations.

Liberaware Co., Ltd. has been jointly developing the system with supervision including the design of functions to realize mechanization without compromising the quality of inspection work and operational aspects.

### ■Five Features of TORINOS

#### Feature (1) "Remote Control" Function

This is a mode that allows operators to control TORINOS from a remote location such as a central monitoring room to conduct on-site patrol inspections.

While moving TORINOS forward or backward, operators can utilize the camera's pan (horizontal rotation), tilt (vertical rotation), and zoom functions to conduct patrol inspections as if they were walking through the site themselves. An intuitive control application is provided, requiring no time to master the operating skills. It can also be utilized for emergency confirmation of on-site conditions during emergencies.

#### Feature (2) "Automatic Periodic Patrol" Function

This is a mode in which TORINOS automatically patrols according to pre-set times, routes, and camera work. After completing the patrol, the captured video data is automatically transferred to the control PC.

#### Feature (3) Automatic Charging Port and Battery Management

To achieve unmanned patrol inspections, an automatic charging port is installed at the terminal point of TORINOS. This is a mechanism where charging automatically begins when TORINOS returns after completing its patrol inspection. In addition, the battery management system monitors the battery status in real time, enabling safe operation.

#### Feature (4) Long-Distance Travel and Traveling Capability (Handling Sharp Curves and Slopes)

TORINOS can travel up to 3 km (in high-speed mode) on a single charge.

Therefore, it can be utilized for patrol inspections of dam inspection galleries and large-scale data centers that require long-distance travel. Its traveling capability to handle sharp curves (R400) and slopes (35-degree incline) is also a distinctive feature.

#### Feature (5) Simple Rail Installation Work

Since TORINOS operates using battery and wireless (Wi-Fi), the rail itself does not require any electrical or mechanical mechanisms. Therefore, it is possible to install rails relatively easily.

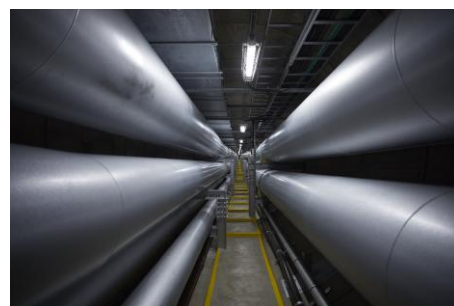
#### ■ Scenes Where "TORINOS" is Active



〈Warehouse〉



〈Plant〉



〈Tunnel〉

#### ■ "TORINOS" Specifications (Overview)

Size	W245mm×D400mm×H315mm (500mm including camera unit)
Weight	Approx. 6kg
Battery	4769mAh/7.38V (35.2Wh)×2 units *Ternary lithium-ion battery
Charging Time	Approx. 1 hour
Operating Temperature Range	0°C~50°C
Climbing Performance	Maximum 35 degrees
Minimum Turning Radius	Rail inside: R400 / Rail outside: R525
Maximum Speed	3km/h *3-level speed selection available: High-speed mode (3km/h), Medium-speed mode (2km/h), Low-speed mode (1km/h)
Travelable Distance	Maximum approx. 3km (in high-speed mode)
Operating Time	Maximum approx. 75 minutes
Wireless Format	Wi-Fi

Mounted Camera	<ul style="list-style-type: none"> <li>● Pixels: Approx. 2.1 megapixels (video (mp4) recording available)</li> <li>● Zoom: 10x optical zoom</li> <li>● Pan/Tilt: Horizontal (PAN) angle 360° rotation, Vertical (TILT) angle -15°~+195°</li> <li>● Minimum illumination (color): 0.015lx</li> </ul>
Rail	<ul style="list-style-type: none"> <li>● Width: 125mm</li> <li>● Material: [Rail section] SS400 baked coating [Base section] A6005 (anodized)</li> </ul>

\*Product specifications and appearance are subject to change without notice for improvement purposes.

## ■ "TORINOS" Exhibition Information

TORINOS will be exhibited with live demonstrations at the "10th JAPAN BUILD TOKYO - Advanced Construction Technology Exhibition -" to be held for three days starting Wednesday, December 10. We are prepared to offer a simple hands-on experience using the control application. We look forward to welcoming many visitors.

### <Exhibition Information>

- Event Name: 10th JAPAN BUILD TOKYO - Advanced Construction Technology Exhibition -
- Date: Wednesday, December 10, 2025 - Friday, December 12, 2025
- Location: Tokyo Big Sight South Exhibition Hall 1F
- Booth Number: 44-14

## ■ Product Website

<https://liberaware.co.jp/torinos/>

## ■ Promotional Video

<https://youtu.be/TWtdWCIMTPo>

## ▼ About Liberaware Co., Ltd.

Liberaware Co., Ltd. operates under the mission to "Create a society where safety is accessible to all," developing world-class smallest drones specialized in inspecting and measuring "narrow, dark, and dangerous" as well as "indoor spaces," which is rare globally, and providing infrastructure inspection and maintenance management solutions by analyzing image data collected by these drones and delivering it to customers. Liberaware Co., Ltd. continues to strive toward its vision of "Making invisible risks visible," delivering a safe and peaceful society to people.

Company Name: Liberaware Co., Ltd.

Representative: Hongkyu Min

Location: 3-3-1 Chuo, Chuo-ku, Chiba City, Chiba Prefecture

Established: August 22, 2016

Business Activities:

- Drone Business: Survey, inspection, and surveying services using drones, sales and rental services of in-house developed drones

- Digital twin business: Image processing and data analysis services of data acquired by drones, and licensing of Liberaware Co., Ltd.'s image processing technology
- Solution development business: Contract development business providing a wide range of solutions from hardware to software

URL: <https://liberaware.co.jp/>

X Account: <https://x.com/liberaware>

〈Contact for Inquiries Regarding This Matter〉

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