

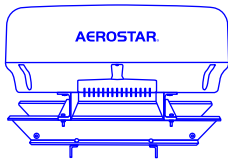
# AUTONOMOUS SITUATIONAL AWARENESS

## CONTESTED WATERS

USV SOLUTIONS
AEROSTAR INTERNATIONAL
SIOUX FALLS, SD



# ADVANCED USV PERCEPTION RADAR



HiPointer  
100/150



HiPointer  
250

## HIPOINTER RADAR

Unmanned Surface Vessels (USVs) require more autonomy and emission control to navigate contested waters without detection or conflict. Aerostar, and our legacy predecessor Vista Research, have led advanced perception and ISR using remote sensing and fully autonomous signal processing and tracking algorithms.

Understanding the challenges USVs face in contested waters led Aerostar to design and develop the HiPointer family of systems, a solid-state amplifier radar with algorithms that can find and track tens of thousands of targets of interest with high confidence.

For more than a decade, Aerostar radar has been operating on U.S. Navy and Marine Corps USVs, successfully providing advanced perception, object avoidance, and real-time intelligence.

## CONFLICT AVOIDANCE

Built specifically for USV missions, Aerostar radar systems allow unmanned vehicles to operate safely and autonomously. And our proven capabilities allow swarms of USVs to operate together in close proximity without colliding.

## INTELLIGENCE, SURVEILLANCE, AND RECONNAISSANCE CAPABILITIES

Advanced algorithms and cognitive radar capabilities allow USVs to detect, track, and maneuver to or away from items of interest. Ideal for unmanned interdiction operations, paired with kinetic strike capabilities, or passive collection assets.

## RADAR EMISSION CONTROL

The power, waveforms, periodicity, and broadcast frequency of HiPointer radars are customizable and configured to limit emissions and reduce the probability of intercept (POI), enough to deconflict and navigate in the waterway.

## COMPACT DESIGN

The HiPointer 100 weighs less than 30 pounds, making it man-portable and easy to integrate.

## USA MANUFACTURED

Aerostar radars are 100% manufactured in the United States. With full control over timelines and the ability to quickly scale production, we can respond rapidly to expedite the production of HiPointer radars from our facility in Sioux Falls, South Dakota.



SCAN TO  
LEARN MORE

TO SEE THESE SOLUTIONS  
IN ACTION, CONTACT  
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