



July 14, 2022
ACSL Ltd.

Notice of the launch of “PF2-AE”, a new lineup of domestic industrial drones

ACSL Ltd. (ACSL) announces that it will begin accepting orders for three types of industrial drones customized based on ACSL-PF2, a domestically produced mid-size platform drone, to make it easier to use and more secure, as "PF2-AE (Advanced Edition)" from August 2022, as described below.

1. Overview of product

ACSL-PF2, a medium-sized platform drone that ACSL has been selling, has been used in various applications such as logistics, disaster monitoring, infrastructure inspection, security/patrol, and surveying, by customizing the drone to meet customer needs. Through repeated proof of concepts with many companies, the challenges and necessary functions and specifications for introducing drones in the logistics, infrastructure inspection, disaster relief, and security/patrol have become clear. Based on the results and experience gained from the proof of concepts to date, we have decided to develop and market three types of "PF2-AE (Advanced Edition)": “PF2-AE Delivery (logistics)”, “PF2-AE Inspection (infrastructure inspection)”, and “PF2-AE Disaster Relief / Patrol (disaster/security/patrol)”. These products are also equipped with “TAKEOFF”, the same GCS as SOTEN small aerial photography drone, as the base station GCS (ground control system) and has an improved UI (user interface) to enable more intuitive operation by the customer.

2. Outlook

(1) Start of product orders

Orders are expected to be received from August 2022.

(2) Impact of product sales on financial results

We currently expect that the start of product orders will have a negligible impact on our business performance. However, we believe that the sales of these products will contribute to the promotion of social implementation of drones in Japan, market expansion, resolution of social issues and sustainable growth, and enhancement of our corporate value over the medium to long term. We will promptly announce any facts that should be disclosed in the future.



Attention

This document is an unofficial translation of the timely disclosure on July 14, 2022 by ACSL and this is for reference purpose only. In case of a discrepancy between the English and Japanese versions, the Japanese original shall prevail.

**ACSL, Announced “PF2-AE”,
a new lineup of domestic industrial drones**
– Orders for three types of drone designed to be easier to use and more secure
will be accepted starting in August 2022 –

ACSL Ltd. (ACSL) (Head office: Edogawa-ku, Tokyo; President: Satoshi Washiya) will begin accepting orders in August 2022 for three types of industrial drones customized to make ACSL-PF2, a domestically produced mid-size platform aircraft, easier to use and more secure, as PF2-AE (Advanced Edition).



■Background

Easier to use

As a medium-sized platform drone, ACSL-PF2 has been considered for use in various applications such as logistics, disaster situation monitoring, infrastructure inspection, security/patrol, and surveying, by customizing the drone to meet customer needs. In doing so, we have found the following issues.

- Customers are new to utilizing industrial drones, so they don't know what kind of features and specifications will solve our company's problems.
- Time and cost are required to determine what kind of drone is best, and this is an obstacle to introducing a drone.
- Customers want to change the camera to use the drone for other purposes, but it takes time and money to customize the camera each time.
- UI (user interface) is easier to introduce if it is intuitive even for beginners.

ACSL has conducted proof of concepts with many companies, it has become clear what functions and specifications are necessary to promote more social implementation of industrial drones in the logistics, infrastructure inspection, disaster relief, and security/patrol. Based on these achievements and experiences, ACSL is pleased to announce three customized PF2-AE models: “PF2-AE Delivery (logistics)”, “PF2-AE Inspection (infrastructure inspection)”, and “PF2-AE Disaster Relief/Patrol (disaster/security/patrol)”. In addition, the base station software, “TAKEOFF”, a dedicated application similar to that of SOTEN small aerial photography drone, will enable more intuitive operation, which we believe will help customers solve their problems.

More secure

Industrial drones are attracting attention as one of the robotics technologies for solving various social problems associated with Japan's declining birthrate and aging population, and are expected to become more closely related to our daily lives in the future.

In September 2020, the Japanese government announced its policy of "limiting procurement to drones with guaranteed security" and "promptly replacing existing drones," which has increased demand for drones with high security.

In addition, based on the revision of the Civil Aeronautics Act in 2020, a registration system for unmanned aircraft will begin on June 20, 2022, and the rules surrounding drones are being developed.

PF2-AE is equipped with a flight controller that controls the drone, developed independently by ACSL from the source code level, and encrypts communications to reduce the possibility of information leakage. This makes it a secure and safe drone. It is also equipped with a remote ID module and is compliant with the registration system for unmanned aerial vehicle.

■PF2-AE available in three types

① 「PF2-AE Delivery (logistics)」

Specialized for logistics applications with LTE communication as standard

〈Feature〉

- Capable of transporting 1.5kg of content weight
- Two transmitters allow safe monitoring at takeoff and landing sites
- Marker landing function recognizes the landing mat for precise landing
- Video and telemetry transmission using LTE communications to ensure communications even in areas with poor visibility (enables out-of-sight flight)



[Click here](#) for product details (Japanese only)

② **「PF2-AE Inspection (infrastructure inspection)」**

Designed for inspection with common visible and infrared cameras

〈Feature〉

- Four types of cameras can be mounted (visible camera, infrared camera, visible camera with zoom function, etc.)
- The same gimbal can be used to replace four different cameras, allowing customers to easily change the gimbal to suit their needs
- Equipped with 360° horizontal collision avoidance for safe operation



[Click here](#) for product details (Japanese only)

③ **「PF2-AE Disaster Relief/Patrol (disaster/security/patrol)」**

Capable of out-of-sight flights via LTE communication

〈Feature〉

- Four types of cameras can be mounted as in PF2-AE Inspection (Cameras are available in visible and infrared, as well as a visible camera with zoom function, for a variety of inspection tasks)
- The same gimbal can be used to replace four different cameras, allowing customers to easily change the gimbal to suit their needs
- Video and telemetry transmission using LTE communications to ensure communications even in areas with poor visibility (enables out-of-sight flight)



[Click here](#) for product details (Japanese only)

■ **Equipped with a gimbal that can be attached to 4 interchangeable cameras**

“PF2-AE Inspection” and “PF2-AE Disaster Relief/Patrol” offer a choice of four different cameras to meet customer needs. The same gimbal can be used for all four types of cameras, allowing customers to easily switch between them according to their needs.

30倍ズームカメラ	フルサイズカメラ	点検向けAPS-Cカメラ	可視光 + 赤外線カメラ	マルチジンバル
DSC-QX30U	α 7RIV	UMC-R10C	FLIR 「Duo Pro R」	Gremsy 「PIXY A」
				

【About ACSL Ltd.】 <https://www.acsl.co.jp/en/>

ACSL is developing domestically produced industrial drones to reduce manpower and unmanned operations in the industrial field. In particular, ACSL provides state-of-the-art autonomous control technology with image processing and AI edge computing technology, as well as industrial drones equipped with this technology. Our drones are already being used in various fields such as infrastructure inspection, postal and logistics services, and disaster prevention.

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