

RT-TARGET 10

SMARTER TARGETS. STRONGER DEFENCE.



The Rotron RT-Target10 is a compact, high-performance aerial target drone engineered for precision training, testing, and evaluation missions. Designed to support swarm operations and built with fully NDAA-compliant components, the RT-Target10 combines advanced flight control, robust telemetry, and precise navigation systems into a lightweight and versatile platform.

With a flight endurance of 10 minutes and seamless support for 2-6 UAS in coordinated swarm scenarios, the RT-Target10 delivers reliable performance in demanding operational environments.

Ideal for military training, system calibration, and UAV interception drills, the RT-Target10 provides a cost-effective, scalable solution for modern defence and aerospace applications.

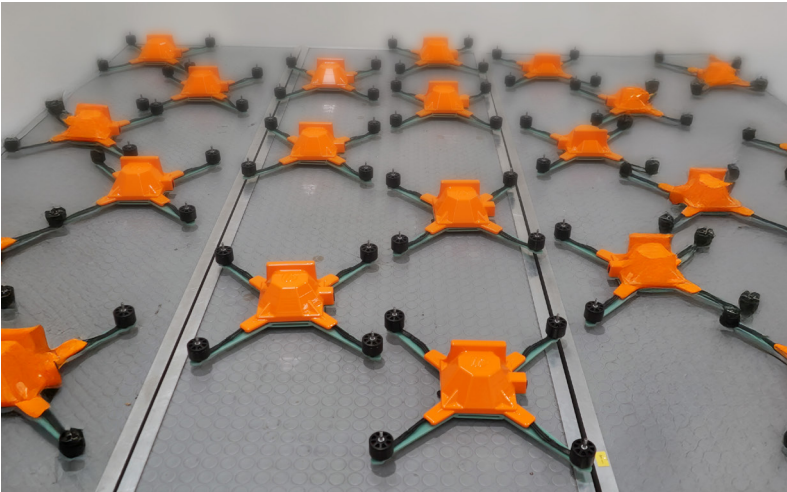
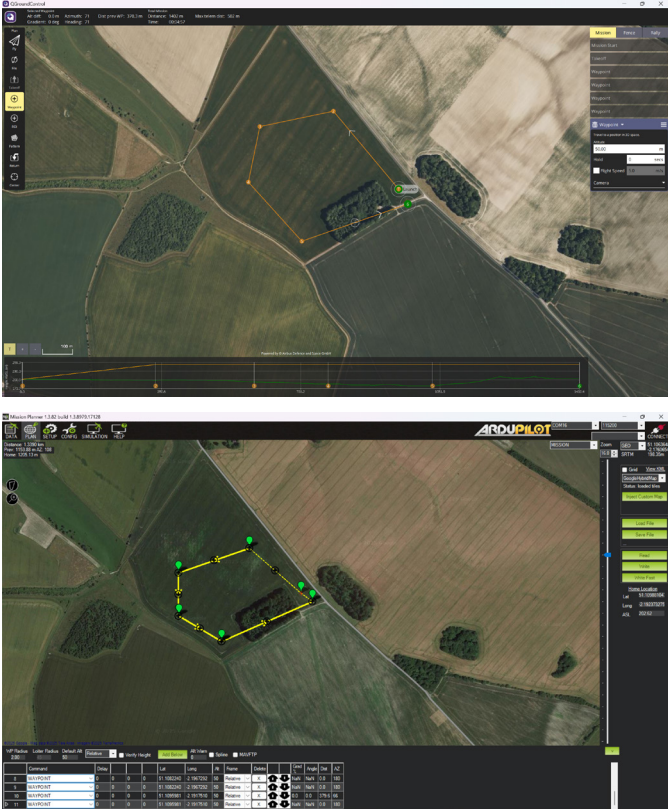


Description	Specification
Propeller Diameter	10 inches (254 mm)
Wheelbase	16.93 inches (430 mm)
Maximum L x W x H	21.97 x 21.97 x 5.1 inches (558.1 x 558.1 x 129.4 mm)
Propeller Ground Clearance	3.6 inches (91.5 mm)
Endurance	10 minutes
Mass (No Battery)	1000 g
Total Mass	1300 g
C2-Link	RFDesign RFD900x-US 900MHz Radio
Telemetry Encryption	AES-128 Available
Flight Controller	Rotron H743, Ardupilot Copter
ESC	65A 4in1 ESC, AM32
GNSS+Compass	Rotron SAM-M10Q GNSS + Compass Module
Battery	1000 g
Swarm Supported	1000 g

The RT-Target10 is designed for efficient mass production, enabling rapid delivery of consistent, high-quality units. Its modular architecture and streamlined assembly support large-volume orders and swarm deployment, making it ideal for training and testing scenarios that require multiple aerial targets—all while maintaining full NDAA compliance.

Standard GCS Integration

The RT-Target10 is compatible with standard Ground Control Software's (GCS) including Mission Planner and QGroundControl (QGC and QGC-GOV). This allows operators to utilise the GCS they are most familiar with, decreasing training time. Both GCS offer autonomous mission planning, guided mode support, and telemetry monitoring.



Rotron SAM-M10Q GNSS + Compass Module	
GNSS Receiver	Ublox SAM-M10Q-00B
Position Accuracy (CEP)	1.5 m
Supported Constellations	GPS / QZSS + GALILEO + BDS + GLONASS
Supported Signals	L1C/A (1575.42 MHz) / E1-B/C (1575.42 MHz) L1OF (1602 MHz) / B1C (1575.42 MHz)
Compass (Magnetometer)	IST-8310
Interface	UART + I2C

Rotron H743 Flight Controller Specification	
Chipset	STM32H743
IMU + Gyro	ICM-42605
Compass (Magnetometer)	IST-8310
Barometer	BMP-581
USB Connectivity	USB-C
Storage	8 GB Micro-SD (Supports up to 32 GB)
LUA Scripting	Yes

Swarm capability:

The RT-Target10 supports swarms of up to six systems. Utilising a follow the leader methodology, the operator can direct and navigate the swarm to follow a lead UAS. The operator needs only to setup the swarm and pilot the lead UAS. Each of the followers will navigate at a preset offset to the leader.

ABOUT ROTRON AEROSPACE

Rotron Aerospace are specialists in designing and manufacturing UAS propulsion systems and VTOL aero-systems. As industry leaders and operators of long-range VTOL air systems, Rotron Aerospace enables safe and cost effective aerial intelligence solutions for surveillance, inspection, search and rescue missions, cargo delivery and aerial deployment of FPV drone systems beyond visual line of site.

Founded in 2008 to create the lightest, most powerful, and vibration-free power units, Rotron Aerospace now supplies some of the world's largest aerospace OEMs and UAS manufacturers.