ADT
AVIATION DEFENCE TECHNOLOGIES

UNMANNED AERIAL VEHICLES

SURVEILLANCE

ASSAULT

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ADT renowned capabilities include all life cycle phases of its systems. It has an organizational and technological structure in all stages after the emergence of the system idea, research and product development, production and after-sales activities.

Our Research and Development capabilities in affiliation with engineering teams from ODTU (Middle East Technical University) include the complete design and development of UAV systems, aerial platforms and ground components with their subsystems. In addition to that, our activities are carried out according to the relevant military and civilian standards.

Fully in-house Tailor-Made Designed UAV systems are manufactured with their subsystems and components, integrated and offered to service after passing the detailed testing and quality control stages.

In our production activities, modern machines and equipment are used for high technology production. 3 and 5-axis advanced CNC machines, automatic assembly machines, autoclaves wide enough to produce long parts such as wings, composite furnaces and high precision measuring devices of various sizes are among the important equipment in our production area.

KIS envisions and has inspiration to build the most advanced technological systems on the global stage by advancing unmanned aerial systems. In line with their principles, we strive to ensure as independent, Turkey-centric a technology stack as possible. We further attempt to dovetail emerging high technology with mission-critical functions to offer our armed forces systems that are reliable, integrated, and complete.

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KSDS

UAV UVM-2E-R1
SURVEILLANCE

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KSDS (KIS Surveillance Drone System)

KSDS is a multi-rotor reconnaissance UAS solution engineered for general purpose reconnaissance and surveillance missions with indigenous mission planning software, autonomous intelligence, and operational capabilities.

It can be controlled via Ground Station and be deployed and operated by a single personnel. **KSDS** can be used effectively in tactical reconnaissance and surveillance missions, with its abilities to track fixed and moving targets and to automatically switch mission supported by indigenous and real time image processing and deep learning algorithms.

The system is comprised of "UAV Platform" and "Ground Control Station" components.

KSDS

UAV UVM-2E-R1
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GENERAL SPECIFICATIONS

Aerial Vehicle Technical Specifications

Number of Rotors	4
Propeller Specifications	30x9
Ammunition Capacity	Surveillance
Data and Video Link	30 km -
Autopilot	YES
Flight Time	30 min with 2.6 kg payload
Cruise Speed	15 m/sec
Max Speed	20 m/sec
Flight Range	More than 15 km radius
Length (With Propeller)	2012 mm
Length (Without Propeller)	1200 mm
Rotor Diameter	812 mm
Wind Resistance	13 m/s
Battery	12S 60AH (Li-Ion Battery)
Charger	YES
Max. Altitude	6000 m MSL
Max Payload	2.6 kg
MTOW	25.6 kg
Max. Climb rate	5 m/s
Max. Descent rate	3 m/s
Max wind resistence	13 m/s
Operational range	>=15 km radius
Practical ceiling	5000 msl
Endurance	30 min with 2kg payload
Onboard power supply	48 V - 24 V - 12 V - 5 V
Temperature range	-40°, + 60 ° C
Base takeoff and landing area	3m x 3m
Take off and landing	Fully Autonomous
Portable GCS	YES
Dustproof and waterproof	YES
Rugged Case	YES

Camera Systems

Thermal Camera	704x576 Thermal
Daytime Camera with Zoom	3840x2160 (ch1) 1920x1080 (ch2) 3.5X Optical Zoom
Recording	1080p

Ground Station

Rugged Control Laptop	YES
Tracker Antenna 360	YES
Rugged Case	YES

GPS

Antijamming System	Tualaj ANTY

Mission Control & AUTO Pilot Software Specifications

Automatic Take Off & Landing	YES
Automatic Return To Base	YES
Blind Flight Control without GPS	YES
Fleet Flight Feature	NO
Video Log & Transmit At Line Of Sight	YES
Interactive Mission & Flight Planner	YES

Camera Recording

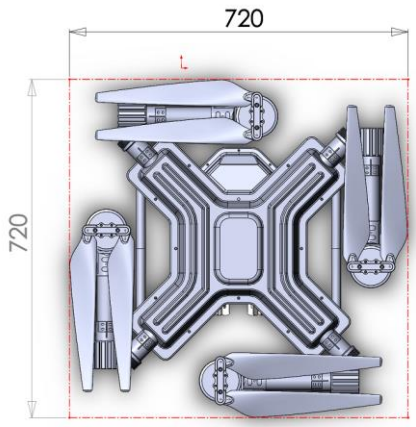
Video recording in Micro SD Card, Photo Saving

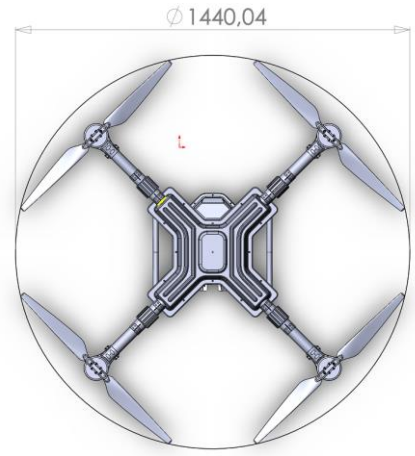
Antijamming GPS Options

Tualaj 8200 / 4200 / 4100

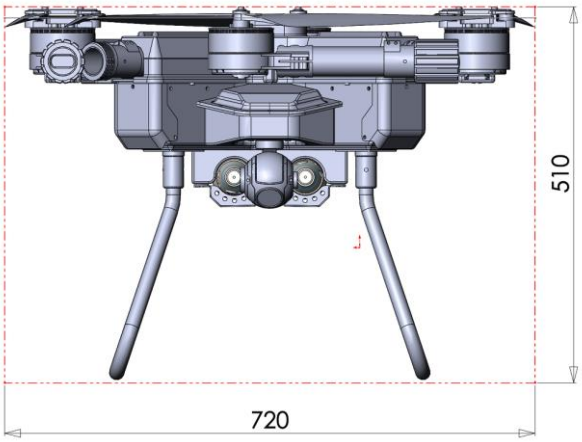
KSDS

UAV UVM-2E-R1 SURVEILLANCE





DIMENSIONS



KSDS

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KMDS

UAV UVM-2E-R2
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KMDS (KIS Mortar Drop System)

KMDS is an Ammunition Drop UAV is an Unmanned Aerial Vehicle solution that can carry 2 x 60mm Mortars or 1 x 82m Mortar Ammunitions adapted to a SAFE CARRY mechanism that releases the safety lock system automatically. **KMDS** can carry out the planned task and drop the effective loads on a locked target on a given coordinate.

KMDS offers an algorithm that informs the user about the effective area of explosion and is capable of being armed with differing ammunition such as, Impact [IMP], Delayed [DLY], Near Surface Burst [NSB] Proximity [PRX] types of mor- tar shells and these ammunitions can be identified in the system based on their placed slot. The built-şn anti-jammer system defends **KMDS** against electronic warfare.

KMDS

UAV UVM-2E-R2
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GENERAL SPECIFICATIONS

Aerial Vehicle Technical Specifications

Number of Rotors	4
Propeller Specifications	32x11
Ammunition Capacity	Attack : 2 x 60mm
Data and Video Link	30 km
Autopilot	YES
Flight Time	2 pcs 60mm / 1 pcs 82 mm
Cruise Speed	35 km/h
Max Speed	60 km/h
Flight Range	More than 15 km
Length (With Propeller)	2012 mm
Length (Without Propeller)	1200 mm
Rotor Diameter	812 mm
Wind Resistance	13 m/s
Battery	4 x 22AH (LiPo Battery)
Charger	YES
Max. Altitude	6000 m MSL
Max Payload	10 kg with 4x 22 AH Battery
MTOW	32 kg
Max. Climb rate	3 m/s
Max. Descent rate	3 m/s
Max wind resistence	13 m/s
Operational range	>15 km
Practical ceiling	1000 m
Endurance	30 min with 2kg payload
Onboard power supply	48 V - 24 V - 12 V - 5 V
Temperature range	-40°, + 60 ° C
Base takeoff and landing area	3m x 3m
Take off and landing	Fully Autonomous
Portable GCS	YES
Dustproof and waterproof	YES
Rugged Case	YES

Camera Systems

Daytime Camera with Zoom	10X Optic Zoom 3x Digital Zoom 30x Hybrid Zoom0X Zoom Day time Camera
Recording	2K

Ground Station

Rugged Control Laptop	YES
Tracker Antenna 360	YES
Rugged Case	YES

GPS

Antijamming System	Tualaj ANTY

Mission Control & AUTO Pilot Software Specifications

Automatic Take Off & Landing	YES
Automatic Return To Base	YES
Blind Flight Control without GPS	YES
Fleet Flight Feature	NO
Video Log & Transmit At Line Of Sight	YES
Interactive Mission & Flight Planner	YES

Camera Option

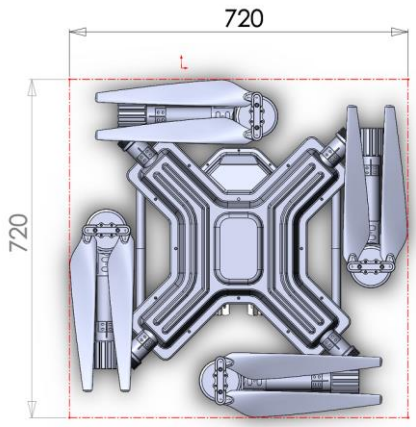
None

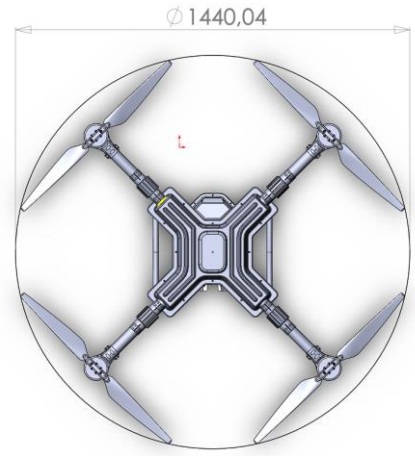
Antijamming GPS Options

Tualaj 8200 / 4200 / 4100

KMDS

UAV UVM-2E-R2 ASSAULT





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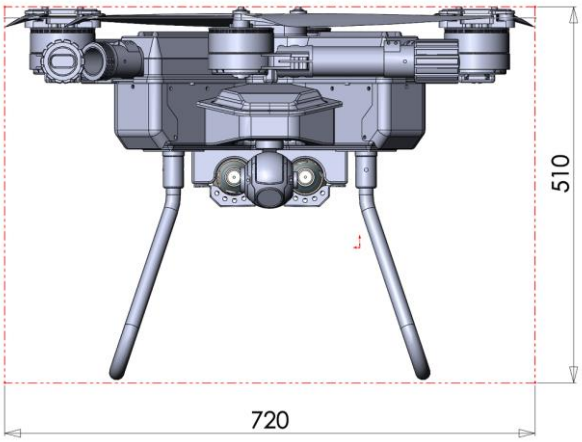

KMDS

UAV UVM-2E-R2
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Portable Ground Control Station

***PGCS** is designed to control upto 5 units of KIS unmanned aerial vehicles*

The system can be used as a mobile platform as well as a fixed control station. Instant sensor data flow of aircraft, commands for directing camera and weapon systems are also controlled and analyzed on Realtime.

General Features

- Ruggedized – IP Standards
- 5 Hours Working Time (opt)
- Offline Map Supported
- Touch Screen (opt)
- General UAV Control
- Camera Gimbal Control Supported
- Damage Resistance
- 30 km Video Receive
- 30 km Data Receive
- 30 km Data Transmit
- 30 km Control
- Encrypted

PGCS

PORTABLE GROUND CONTROL SYSTEM

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HIGHLIGHTS

- FULL IN-HOUSE CUSTOMIZABLE DESIGN
- FULL IN-HOUSE SOFTWARE AND FIRMWARE
- EXTENDED OPERATING TIME
- FLEET FLIGHT CONTROL
- NON-GPS AUTONOMOUS FLIGHT AND RETURN HOME
- ANTI-GPS JAMMING / GPS SPOOFING PROTECTION

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