DETECT & DEFEND DRONES

We defend your airspace

WE DEFEND YOUR AIRSPACE

IDENTIFY & CLASSIFY
Software-centric solution recognizes and classifies malicious drones

LOCATE DRONES & PILOTS
Localization technology pinpoints drones and their pilots

NEUTRALIZE THREATS
Deploys countermeasures to protect your organization or neutralize the drone

The rapid proliferation of micro/mini UAVs is a growing potential threat to national and commercial security.

Easy to make, cheap to buy, simple to fly, and hard to detect, commercially available drones are one of the most quickly evolving technological threats to military and civilian interests.

Presently Commercial drones has raised a privacy concerns among the people since most of the drones flies equipped with high quality cameras which can invade people privacy, taking photo of people and personal property.

Also drones can be used to smuggle drugs, crash into buildings, act as peeping Toms, drop bombs, shoot guns, and gather personal data on anyone whom drone pilot want to harm.

Hence a Jammer to block drones remote control signal to protect our privacy and personal space is required. Therefore, Tangreat UAV Detection System provides users with a rapidly deployable, scalable, and modular system to detect, locate and identify potential threats using RF Sensors Analysis and monitoring system.

Tangreat Drone Detection System is developed, individually produced and calibrated and experiences the real field operations test. We guarantees highest standards.

TG-SW-360 UAV provides protection against drones threatening safety, security and privacy. Our state of the art detection and countermeasure products aid your security force against the significant and growing threats that drone technology makes possible.

TG-SW-360 UAV detection system includes UAV Monitoring Computer, 360 degree mobile sector antennae and Detection Equipment.

It can make a real time measurement of RF emissions from drones, direction finding, Spectrum identification, multiple targets tracking, trace record replay, location of drones operators as well as drones fallen to the ground.

It can be widely applied in big events venues, commercial Venues ,military bases, civil, airports, government compounds, military and critical infrastructure, troops, prisons and executive protection, border control, nuclear plants as well as personal residence and so on.
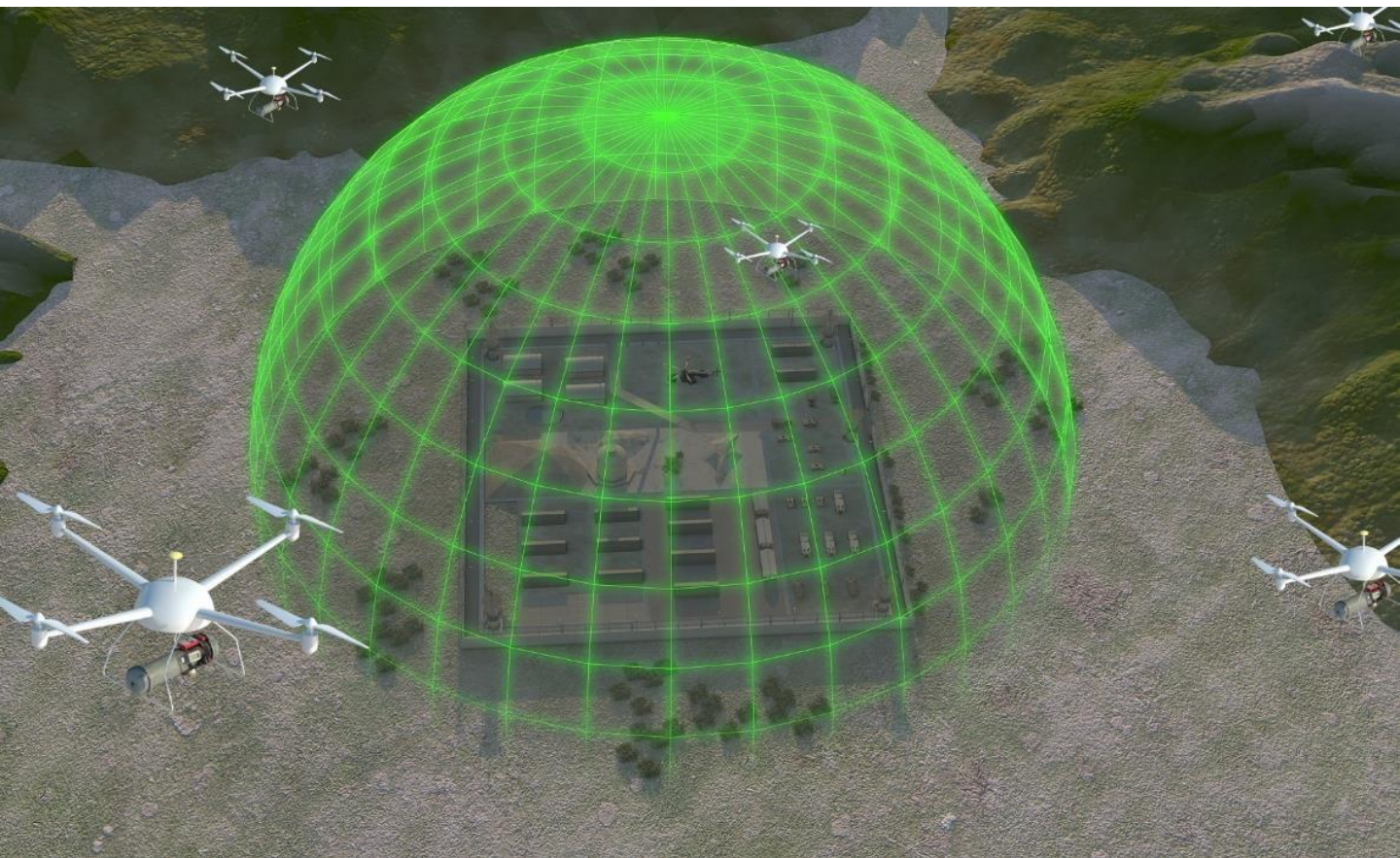
System Deployment

Single System Deployment .

Portable detection and monitoring system.

It is mainly used in a small areas or mobile UAV detection scenarios(Vehicle mounting or Roof of the building)

1. Identification of drones
2. Direction Finding of the drone.
3. General range and angle of the drone.

Multiple Systems Network Deployment .

It is mainly used in a big areas UAV detection scenarios.

Three sets of systems can locate the drone and remote controller.
Accurate detection.

It is with a triangle crossing and locate where the drone and remote controller it is. Including the height of the drone and position of remote controller.

1. Identification of drones
2. Location.
3. More accuracy

Technical Specification

Frequency Range: 300-6000Mhz
RF Detection Signals: Drone signals, remote control signals; WIFI IEEEE802.11a,b,n,g
Detection Radius: Not less than 3Km (transmit power:0.1W)
Detection Diameter: Not less than 6Km (transmit power:0.1W）
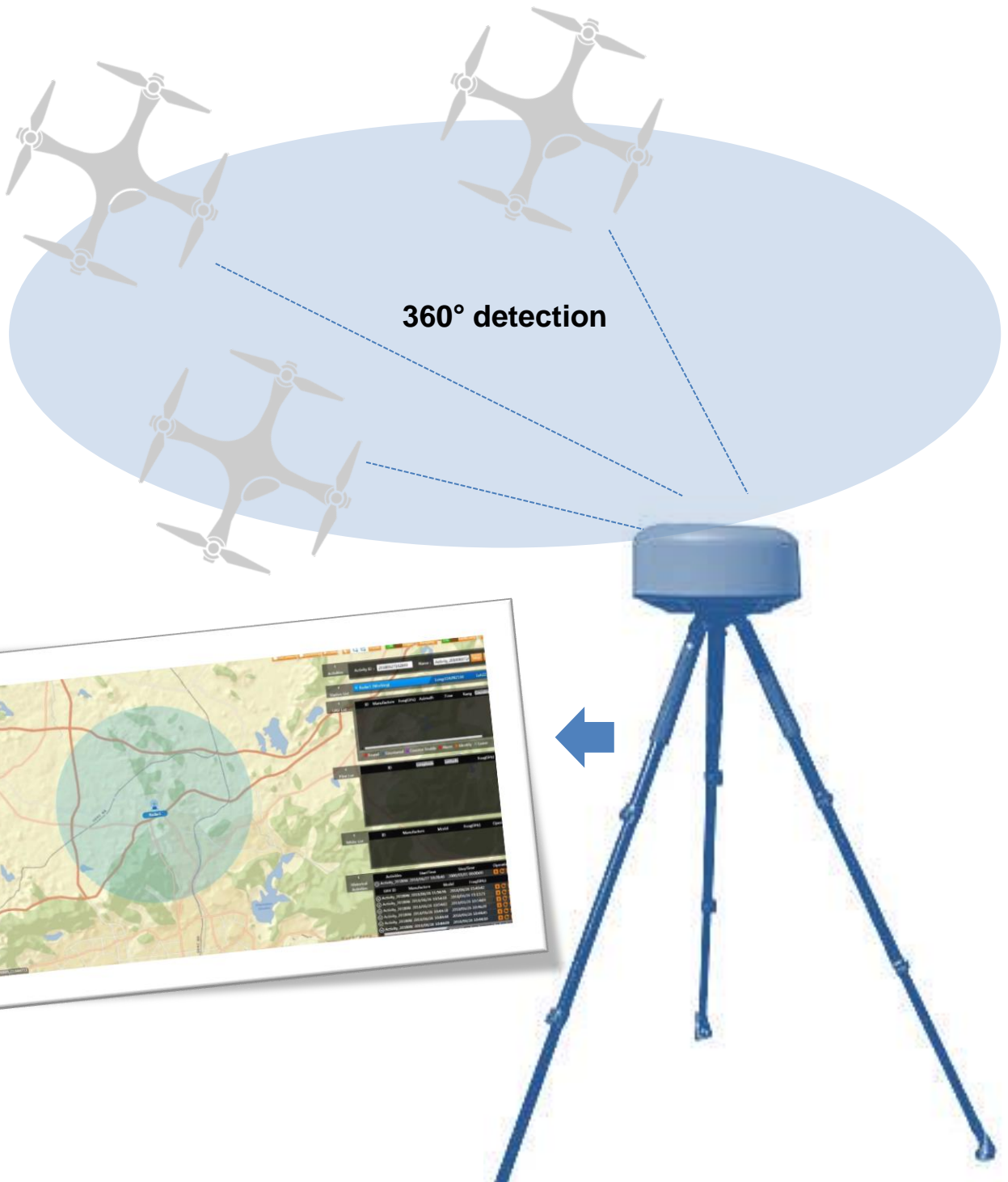Antenna: 360 degree detection.
   With 10 ports of sector antennae inside
   Each sector antennae is 36 degree, totally in 360 degree.
Direction Finding Accuracy: More than 2 rms
      Detection angle will be +/-3 degree
Simultaneous Drone detection Quantity: 40 Units

360° detection

Portable Low Power Uni-Directional Jammer Solution

Uni-directional jammer (for known drones widespread in the market) integrated in the whole system and automatically activated.

Three (3) combo set antenna for:

- 900 Mhz
- 1.5 Ghz
- 2.4Ghz
- 5.8 Ghz

1 Km jamming effective range

Advantages of System

- Extremely high coverage (usually up to 6km,even further, still determined by the environment).

- Real time drones detection. Also works at night, fog and bad weather. - Works also against drones "disguised" between buildings, industrial plants, trees. - High tracking accuracy. - Capability to track the operator who controls the drones. - Fully automatic system is ready for use within a few minutes (mobile system) and easy to install in any places. - 360 degree coverage detection with direction and altitude.

- Real-time remote control via Ethernet / LAN.

- Allows a 24/7 monitoring and recording without any gaps

- Unlimited in size & numbers of receivers, arbitrarily scalable and expandable.
- Visualized Drone Control areas setting to ensure the operator to draw the drones identification zones and drone protection zones.

- Software identifies the drone with the help of so-called 3d trigger.

- Multiple targets finding, direction finding, location and flying path drawing.

Through the spectrum analyzing and direction finding to detect the drones, calculate the azimuth angle, cross position calculation, and then draw the coordinates of the drones in real time and flying path on the map.

- Intelligent identify the drone manufacturer brand, model number and frequency of the drones.

By analyzing RF spectrum characteristics of potential drones and the preset drones spectrum to identify the drones manufacturer, model number and frequency hopping. - Intelligent analyzing i.e. automatic alarm by sound and light, automatically generate the summary report.