



Fortem TrueView™ Family of Radars

The smallest, most powerful phased array radar in its class: The TrueView family of radars uses AI-enabled algorithms to detect, track and classify airborne objects.

Providing eyes in the sky

- Most holistic 3D radar on the market
- Precision detection and track building at long range for early warning
- 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 identify evasive airborne threats
- Unprecedented low size, weight, power and cost (SWAP-C)
- Integral to Fortem SkyDome™ software and enables sophisticated threat assessment capability
- Enables SkyDome to create security checkpoints and no-fly zones in the sky
- The TrueView R20 is effective ground-to-air, air-to-air and air-to-ground
- 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. The gold standard in radar, TrueView is a phased array radar with a SWAP-C that until now has never been possible. 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 radar antennae, the TrueView family of radars are proven, complete and reliable.

TrueView uses a patent-pending technique for analog and digital beams 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 benefits of clutter and noise rejection as part of analog beamforming while simultaneously harnessing the speed, power and super resolution of digital beamforming. The power and flexibility of a multiple receiver architecture coupled with the computational power of vector signal processing yields unprecedented accuracy and timely results.



TrueView R20

Designed for air-to-air and ground-to-air implementations and is the most AI-rich, configurable and powerful radar in its class.

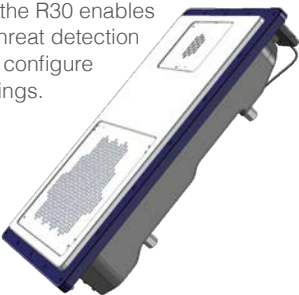


TrueView R20: Enables Beyond Visual Line of Sight Operation	
Can be integrated with avoidance algorithms for quick collision avoidance warnings	
Ground-to-air detect, track and classify, achieves similar ranges with a 40° elevation and 120° azimuth	
Onboard GUI: simple and intuitive interface provides the ability to configure radar to meet your ground-to-air, air-to-air and air-to-ground needs	
R20 Mountings for manned or unmanned aircraft, poles and walls	
Ethernet (JSON) output and serial connections	
TrueView R20 SWAP	TrueView R20 Detect, Track and Classify, FOV/Range
Size: 200 mm (7.9") x 75 mm (2.96") x 38.3 mm (1.5")	Builds tracks in under 3 seconds (configurable)
Weight: 748 g (1.65 lbs.)	1m²: 2050 m - classifies birds, drones and automobiles
Power: Under 38W peak (18-36V DC)	0.1m² 1150 m
	.01m² 650 m
	Eliminates ground clutter
	Range resolution: 0.5 m, configurable
	Elevation accuracy: ±2°
	Horizontal accuracy: ±2°
	Temperature: -40 to +50°C

TrueView R30: Configurable to Meet Many Environments and Conditions	
Effective radar that can precisely detect, track and classify objects at long range	
Onboard GUI: simple and intuitive interface provides early warning object detection and tracking options	
APIs for programmatic radar control	
Ethernet output (JSON) for streaming, detection and tracking data to other systems	
Integrated high-resolution electronically-steered patch antenna array	
Integrated inertial navigation system enables clutter rejection with airborne applications	
TrueView R30 SWAP	TrueView R30 Detect, Track and Classify, FOV/Range
Size: 408 mm (16.06") x 275 mm (10.83") x 70 mm (2.76")	6 km for 1.0 m² RCS
Weight: 5.4kg (12 lbs.)	Field of view (azimuth): 120° (configurable digital steering)
Power: < 100W (18v-36V DC)	Field of view (elevation): 120° (configurable digital steering)
	Builds tracks in under 3 seconds is configurable

TrueView R30

The longest range, largest field-of-view (FOV) radar for its size, the R30 enables robust airspace threat detection with the option to configure multiple alert settings.



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