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Overview

Boresight BF100 UAT Demonstrator

Boresight's BF100 Demonstrator[1] is a Group 1 fixed-wing Uncrewed Aerial Target (UAT) designed to provide customers with a target that emulates the flight profiles exhibited from slow to medium speed fixed-wing drones. The BF100 demonstrator utilizes a rail launch and flared belly-landing recovery. The Demonstrator will be operated by Boresight personnel for demonstration purposes only.



Interoperability

All Boresight UAT are interoperable and swarm capable when used with Boresight's GCS operating system and ground equipment. As of June 2026, this includes swarm operations of up to 20 multi-rotor aircraft, including multi-group and mixed-swarm operations. Integration of single type fixed-wing swarming and multi type fixed-wing/multi-rotor swarming is in active development with the expected customer release before Q4 2026. The Demonstrator has not been fully integrated into Boresight's swarming software.

Specifications

	Demonstrator	Product
Maximum Take-off Mass	1.5kg	1.5kg
Wingspan	1000mm	1000mm
Field Assembly	Assembled by Boresight personnel	No tools, 3 part assembly*
Typical Battery Capacity	4200mAh	5000mAh
Transmission Range	up to 5000m	up to 5000m
Operating Temperature	0°C - 40°C	0°C - 40°C
Max Endurance	20 min*	30+ min*
Maximum Flight Speed	25 m/s*	25 m/s*
Frequencies	2.4GHz	2.4GHz (other bands available)
Swarming Capable	Nil	up to 5 UAT (Q1 27)
Payload	Nil	Up to 250g*

[1] The *Demonstrator* has the same size, weight and fixed-wing flight performance as the BF100 product with the exception of the launch and recovery method.

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