

**TEKEVER**

# AR5 MISSION: PATROL

Delivering insight into the unknown.  
Meet Europe's first UAS-based  
maritime surveillance system.



-  Wide Area Surveillance
-  Maritime Surveillance
-  Border Patrol
-  Pollution monitoring
-  Fisheries inspection
-  Communications Relay

- DESIGNED FOR MARITIME AND LAND MISSIONS
- ITAR FREE
- SATCOM ENABLED
- SIMULTANEOUS EO/IR, SAR AND AIS
- ADVANCED AI ANALYTICS
- LIFE-RAFT DROP CAPABILITY
- SIGINT



We do the technology  
You do the mission

Together, **TEKEVER**



info@tekever.com  
www.tekever.com

# AR5

The AR5 is a medium-altitude and medium-endurance fixed wing UAS.

Search & Rescue, maritime surveillance and patrol missions benefit from the increased endurance, reduced operating costs and lower risk to life offered by the AR5.

- Real time collection, processing and transmission of high definition video from multiple EO and IR sensors.
- Redundant critical flight systems, including twin engines
- Sub-Tactical UAS ranging up to 180Kg MTOW
- BRLOS - Beyond radio line of sight satellite communications
- High precision video, imagery and sensor data in real-time
- Flexible architecture, supporting multiple types of payloads and datalinks
- Highest production standards, accordingly with EASA regulations
- Used in multiple collaborative projects for testing and validation
- Selected to create the first European-wide UAS-based Maritime Surveillance System
- ITAR Free
- Fully managed RLoS and BRLoS - Radio line of sight datalink handover
- Takeoff from short unpaved runways
- Automatic take-off and landing (ATOL)
- 30X optical zoom

## AR5

	Dimensions	7.3 m x 4.0 m
	MTOW	180 kg
	Payload Capacity	50 kg
	Flight Endurance	20 hours
	Comms Range	unlimited
	Cruise Speed	100 km/h
	Launch Method	unprepared airstrip
	Recovery Method	unprepared airstrip

## PAYLOAD OPTIONS

- 5 sensor gyro-stabilized gimbal
- Multiple EO/IR sensors
- AIS and EPIRB
- Maritime Radar
- SAR
- SIGINT
- LifeSaver

## AT THE SERVICE OF:



**F** Automatic Take-off & Landing.



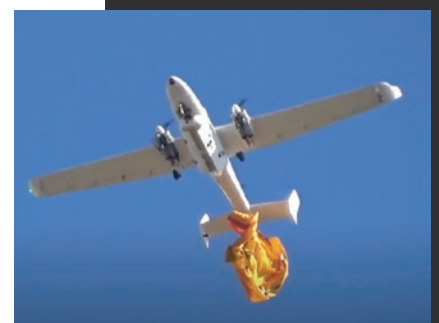
**F** Satcom enabled.



**F** Flexible payload options.



**F** Unprepared airstrip









**F** Life-raft drop capability.

# AR5 MISSION: DEEP FIND

Delivering insight into the unknown.  
Proven in the harshest operational conditions,  
delivering critical intelligence for decision makers.



-  Wide Area Surveillance
-  Maritime Surveillance
-  Border Patrol
-  Pollution monitoring
-  Fisheries inspection
-  Communications Relay

- DESIGNED FOR MARITIME AND LAND MISSIONS
- ITAR FREE OPTIONS
- SATCOM ENABLED
- SIMULTANEOUS EO/IR, SAR AND AIS
- ADVANCED AI ANALYTICS
- LIFE-RAFT DROP CAPABILITY
- SIGINT



# TEKEVER AR5

Key Points for this configuration:

## SAR Capability

- Integration of IMSAR NSP-7 or NSP-5 enabling Synthetic Aperture Radar, Inverse SAR, and both Maritime and Ground Moving Target Indication (MMTI/GMTI)
- Onboard processing for near real time SAR analysis
- All weather surveillance, dynamic target tracking
- Detections of concealed targets in dense foliage
- 55km detection ranges SAR
- 24km GMTI ranges
- Automatic detection algorithms

## Communications REBRO

- 60km rebro to other aerial assets (like AR3)
- Enhances EW resilience of other UAS assets
- Integration with Link-16

## Enhanced EO/IR and Laser Designator

- Integration of Hoodtech AC14
- Wide angle and telescope capabilities
- MWIR and SWIR
- High powered Laser Designator to support munitions

## Long Range ELINT

- Equipped with with phased array ELINT payloads to deliver geolocation and direction finding to ranges up to 200km

## Persistent Surveillance

- Configuration can deliver up to 16 hours endurance
- 1500km coverage one way sortie or 750km return missions

## EW Resilient SATCOM

- High band SATCOM with GNSS/GPS denied environments
- Custom autopilot with EW resilient features
- VBN module available for additional alt navigation resilience

## Enhanced Mobility

- Requires only a 300m unprepared strip of terrain

## AR5

	Dimensions	7.3 m x 4.0 m
	MTOW	180 kg
	Payload Capacity	50 kg
	Flight Endurance	16 - 20 hours depending on payload
	Service Ceiling	3600 m
	Comms Range RLOS	230 km
	Comms Range SATCOM	unlimited
	Cruise Speed	100 km/h
	Launch/Recovery Method	Runway / Unprepared airstrip 200-300m

## PAYLOAD OPTIONS

- 5 Sensor gyro-stabilized gimbal
- Multiple EO/IR sensors
- AIS and EPIRB
- LifeSaver
- Maritime Radar
- SAR
- SIGINT and ELINT

## AT THE SERVICE OF:



Automatic Take-off & Landing



Satcom enabled



Flexible payload options



Unprepared airstrip



Life-raft drop capability