Fortem TrueView Radar

Uses AI-enabled algorithms to detect and avoid beyond visual line of sight

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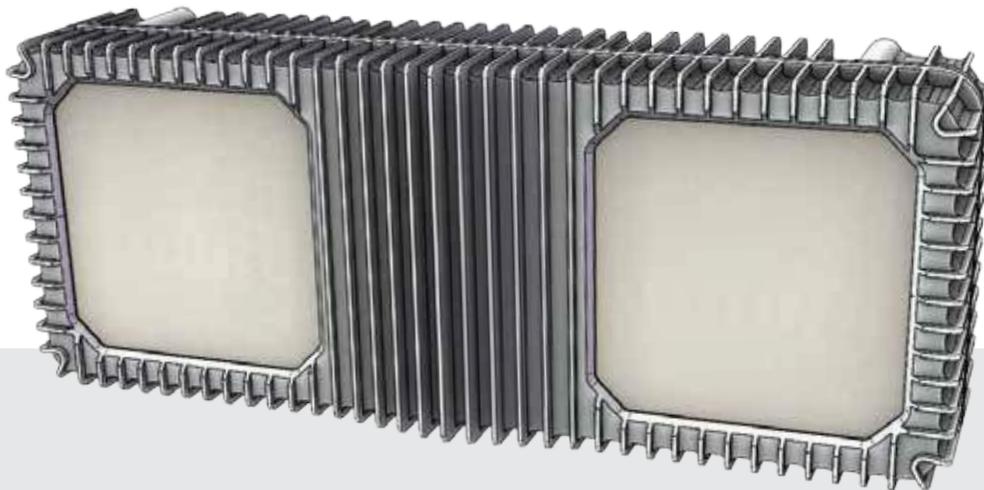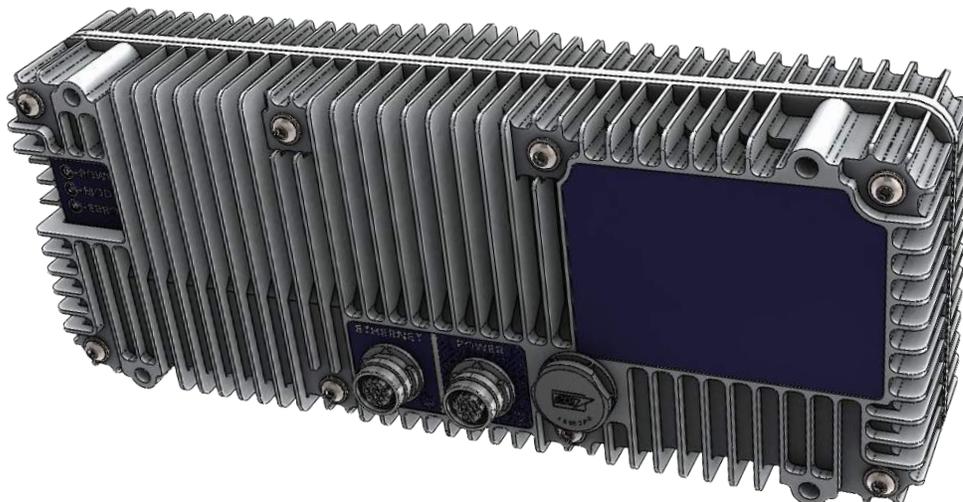

TRUEVIEW R20

Providing Eyes in the Sky

- Gives the aircraft sufficient time to make a decision and maneuver

- Effective day or night, in fog, smog, or clouds

- Provides precision location of detects at long range

Designed for unmanned aircraft, the Fortem TrueView Radar R20 radar with onboard AI algorithms and processing resources detects and calculates the location and trajectory of other airborne objects.

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

Fortem Technologies' TrueView brings benefits beyond other technologies, making it capable of detecting objects that would otherwise be obscured by bright light, darkness, clouds, dust, and other inclement weather conditions.

Fortem TrueView R20

Enabling Beyond Visual Line of Sight (BVLOS) UAS Operation

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

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)

Key Specifications

Range
- Range: 1500 m for a 1m² rcs object
- Range Resolution: 0.5 m, dynamic

Accuracy
- Elevation Accuracy: ±2°
- Horizontal Accuracy: ±2°

Temperature
- 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°

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