FORTEM TECHNOLOGIES

Fortem TrueView™ Family of Radars

The Smallest, Most Powerful Phased Array Radars

Providing eyes in the sky

- Unprecedented low size, weight, power and cost (SWaP-C)
- Fast configuration for 3D view of environment
- Precisely detects and tracks at short and long range
- Effective day and night in harsh weather conditions and through smoke, clouds and fog
- Outperforms other detect-and-classify options with fast refresh to quickly detect objects
- Detects and tracks RF-silent “Dark Drones”
- Integrates with Fortem SkyDome™ software
- Enables SkyDome to create security checkpoints, no-fly zones and BVLOS corridors
- TrueView R20 and R30 are effective ground-to-air and air-to-air
- TrueView R30 is the most cost effective ground-to-air radar available
- TrueView DAN-C is not subject to ITAR Regulations

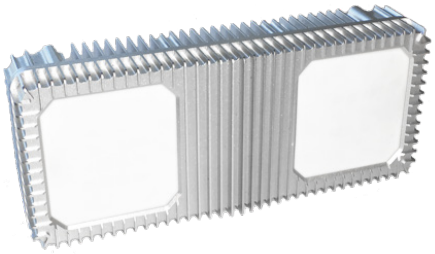
The TrueView family of radars is the most AI-rich, configurable and powerful radar in its class. TrueView is a phased array radar—the gold standard of antenna technology—with a SWaP-C that has never been possible until now. TrueView radar outperforms other technologies and sensors, with the capability of detecting, tracking and classifying objects that would otherwise be obscured by bright lights, darkness, clouds, dust, rain, snow and other challenging conditions. With integrated radar processing and antennas, the TrueView family of radars is proven and reliable, detecting and tracking objects where RF, optic, IR and acoustic fail. The DAN-C radar has all of the necessary changes required to qualify it for non-ITAR status on the Administration Regulations (EAR) Commerce Control List (CCL).

TrueView uses a patent pending technique for analog and digital beam forming resulting in impressive detection speed, wide area coverage and low false detections. This technique, the first one of its kind in the world, offers the clutter and noise rejection benefit of analog beam forming while simultaneously harnessing the speed, power and super resolution of digital beam forming. The power and flexibility of a multiple receiver architecture coupled with the computational power of vector signal processing and comprehensive configurability yields unprecedented accuracy and timely results.

TrueView R20 and TrueView R30
Integrates with ACAS avoidance algorithms for autonomous collision avoidance
Simple and intuitive interface provides the ability to configure radar to meet ground-to-air and air-to-air needs
Mountings for manned or unmanned aircraft, poles, walls and tripods
Ethernet output (JSON) for streaming, detection and tracking data to other systems
APIs for programmatic radar control and cueing of other radars
Integrated high-resolution electronically-steered phase array antennas
Builds tracks very quickly
Integrated inertial navigation system enables clutter rejection in airborne applications

TrueView R20 & DAN-C

Unprecedented low size, weight, power and cost (SWaP-C)



TrueView R20 & DAN-C SWaP
Size: 206mm (8.11”) x 81mm (3.19”) x 56mm (2.19”)
Weight: 811g (1.79bs.)
Power: under 38W peak (18-36V DC)
TrueView R20 & DAN-C Specifications
1.0 m²: 2050m (1.27mi) - people, vehicles and planes
0.1m² 1150m (0.71mi) - medium drones
0.01m² 650m (0.4mi) - small drones
Field of view (azimuth): 120º (configurable digital steering)
Field of view (elevation): 40º (configurable digital steering)
Range resolution: configurable
Elevation accuracy: ±2°
Horizontal accuracy: ±2°
Temperature: -40°C to 55°C (-40°F to 131°F)

TrueView R30

TrueView R30 SWaP
Size: 423 mm (16.7”) x 277 mm (10.9”) x 102 mm (4.0”)
Weight: 6.76kg (14.9lbs.)
Power: 140W (18v-36V DC)
TrueView R30 Specifications
1.0m²: 6000m (3.73mi) - vehicles and planes
0.1m² 3500m (2.17mi) - medium drones and people
0.01m² 2000m (1.24mi) - small drones
Field of view (azimuth): 120º (configurable digital steering)
Field of view (elevation): 120º (configurable digital steering)
Range resolution: configurable
Elevation accuracy: ±2°
Horizontal accuracy: ±2°
Temperature: -40°C to 55°C (-40°F to 131°F)

Contact Fortem Technologies

(385) 375-3233 I info@fortemtech.com I 2015 W. Grove Parkway, Pleasant Grove, UT 84062

FORTEM TECHNOLOGIES

www.fortemtech.com