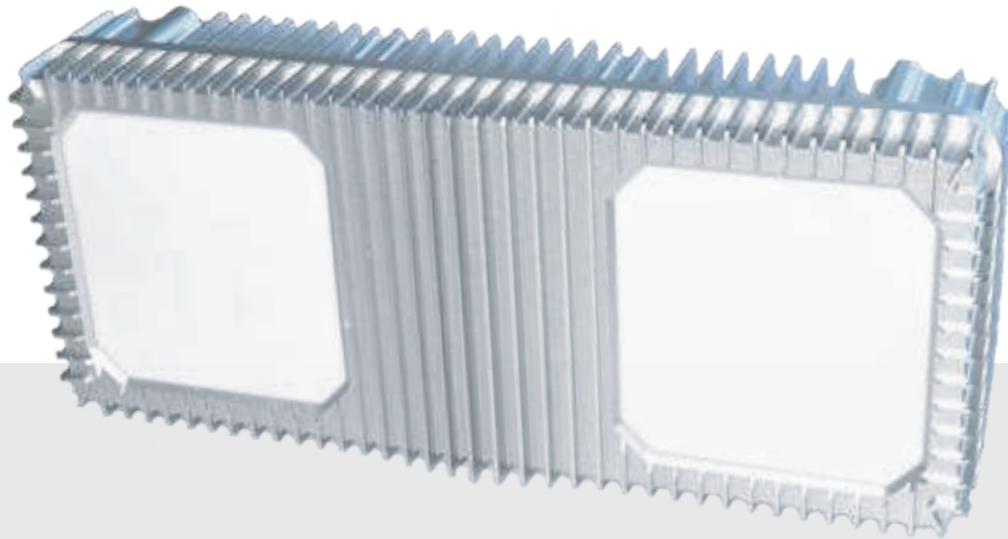


# Fortem TrueView Radar

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Uses AI-enabled algorithms to detect and avoid, beyond visual line of sight (BVLOS)



## TRUEVIEW R20

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Providing eyes in the sky

- Gives the aircraft sufficient time to make a decision and maneuver
- Effective day and night, and in all ground and weather conditions including smoke, clouds, and fog
- Provides precision location of detects at long range for early warning

Designed for unmanned aircraft, the Fortem TrueView R20 radar detects and calculates the location and trajectory of other airborne objects. TrueView uses AI-enabled algorithms which provide real-time intelligent awareness for quick response times.

TrueView R20 enables aircraft to be alerted of potential collision threats and has been integrated with most autopilot guidance systems to provide quick collision avoidance warning.

**Fortem's Trueview brings benefits beyond what other technologies offer, making it capable of detecting objects that would otherwise be obscured by bright lights, darkness, clouds, dust, and other challenging weather conditions.**

# Multi-Mode Radar with Integrated Antennas



## Small Size, Weight, Power, and Cost (SWaP-C)

The TrueView R20 is a proven, complete, and reliable sensor, with integrated radar processing, and radar antennas

- Size: 206 mm x 81 mm x 46.5 mm
- Weight: 681 grams
- Power: Under 39W peak (18-36V DC)

## Fortem TrueView R20

Enabling Beyond Line of Sight (BVLOS) UAS Operation

- Built-in graphical user interface
- Can be mounted on manned or unmanned aircraft
- Ethernet and serial connections



## Key Specifications

- Range: 1500 m for a 1m<sup>2</sup> rcs object
- Range Resolution: 0.5 m, dynamic
- Elevation Accuracy:  $\pm 2^\circ$
- Horizontal Accuracy:  $\pm 2^\circ$
- Temperature: -20° to 40°C



## Detect

Aerial vehicles equipped with the TrueView radar can detect all other aircraft in their field of view and calculate their location

- Field of View (Azimuth): 120°
- Field of View (Elevation): 40°