TEKEVER


# AR3 EVO

## YOUR MISSION, YOUR CONFIGURATION

The TEKEVER AR3 EVO is a next-generation, multi-role Unmanned Aerial System (UAS), combining modularity, autonomy, and proven operational performance. Designed and manufactured in Europe, and tested in frontline deployments, it offers unrivalled mission adaptability — whether in maritime, land, or contested airspace.

With a dual deployment system (VTOL and fixed-wing), the AR3 EVO enables rapid launch and recovery, even in confined or mobile environments. Its advanced autonomy, plug-and-play architecture, and minimal logistical footprint make it ideal for today's dynamic operational theatres.

MISSION **READY**

COMBAT **PROVEN**

**MODULAR**

YOUR EYES ON THE UNKNOWN

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KEY FEATURES

## One System, Multiple Aircraft

Deploy multiple platforms with distinct configurations, working in coordination for the same mission objective.

## Fully Modular Architecture

Adapt payloads, comms, propulsion and launch method according to mission requirements.

## Precision VTOL Capability

Operate from just 5x5 metres, including ship decks and unprepared terrain.

## Mission-Ready in Minutes

From case to airborne in under 5 minutes. Operator training in 5 days.

## Flexibility in Four Pillars

### PAYLOADS

SENSORS FOR SURVEILLANCE, SAR, TARGETING AND MORE

### DEPLOYMENT

FIXED-WING OR VTOL, CHOSEN PER MISSION

### PROPULSION

ELECTRIC, COMBUSTION OR HEAVY-FUEL, OPTIMISED FOR ENDURANCE, SPEED OR ALTITUDE

### COMMS

PLUG-AND-PLAY: SATCOM, LTE OR LINE-OF-SIGHT

# MISSION PROFILES

AR3 EVO battle proven

## DETECT & IDENTIFY

Designed for Intelligence, Surveillance and Reconnaissance (ISR), this configuration enables persistent monitoring, target detection, and classification — even in complex or GPS-denied environments.

Typical Payloads:

- **EO/IR or HD Gimbals**
- **SAR radar**
- **GMTI function**
- **SIGINT sensors**
- **Tactical datalinks**
- **Laser designator**

## ELECTRONIC ATTACK

Supports electronic warfare operations and tactical effect delivery, including electronic denial and jamming operations, using focused configurations built around reliability and precision.

Typical Payloads:

- **Directional EW antennas**
- **Anti-jamming modules**
- **Target-specific communication nodes**
- **Laser designator**

## COMMUNICATIONS RELAY

Ideal for extending operational reach in cluttered and arduous terrain or EMS contested zones, this setup provides a secure communication bridge between dispersed ground units, platforms, or C2 nodes.

Typical Payloads:

- **Mesh network radios**
- **SATCOM / LTE**
- **IFF and ADS-B transponders**

## MARITIME WIDE AREA SURVEILLANCE

Equipped for persistent monitoring over littoral or open-ocean environments, detecting illicit activities, monitoring wildlife, and providing wide-area situational awareness.

Typical Payloads:

- **EO/IR gimbals**
- **AIS receivers**
- **Maritime VHF**
- **SAR radar**

Landing on ship on 5x5m

## COMPATIBLE PAYLOADS & SENSORS

### PLATFORM SPECIFICATIONS

| | |
|---|---|
| MTOW: | 25 kg (up to 30 kg in VTOL) |
| Endurance: | Up to 22h (FW) / 14h (VTOL) |
| Payload Capacity: | 6 kg |
| Cruise Speed: | 46 knots |
| Comms Range: | Up to 230 km |
| Launch / Recovery: | Catapult / VTOL / Parachute |
| Dimensions: | 4.2 m (W) x 1.96 m (L) |

### GIMBALS (EO/IR)
Trillium HD80, HoodTech AC11, AC06 LD, TEKEVER Gimbal, Octopus Epsilon E140, Nextvision Raptor

### RF / Comms
Silvus, Persistent Systems, Radionor, Doodle Labs, Microhard, Starlink, Honeywell Versawave, DTC, ridium, Trellisware TSM, Link 16

### AIS / VHF
AIS Receiver, Maritime VHF, Aeronautical VHF

### TRANSPONDERS
Mode S ADS-B IN/OUT, IFF Mode-5

### RADAR (SAR/ISR)
IMSAR NSP-3

### ELINT / SIGINT
CRFS, ESROE, Revector, Lifeseeker

### ELECTRONIC WARFARE
CRPA Antennas

### OTHERS
EPIRB, Overwatch PT-6

**ENGINEERED IN EUROPE.**
**TRUSTED WORLDWIDE.**

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# AR3 HOT-SWAPPABLE VTOL INTEGRATED SAR

A modular & transformable asset, with optional VTOL capability, for extended aerial operations, especially in difficult terrain conditions. AR3 - VTOL option is the ideal choice for meeting evolving mission requirements.

- ISTAR Missions
- Wide Area Surveillance
- Border Protection
- Maritime Surveillance
- Communications Relay
- Pollution Monitoring
- Infrastructure Monitoring
- Artillery Correction

EASY LAUNCH & RETRIEVAL

ITAR FREE

LOWEST TOTAL COST OWNERSHIP

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## AR3 BESPOKE FEATURES, BATTLE-TESTED:

Swappable modular communication that enables operators to rapidly swap their radio bands in the field to match allied communications networks or frustrate enemy detection

Optional radios (Silvus and Persistent Systems C-band and S-band radios), combined with TEKEVER designed extended LRTA for increased RLOS ops (2, 3 and 4 dishes, depending on radio model) - successfully operated over 220Km

Built for enhanced operations in jammed environments with multi-layered systems of EW resilience:

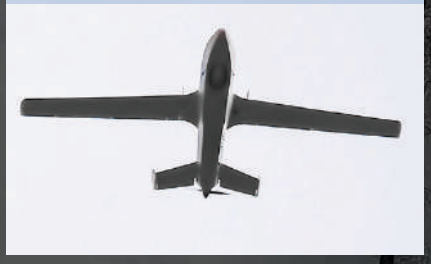
- Modular CRPA antenna with full range of options
- Alternative navigation sensors
- Unique anti-spoof autopilot coding
- 'No GPS' operator mode to enable flight operations in completely jammed environments - GPS denied operations

- Specially designed and proven low RCS to minimise radar detection against a wide range of military radar systems
- Heated pitot tubes to enable ops in icing conditions
- Higher powered engines to enable operations at higher altitudes, with steeper ascend/descend
- Low logistics footprint, system integrated into multiple vehicle fits
- Complex network architecture to enable meshing heterogeneous communication channels (e.g. radio link, starlink, SATCOM)

## AR3

| | |
|---|---|
| Wingspan | 4.2 m |
| Length | 1.7 m |
| MTOW | 25 kg |
| Payload Capacity | 4 kg |
| Flight Endurance | 8 - 16 hours payload dependent |
| Service Ceilling | 3,600 m |
| Comms Range | 230 km |
| Cruise Speed | 85 km/h |
| GCS | Common GCS with AR4, AR3 and AR5<br>Supports multiple operators and aircraft |
| Launch Method | VTOL or Pneumatic Launcher |
| Recovery Method | VTOL or Parachute/Net/Belly/Water |

5 minutes from case to airborne



VTOL and fixed wing system - 2 in 1

## PAYLOAD SENSORS OPTIONS

- Hoodtech Alticam 06EOIR / 06EO / 06EO LD
- TEKEVER EO + LWIR Gimbal
- Trillium HD55-LV / HD55-MV / HD55-VV / HD45
- Octopus Epsilon 140
- TEKEVER EO + MWIR Gimbal
- Next Vision Raptor

## PAYLOAD OPTIONS

- Laser illuminators and rangefinder
- Communication relay systems
- VHF Comms
- Laser Designator
- Multiple options for EO sensors
- Multiple options for near-infrared to LWIR and MWIR sensors
- SAR (Synthetic Aperture Radar)

Integrated synthetic aperture radar

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# 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**

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# 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:

esa

EMSA

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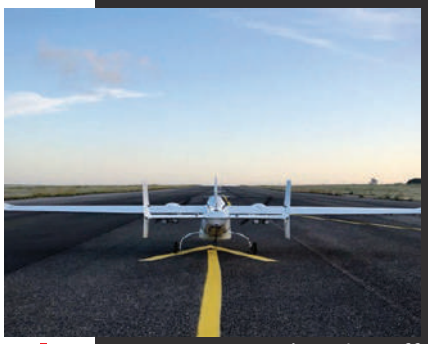

Automatic Take-off & Landing.

Satcom enabled.

Flexible payload options.

Unprepared airstrip

Life-raft drop capability.

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# 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**

Your eyes on the unknown

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# 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 capabitliies
- 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

## Persistant 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 Ceilling | 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:

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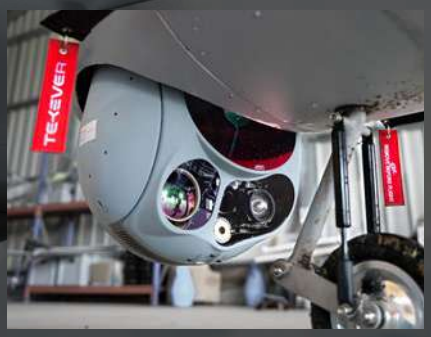
Automatic Take-off & Landing

Satcom enabled



Flexible payload options

Unprepared airstrip

Life-raft drop capability

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# ATLAS

## REAL-TIME AI INTELLIGENCE AS-A-SERVICE

TEKEVER ATLAS is a tool designed to enhance UAV missions. It provides advanced Artificial Intelligence (AI) analytics onboard for real-time and historical data processing.


NO SOFTWARE INSTALLATION

REAL TIME DATA

NO INTERNET REQUIRED

REPLAY MISSION CAPABILITY

Your eyes on the unknown

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# ATLAS - MISSION ENHANCER

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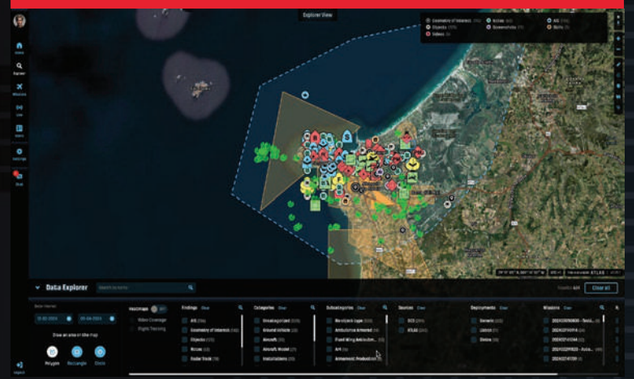
**ATLAS** equips key users with essential tools for strategic analysis and operational excellence, ensuring superior mission outcomes.

## Additional UAV Mission Features:

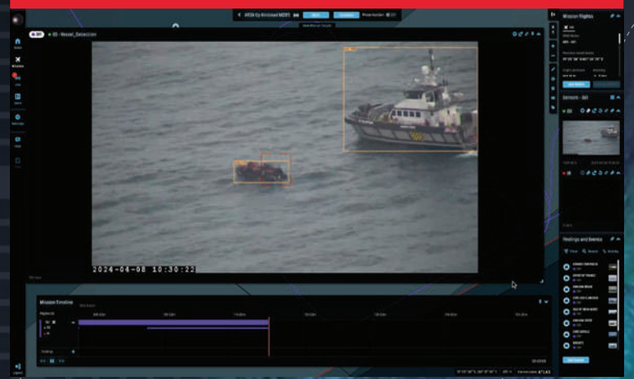
- **TEAM COLLABORATION** Tools
- **REPORTING** Metrics
- **GCS** Integration
- **FIRST PERSON VIEW** Streaming

### 01. ATLAS DATA EXPLORER



Users can navigate extensive datasets, facilitating in-depth analysis and comparison of outcomes across various missions and timeframes.

### 02. OBJECT DETECTION

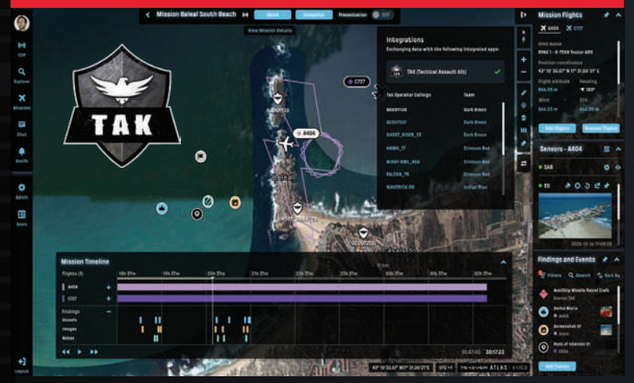


AI-driven object detection for real-time identification and tracking, enhancing situational awareness and operational efficiency.

### 03. MULTIPLE AIRCRAFT OPERATIONAL CAPABILITIES

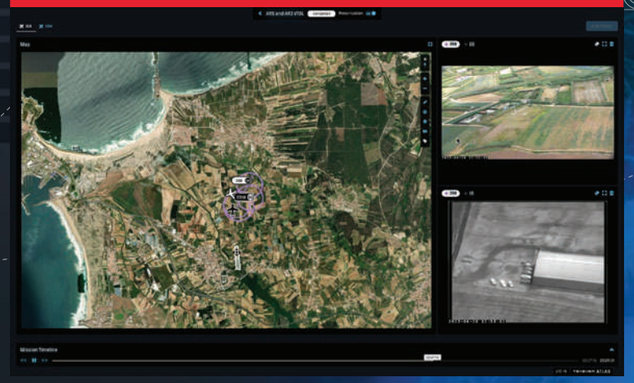
Seamless management of multiple UAVs enables coordinated operations, enhancing operational flexibility and coverage.

### 04. TEAM AWARENESS KIT INTEGRATION



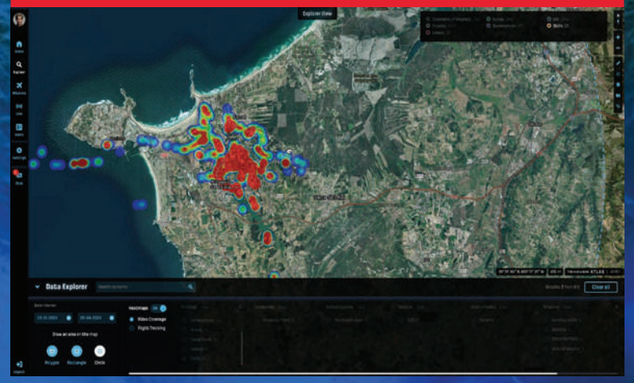

TAK integration boosts UAV surveillance, enhancing collaboration and situational awareness by merging real-time data with RVT applications.

### 05. MISSION REPLAY



As a visual data hub, ATLAS offers comprehensive flight monitoring and mission replay, enriching operational review and analysis.

### 06. HEATMAPS



Video Coverage and Flight Tracking tool, aiding precise surveillance and compliance analysis across missions and timeframes.

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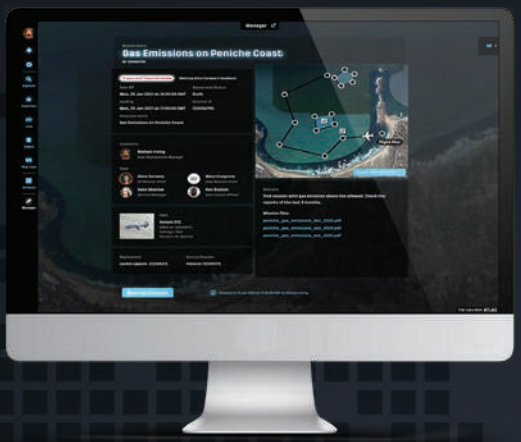
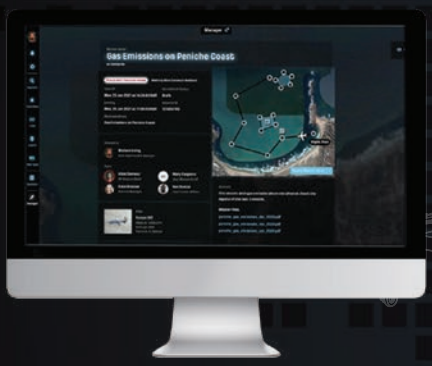
# ATLAS

Designed for key decision-makers, TEKEVER ATLAS provides intelligence onboard, as well as ground-based tools for real-time and historical data processing. Our proprietary AI/ML-powered data center ensures that the right information reaches the right person at the critical time.




UAV MISSION ENHANCER ATLAS

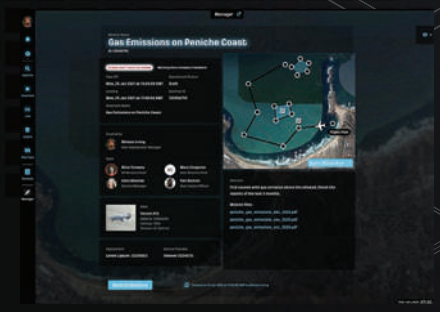
## PRE-MISSION




ATLAS enables key decision-makers to more effectively plan their missions by allowing them to easily design mission parameters such as areas of interest, objectives, and targets

### OPTIMIZE UAV MISSION PLANNING

- **CREATE** mission briefs
- **DEFINE OBJECTIVES** on the map
- **CHOOSE** aircraft
- **DEFINE** mission parameters
- **MANAGE** approval process with customizable workflow

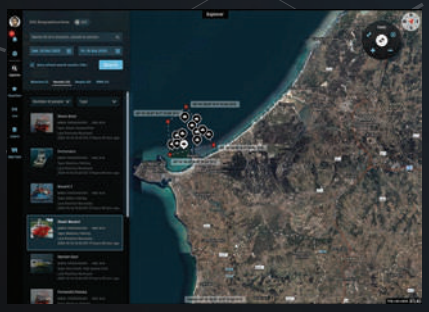



## DURING MISSION

Decision-makers can effectively plan missions by easily incorporating parameters such as areas of interest, objectives, and targets.

### REAL-TIME MONITORING AND DATA ANALYSIS

- **VIEW** specific details of interest
- **EXPLORE** past missions where areas, vehicles or objects were identified
- **REPLAY** missions and videos to review identified points of interest
- **CORRELATE** data across different missions for comprehensive analysis



## POST MISSION

End-users will be able to review specific details of any mission and easily retrieve historical data necessary for prosecution purposes.

### MISSION REPLAY AND REVIEW

- **REVIEW** data from completed missions
- **SEARCH** by geographical area or by mission-specific parameters
- **REVIEW** geographical areas covered by operation
- **REPLAY** mission as if in real-time
- **ANNOTATE** results with additional data