TEKEVER

ARX

THE GAME CHANGER

COMING SOON

* Conceptual design

Your eyes on the unknown

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TEKEVER

ARX

THE GAME CHANGER

Designed to provide a **multi-mission** operational capability and **multiple sensors consolidated** onto a single platform, surpassing its class.

- Up to 30h ENDURANCE
- MTOW 600 KG
- SATCOM
- +1000 KM RANGE
- CARGO DEPLOYMENT
- MULTIMISSION
- SWARM CAPABILITY

* Conceptual design

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ARX
The Game Changer

The TEKEVER ARX promises to revolutionize its class by offering a combination of long-range endurance, advanced onboard AI/ML capabilities, SATCOM and mesh connectivity, and readiness for GNSS-denied environments. With its fully modular payload configuration, including options for heavy lift, sensors, or deployable cargo, it presents also a wide array of sensor choices (EO/IR, MS/HS, LIDAR, AIS, ADSB, SAR SIGINT/COMINT/ELINT). This extensive feature set in a compact model with minimal logistical impact is set to transform the technology landscape in the long-range market.

TEKEVER ARX DIGITAL TWIN:

TEKEVER ARX will arrive on the market with a Digital Twin.

The ARX Digital Twin is a digital model of our system that serves as an effectively indistinguishable digital counterpart for practical purposes, such as simulation, integration, testing, monitoring, and maintenance. With this innovation, TEKEVER will facilitate all processes of operator training, sensor integration, and maintenance.

ARX
The Game Changer

SWARM CAPABILITY - each unmanned aerial vehicle (UAV) is capable of communicating with other, exchanging information, and coordinating their actions to accomplish complex tasks efficiently in challenging environments.

SATCOM AND MESH ENABLED, AND PREPARED FOR GNSS-DENIED ENVIRONMENTS

FULLY MODULAR PAYLOAD CONFIGURATION: HEAVY LIFT, SENSORS OR DEPLOYED CARGO

LONG RANGE AND TIME ON STATION

ADVANCED ONBOARD AI/ML CAPABILITIES

EO/IRA, MS/HS, LIDAR, AIS, ADSB, SAR SIGINT/COMINT/ELINT

SPECS:

ARX

Dimensions:	12m x 6.8m
Cruise Speed:	68 kt
Comms Range:	unlimited
MTOW:	600 kg
Payload Capacity :	150 kg
Endurance:	up to 30h
Maximum Speed:	171 kt
Range:	+ 1000 Km
Recovery:	Runway
Launch:	Runway
Sensors:	EO/IR, MS/HS, LIDAR, AIS, ADSB, SAR SIGINT/COMINT/ELINT

DUAL USE ARX:

Missions

- ISTAR MISSIONS
- WIDE AREA SURVEILLANCE
- BORDER PROTECTION
- MARITIME SURVEILLANCE
- COMMUNICATIONS RELAY
- ENVIRONMENTAL MONITORING
- INFRASTUCTURE MONITORING
- SWARM MISSIONS
- CARGO DEPLOYMENT
- WILDFIRE CONTROL
- MONITORING OF ILLICIT TRAFFIC

TEKEVER

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

We do the technology
You do the mission

Together, TEKEVER

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AR3

TEKEVER AR3 is a shipborne UAS designed to support multiple types of maritime and land-based missions, including ISTAR, pollution monitoring, infrastructure surveillance and communications support operations. Delivering up to 16 hours endurance, the AR3 is a perfect fit to support both maritime and land based missions.

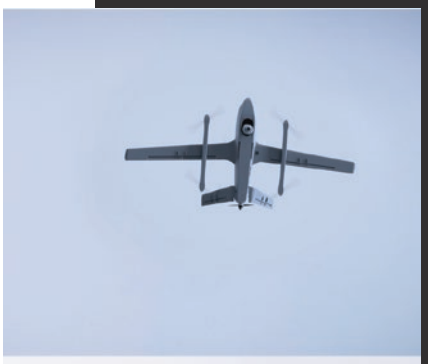
- Real time collection, processing and transmission of high definition video from multiple EO and IR sensors.
- 16h Endurance combined with LOS communications range of up to 150km, ideal for vessel-based maritime missions.
- Optional BLOS datalink available, allowing for extended range operations.
- Wide range of payload and sensor options according to each missions specific requirements.
- Artillery Correction capability for ground units.
- Reduced logistics footprint, configured for the most demanding tactical scenarios.
- Extremely easy to assemble, operate and store, assuring excellent readiness conditions.
- Launched using VTOL or a mobile catapult system, that can be easily transported and used.
- All terrain retrieval using deployable parachute and airbags for sensor protection.

AR3

	Wingspan	4.2 m
	Length	1.7 m
	MTOW	25 kg
	Payload Capacity	4 kg
	Flight Endurance	up to 16 hours
	Service Ceilling	3,600 m AMSL
	Comms Range	150 km
	Cruise Speed	85 km/h
	GCS	Common GCS with AR4, AR3 and AR5 Supports multiple operators and aircraft
	Launch Method	VTOL or Catapult
	Recovery Method	VTOL or Parachute/Net/Belly/Water

PAYLOAD OPTIONS

- Multiple options for EO sensors
- Multiple options for near-infrared to LWIR and MWIR sensors
- Laser illuminators and rangefinder
- Communication relay systems
- VHF Comms



VTOL and fixed wing system - 2 in 1.

5 minutes from case to airborne

Integrated synthetic aperture radar.

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AR3 HOT-SWAPPABLE VTOL INTEGRATED SAR

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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 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

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**

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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

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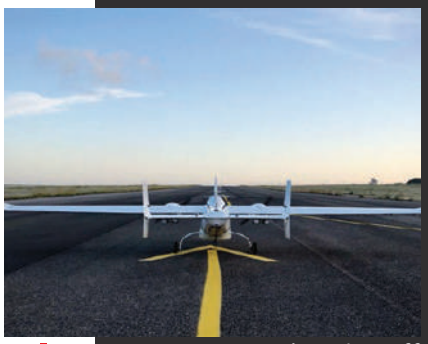

Automatic Take-off & Landing.

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

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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

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Automatic Take-off & Landing

Satcom enabled

Flexible payload options

Unprepared airstrip

Life-raft drop capability

TEKEVER

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

TEKEVER

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

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

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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.

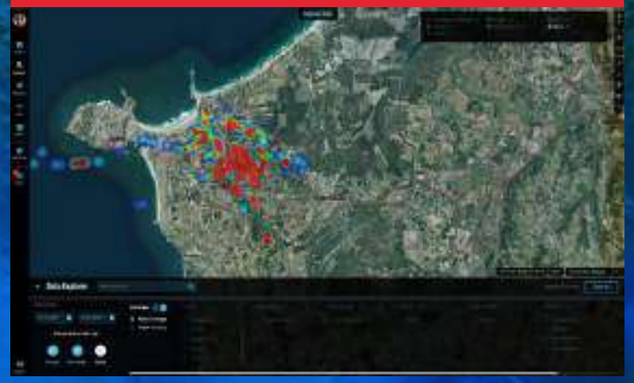
04. TEAM AWARENESS KIT INTEGRATION

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.