



# 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 your 3D environment
- Precision detections 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 non-RF emitting “Dark Drones”
- Integrated with Fortem SkyDome™ software
- Enables SkyDome to create security checkpoints, no-fly zones and BVLOS corridors
- The TrueView R20 and R30 are effective ground-to-air and air-to-air
- The TrueView R30 is the most cost effective ground-to-air radar available

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 are proven and reliable. TrueView radars detect and track objects where RF, optic, IR and acoustic fail.

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 configurable yields unprecedented accuracy and timely results.

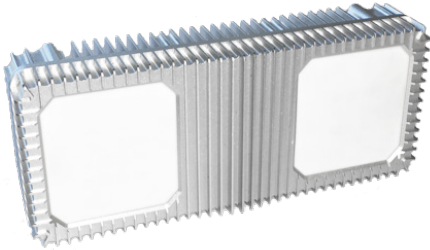


## TrueView R20 and TrueView R30

Integrated with ACAS avoidance algorithms for autonomous collision avoidance
Simple and intuitive interface provides the ability to configure radar to meet your 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 to cue other radars
Integrated high-resolution electronically-steered phase array antennas
Builds tracks very quickly
Integrated inertial navigation system enables clutter rejection with airborne applications

## TrueView R20

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



### TrueView R20 SWAP

Size: 200mm (7.9") x 75mm (2.96") x 38.3mm (1.5")

Weight: 780g (1.719lbs.)

Power: Under 38W peak (18-36V DC)

### TrueView R20 Specifications

1.0 m<sup>2</sup>: 2050m (1.27mi) - people, vehicles and planes

0.1m<sup>2</sup> 1150m (0.71mi) - medium drones

0.01m<sup>2</sup> 650m (0.4mi) - small drones

Field of view (azimuth): 120° (configurable digital steering)

Field of view (elevation): 40° (configurable digital steering)

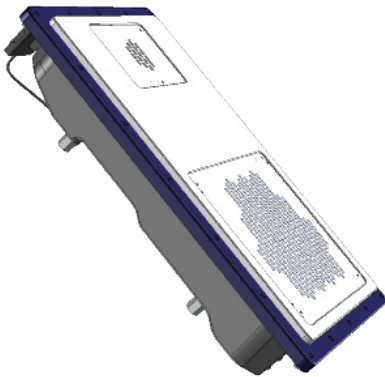
Range resolution: configurable

Elevation accuracy: ±2°

Horizontal accuracy: ±2°

Temperature: -40°C to 55°C (-40°F to 131°F)

## TrueView R30



### TrueView R30 SWAP

Size: 408 mm (16.06") x 275 mm (10.83") x 70 mm (2.76")

Weight: 5.4kg (12lbs.)

Power: < 100W (18v-36V DC)

### TrueView R30 Specifications

1.0m<sup>2</sup>: 6000m (3.73mi) - vehicles and planes

0.1m<sup>2</sup> 3500m (2.17mi) - medium drones and people

0.01m<sup>2</sup> 2000m (1.24mi) - small drones

Field of view (azimuth): 120° (configurable digital steering)

Field of view (elevation): 120° (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 | info@fortemtech.com | 2015 W. Grove Parkway Pleasant Grove, UT 84062



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