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MITSUI E&S Co., Ltd.
ZENRIN DataCom Co., Ltd.

**Sony's Airpeak S1 Drone Now Included in the List of Drone Models That Are
Compatible with Drone Snap Being Jointly Developed By
MITSUI E&S and ZENRIN DataCom
~Demonstration Experiment Conducted on a Crane
At MITSUI E&S Oita Factory~**

MITSUI E&S Co., Ltd. (Headquarters: Chuo-ku, Tokyo, President: Takeyuki Takahashi, hereinafter "MITSUI E&S") and ZANRIN DataCom Co., Ltd. (Headquarters: Minato-ku, Tokyo, President: Tatsuhiko Shimizu, hereinafter "ZENRIN DataCom") have announced that they have confirmed that their jointly developed Drone Snap application for the automatic generation of inspection drone flight paths is compatible with the Airpeak S1 drone made by Sony Group Corporation. The Airpeak S1 is now included in the list of drone models that are compatible with Drone Snap.

To confirm compatibility, the following demonstration experiment was conducted on cranes in the Mitsui E&S Oita Factory.

Summary of demonstration experiment

1. Purpose:

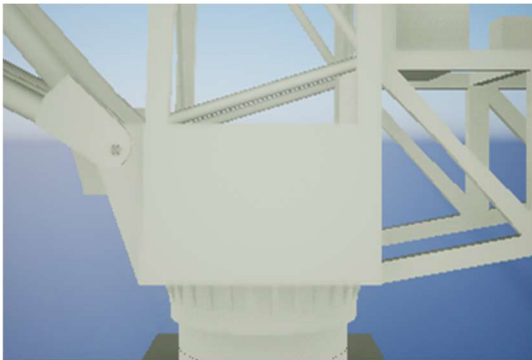
- ① To verify Airpeak S1 connectivity with Drone Snap and flight
- ② To verify the quality of images taken of the inspection area

2. Equipment and service used:

- ① Sony Airpeak S1 drone
- ② Sony α™ ILCE-7RM5 full-size mirrorless interchangeable lens camera
- ③ Softbank ichimill high-precision positioning service (RTK positioning)

3. Experiment details and results of verification:

- ① Airpeak S1 and Drone Snap connectivity and flight verification
⇒ It was verified that it was possible to shoot at the same angle of view as pre-set using Drone Snap.



Pre-set image on Drone Snap



Actual image

- ② Verification of the quality of images taken of the inspection area
⇒ Images of a quality adequate for visual inspections were taken.
(0.3 mm cracks were confirmed)

4. Role of each company:

- ① MITSUI E&S:
Flight route setting, on-site drone operation and inspection work
- ② ZENRIN DataCom:
Preparation of a program to link Drone Snap to Airpeak S1
- ③ Sony:
Provision of drone and camera, support for connecting Drone Snap and Airpeak S1

Images automatically taken by drones can be stored in the cloud along with inspection results using MITSUI E&S's CARMS product, a next-generation remote monitoring system for container cranes, and Drone Snap Cloud, a drone image management system and be used for efficient operations management.

These tools and Drone Snap were jointly developed by MITSUI E&S and their group company, MITSUI E&S Systems Research Inc. MITSUI E&S is also currently developing a technology that enables the automatic quantitative evaluation of the presence or absence of rust and the amount of rust (quantifying the amount of rust in the inspection area) by analyzing the captured images.

The MITSUI E&S Group will continue to contribute to solving the challenges of a society with a shrinking population through the use of digital technology.

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