

HARRIER True3D™

Drone DeTecton Radar (DDR)

The rapid increase in the availability and sophistication of drones represents a significant challenge to Law Enforcement and Security Managers nationwide. As drone capabilities progress faster than the ability to assess and mitigate the threat posed by unauthorized small UAS, law enforcement officials understand that they must find a way to address the threat with technology that has the ability to keep pace with the evolution of this technology. Radar is a perfect gap-filler while other detection technologies evolve to keep pace with changes in drone data links, communication protocols and signals encryption.



Model: HARRIER 7360 True3D

Law Enforcement & Command Advantages

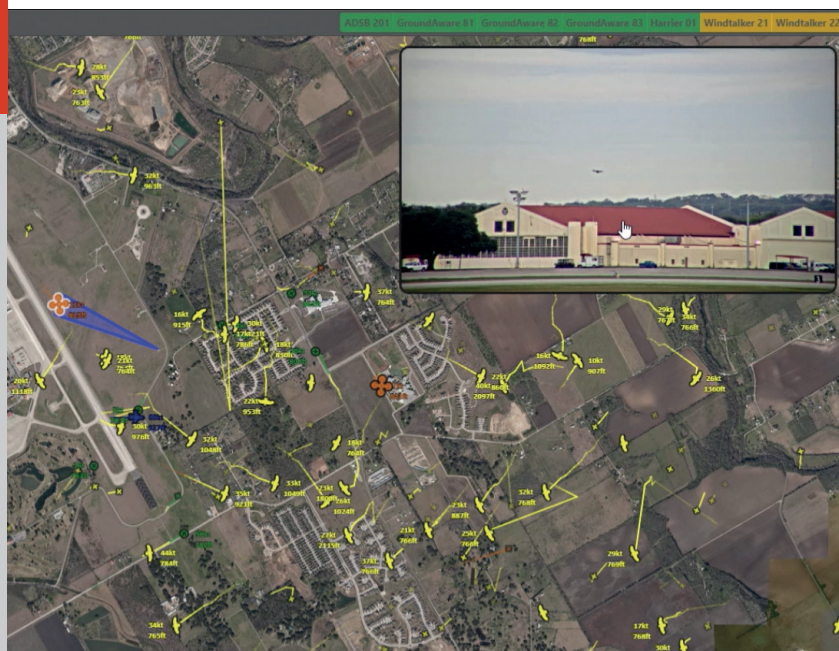
- Provides complete area picture to incident command
- Easily integrated into existing Command & Control displays
- Increased airspace security & awareness for Facilities Security Manager
- Special Operations team enhancement
- Immediate Deployment by team and single LEO
- Provides immediate access to critical information about targeted drone
- Provides 360° Air Domain Awareness picture
- DeTecton of golf ball sized objects to large vehicles and aircraft

DeTect's radar is also perfectly suited for providing airspace management and air domain awareness to secure facilities, such as secure municipal and federal facilities, jails, prisons, temporarily cordoned-off areas, and forensic investigation sites.



Engineered and manufactured in the USA, DeTect's True3D drone detection radar is a proven, dependable, 24/7/365 radar using no moving parts, thereby providing a minimum 50,000 hour MTBF rate, requiring little to no maintenance. Its hardware and software are designed specifically for detection of all small and fast moving targets.

Its software is designed to filter out natural, and environmental detections so there is no interference experienced by blowing trash, leaves, wind, rain, snow, insects or birds.



Offices in: Panama City, Florida • Grand Forks, North Dakota • San Diego, California
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Beyond Visual Line of Sight (BVLOS)

Unlike traditional 3D & quasi-3D radars that scan only one sector at a time and leads to under sampling, fewer tracks & low accuracy altitude estimates, DeTect's dynamic multi-beam True3D radar scans & updates target data across the entire 3D volume continually, providing precise (x-y-z) data and no target or track error.



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TECHNICAL SPECIFICATIONS

Architecture: Simultaneous multiple beams

Processing Type: Pulsed Doppler

Frequency Band: S

Range Resolution: 10m or 20m (adjustable)

Selectable Frequency Bands: 6 calibrated

Instrumented Range: 8km (4.3nm)

DeTetection Ranges:

Medium-sized Drone (DJI Phantom): 2.25km (1.2nm) 360°

Large Aircraft: 7km (3.8nm)

Azimuth FOV: 360°

Elevation FOV: 45°

Software Defined Update Rate: 1-5Hz

Minimum Detectable Velocity: 0.25 - 1mph (0.4 - 4.5km)

Weight: 22.7 kg / 100 lbs

Dimensions: 24.5 in x 24.5 in x 20.75 in (62.2 cm x 62.2 cm x 52.7 cm)

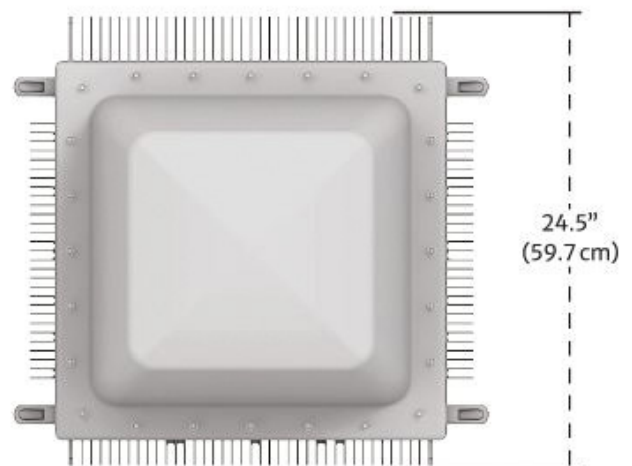
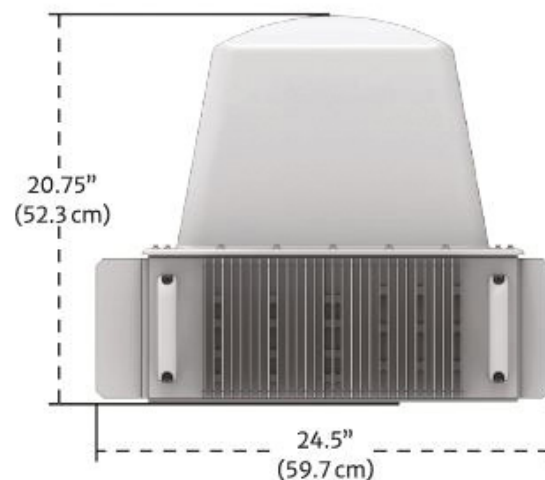
Power Draw: 80W

Operating Temperature: -4°F to +122°F (-20°C to +50°C)

Component Temperature: -40° to +185°F (-40°C to +85°C)

Heating/Cooling: Passive

*Note: Achieving maximum detection ranges requires sufficient mounting height and line of sight. Specifications subject to change as design is completed.



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