

GEPTM

Unmanned Technologies

Since 2010, we have designed and constructed over 20 different platforms and subsystems which are being used in various specialized applications in Greece and abroad.

We have the ability to design and construct any variety of Drone having the know how and access to technologies not widely available to the general public.

DRONES DEMONSTRATIONS



- Civil Protection Demo, Municipality of Thessaloniki - [Demo of Drone](#)
- Food and medicine delivery to vulnerable groups - [Antenna- Chatzinikolaou](#)
- Video of food supplies delivery in Toumba- Thessaloniki [Aerial shots from 2nd Drone - ET3](#)

GEP8 - ATTACK DRONE: MULTIPLE POINTS OF SUPERIORITY

- **Robotic system of Unlimited Range**, beyond the line of site (LOS). Ability for the Drone operator to be in Athens (at the Army General Staff) and the Drone operating in Evros.
- Pioneering **small size** in relation to it's Useful Cargo: Dimensions 60x620x350 mm - Weight 7,9Kgr carrying a 3,5kgr payload.
- **Transportation of supplies** weighing 4Kgr to remote units at a distance of 16Km and delivery via a winch, with the Drone hovering above the delivery point.
- **Ability to bomb exact locations** with the use of multiple bombs weighing from 0.5Kgr up to 4 Kgr.



GEP8 - ATTACK DRONE - MULTIPLE POINTS OF SUPERIORITY



- Quick on Drone adaptation & mounting and/or release mechanisms for any kind of sensors or other desired parts.
- Mounting of armaments of choice
- Mounting of loudspeaker up to 110db for the broadcasting warning messages.
- Ability to intercept, shoot own and/or capture enemy Drones.
- Ability to transport smaller models of GEP Drones and release them while in flight so that they undertake their own separate missions.

GEP8 - ATTACK DRONE - MULTIPLE POINTS OF SUPERIORITY



- Protection from existing electronic anti-drone systems + ability of continuous upgrade as new technologies arise.
- High survivability in hostile environments : Ability to complete the mission with 2 rotors out of order.
- Military Grade cameras, made in Israel.
- Custom design and construction of small bomb shells: The bomb casing are designed and constructed by GEP via 3D software and printers, and are delivered empty to the pyro technicians for charging with explosives.

GEP1-intruder

- ▶ Uses “ducted jet”, propulsion technology providing complete protection to the propellers.
- ▶ 3D printed using space-age materials & custom design, rendering GEP-1 unbreakable.
- ▶ Height : 6cm - Width: 17cm
- ▶ Weight : 450gr
- ▶ Space age equipment with Infrared flashlights weighing 2gr and Lidar sensors.
- ▶ Operational in full darkness.



**Check and clearance of interior of buildings.
Fully operational in areas (dense vegetation, forests, ruins tight spaces) impossible for other drones to operate.
Invisible operation in complete darkness.
Guard/Spy mode with an 85 minutes duration.
Can carry & release a 250gr explosive or other payload.**

ELIOS 2

- ▶ Height 41cm.
- ▶ Width: 41cm.
- ▶ ELIOS2 and in order to operate in the dark it must carry on it two flashlights weighing 280gr
- ▶ Made in Switzerland



GEP2 - KAMIKAZE



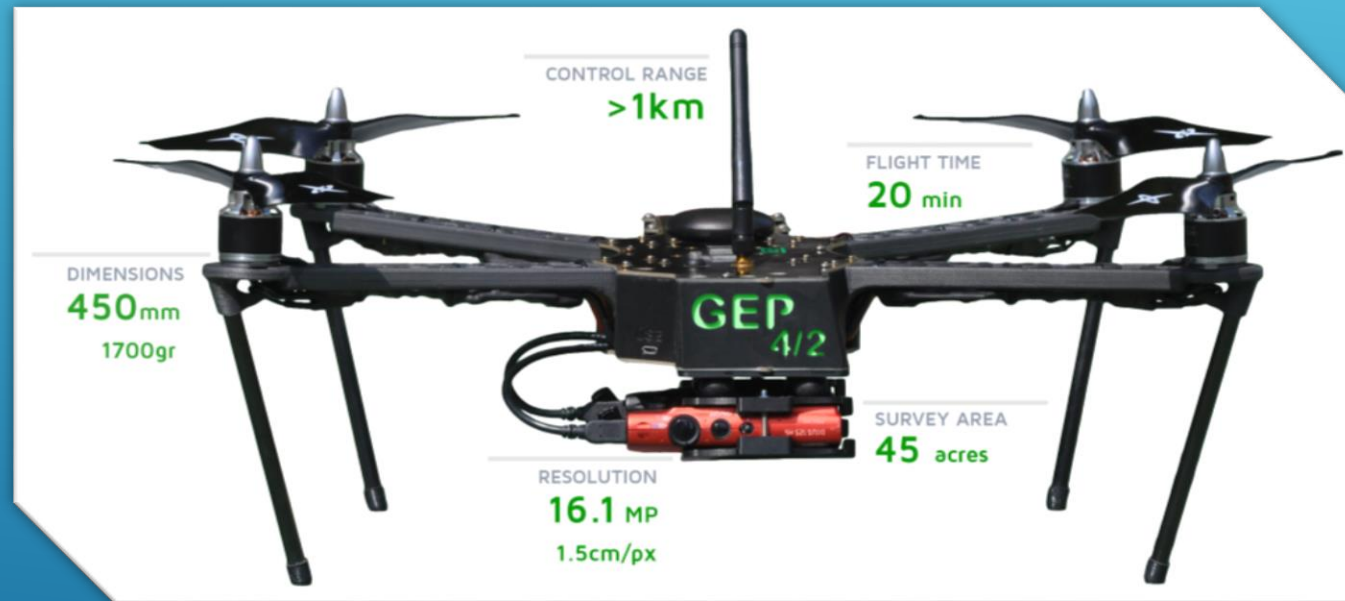
Competition Comparison (Turkish)

	GEP2	ALPAGU (fixed Wing)	KARGU 2 (quadcopter)
Weight	0,65 Kgr	3,7 kgr	7,5 Kgr
Dimensions in cm	20 x 14 x 7	125 x 65 x 23	60 x 60 x 43
Range	6 Km	6 Km	5 Km
Maximum Speed – Horizontal	201 Km/h	95 Km/h	70 Km/h
Mission Speed	140Km/h	60Km/h	45Km/h
Vertical Ascent Speed	25m/sec	7m/sec	4m/sec
Maneuvering Ability	18G-Continuous	6G - Continuous	4G – Continuous
Acceleration 0-100Km/h	1,4 seconds	-----	-----
Explosive Payload	0,4 Kgr	0,6 Kgr	1,1 Kgr
Flight with winds up to	11 Beaufort	6 Beaufort	5 Beaufort
Drone Speed	104Km/h	56Km/h	35Km/h
Number of Drones Able to Transport by one (1) person	Eight (8) Drones	Two(2) Drones	One(1) Drone

- GEP2 is today the most agile and superfast UAV platform in the market.
- Ideal for KAMIKAZE drone applications : Today, there are no counter measures or antidrone devices that could stop this drone from hitting it's target, either alone either in formation.
- Minimal dimensions, one person could carry & operate Eight (8) Drones.

GEP4 SURVEY DRONE

AERIAL VISUAL INSPECTION AND SPECTRAL MONITORING AND ANALYSIS OF INSTALLATIONS – FORESTS - CROPS AND SOILS



The first Greek designed and constructed Drone officially certified from the Hellenic Civil Aviation Authority (CAA) and EASA



- ▶ Use of - in House converted Multispectral cameras – for 2d & 3d high resolution mapping for uses in various sectors, such as :
 - ▶ **Civil protection planning** against natural disasters & damage evaluation after the disaster
 - ▶ **Daily inspections of infrastructure** : Pipelines, communication networks Installations, Highway inspections and generally public works planning and inspections
 - ▶ **Daily multispectral (NIR) inspections of crops vigor**
 - ▶ **Detection of various problems and plant diseases** at a very early stage, weeks before those are detected by the Agronomist or the grower himself.
 - ▶ **Forest health control & forest fire protection**
 - ▶ **City planning** & illegal buildings construction control through the creation of highly detailed maps/Orthomosaics.
 - ▶ **Archeological research**, detection of underground constructions or ruins through the near infrared emission of the above existing plants.
 - ▶ **Military** : Detection of mine fields – based on the above principle.

Fully Robotic drone, use w/out the need of an operator.

Five (5) minutes training in order to operate the Drone.

Use of 15 to 21 sats for extreme accuracy, 2x2 meter needed space in order to operate and complete missions : Operates in tight spaces such as between buildings and inside forests.

More than 4.500 faultless missions completed with zero (0) accidents or drone fall.

Daily used by the American Farm School and the Demokritus Forestry university.

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