

March 13, 2023

ACSL Ltd.

ACSL Received Level 4 Class1 UAS Type Certificate as the First Company in Japan from the Ministry of Land, Infrastructure, Transport and Tourism

- The law partially amending the Civil Aeronautics Act came into effect on December 5, 2022, and the UAS type certification system for unmanned aerial vehicles (drones) started.
- ACSL developed a drone for Level 4 (BVLOS in a manned zone) and obtained Class1 UAS Type Certificate for the first time in Japan from the Ministry of Land, Infrastructure, Transport and Tourism on March 13, 2023.
- Scheduled to conduct Level 4 flights until the end of March 2023.

ACSL Ltd. (Edogawa Ward, Tokyo; Satoshi Washiya, President, hereafter ACSL) received a Class1 UAS Type Certification^{*1} for the first time in Japan today under the UAS type certification system in the law partially amending the Civil Aeronautics Act came into effect on December 5, 2022

ACSL will now proceed with the application for Class1 UAS Aircraft Certification^{*2} for the ACSL-Type PF2-CAT3 ("PF2-CAT3"), which has acquired type certification to conduct Japan's first Level 4 flight (BVLOS in a manned zone) until the end of March 2023.



Japan's first drone PF2-CAT3 to receive Class1 UAS Type Certificate



Testing for Class1 UAS Type Certification

■ Representative Director, President Washiya comment

Today, for the first time in Japan, the Ministry of Land, Infrastructure, Transport and Tourism (MLIT) issued us with a Class-1 UAS Type Certificate. This is the result of our employees' concerted efforts to conduct inspections and tests to prove the safety and uniformity of Level 4-compliant UAS, with the support of the Ministry of Land, Infrastructure, Transport and Tourism and all related parties since the system was launched on December 5, 2022.

In Level 4 flights, it is necessary to develop drones that are designed to fly over people, and they must be safer than ever before. PF2-CAT3 has been tested in all kinds of environments and conditions and has been judged to comply with the safety and uniformity standards under the Civil Aeronautics Act.

ACSL believes that our mission is to create new markets and to lead the drone industry. Having obtained Japan's first Class1 UAS Type Certification, we are going to promote the social implementation of drones to make them increasingly familiar to people in the future.

■About PF2-CAT3

Item	Summary
Model name	PF2-CAT3
Size	1,174mm×1,068mm×601mm (Including propeller)
Weight	Drone: 5.5 kg Battery: 3.3kg Maximum payload: 1.0 kg Maximum takeoff weight: 9.8kg
Maximum speed	Horizontal: 10m/s (36km/h) Ascending: 3m/s Descending: 2m/s
Maximum flight time	20 min (at minimum landing weight) 17.5 min (at maximum landing weight)
Auxiliary safety devices	Equipped with a parachute manufactured by Nippon Kayaku Co., Ltd.



PF2-CAT3



Parachute opening
Courtesy of Nippon Kayaku

■Reference

※1 Class1 UAS Type Certification

The Class1 UAS Type Certification System is a certification system under which the Ministry of Land, Infrastructure, Transport and Tourism inspects the strength, structure and performance of unmanned aircraft of a type intended to contribute to specified flights under the Civil Aeronautics Law to ensure that the design and manufacturing process conform to safety and uniformity standards. The program was launched on December 5, 2022.

※2 Class1 UAS Certification

The Class1 UAS Certification System is a certification system to inspect the strength, structure and performance of unmanned aircraft intended for specific flights to ensure that the design, manufacturing process and current status of the aircraft conform to safety standards. Unmanned aircraft of a type that has received type certification are exempted from all or part of the inspections required for airframe certification.

ACSL Ltd.

ACSL develops, manufactures, and commercializes industrial drones in order to realize labor-saving unmanned operations in industrial applications. ACSL's core technology is in its proprietary autonomous control technology and industrial drones equipped with image processing and AI edge computing technology. ACSL drones are already used in a variety of applications such as infrastructure inspection, postal delivery and logistics, and disaster prevention.

For more information visit <https://www.acsl.co.jp/en/>

Attention

This document is an unofficial translation of the timely disclosure on March 13, 2023 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.