# Massive Marine AI

## About Us

At Massive Marine, we are transforming maritime operations with cutting-edge AI technology and advanced computer vision systems designed to make navigation safer, more efficient, and environmentally friendly. Our intelligent solutions are built for a wide range of vessels, from commercial ships to fishing boats and government fleets. Whether you operate in congested ports, open seas, or challenging environments, Massive Marine's technology will help you navigate the future

## How It Works

Massive Marine's AI-powered solutions are engineered to integrate seamlessly with your vessel's existing systems. Using real-time data from our advanced sensors, cameras, and algorithms, we enable automated situational awareness, precise navigation, and predictive decision-making.

Our systems help your crew make smarter, faster decisions by providing real-time information on nearby vessels, obstacles, and hazards. All of this is designed to minimize human error and enhance operational safety.

## Our Products

### Vision AI Core

Detect And Classify Vessels
Detect Persons In Water
Detect Floating Objects
Collision Avoidance Alarm

### Vision AI Pro

All Vision One Features +
Object Tracking
360° Rotating Camera Unit
Manual Camera Control

### Vision AI Elite

All Vision AI Features +
Future Collision Alarm
Buoy Detection And Classification
Route Tracking Alarm
Situational Awareness System
360° 3 Spectrum Camera Suite

### Vision AI Inside

Fire Warning
Smoke Warning
Face Recognition
Crew Positioning
Stranger Identification and Alert

# Massive Marine AI

# Key Benefits of Applying Massive Marine Solutions

### Increased Safety and Efficiency

Our collision avoidance and early warning systems prevent potential accidents, giving you peace of mind even in the most demanding conditions. With our AI-driven assistance, your vessel can detect, classify, and track maritime objects with unprecedented accuracy.

### Reduced Crew Workload

The Fully Automated Lookout System drastically reduces the need for constant human vigilance, allowing your crew to focus on other critical tasks. Our 360° rotating camera units ensure that no blind spots are left uncovered, even in low visibility environments.

### Optimized Fuel Use and Lower Carbon Emissions

By avoiding unnecessary maneuvers and optimizing routes, our systems help you reduce fuel consumption and minimize environmental impact. Route tracking alarms and fuel-saving collision avoidance maneuvers are designed to keep your vessel on the most efficient path

### All-Weather And Night - Day Capability

No matter the conditions, Massive Marine's systems are built to perform. Equipped with thermal imaging and 3-spectrum cameras, our solutions detect objects and hazards in fog, at night, and even in extreme weather conditions.

# Massive Marine AI

# Product Features

### Detect And Classift Vessels

We offer an AI-based system that continuously observes maritime targets on the bridge of ships, automatically detecting and prioritizing them. This system reduces crew workload and minimizes human error.

### Detect Persons in Water

Using AI-driven cameras and thermal imaging technology, this system is capable of detecting individuals in the water, even in low visibility or nighttime conditions. This critical feature enhances safety during search and rescue missions or in cases of accidental man-overboard incidents, allowing for rapid response to save lives.

### Detect Floating Objects

The system continuously scans the surrounding water for floating debris or obstacles, such as logs, containers, or fishing equipment, which could pose a risk to vessel safety. By identifying these objects early, the system enables the crew to take preventive measures to avoid collisions and ensure smooth cruise.

### Collision Avoidance Alarm

This feature provides real-time alerts to the crew when the system detects potential collisions with other vessels, obstacles, or floating debris. By using AI to assess distance, speed, and trajectory, the alarm helps the crew take timely corrective action, significantly reducing the risk of accidents in high-traffic or complex navigational environments

### Object Tracking

The system tracks multiple moving objects around the vessel, such as ships, buoys, or floating debris. By continuously monitoring their positions and speeds, it allows for better decision-making in dynamic environments, particularly in busy ports or shipping lanes. This feature ensures that vessels maintain safe distances from others during navigation

### 360° Rotating Camera Unit

This camera system provides comprehensive visual coverage around the vessel by rotating in all directions, allowing for continuous monitoring of the surrounding environment. The 360° view ensures no blind spots, enhancing safety and situational awareness, especially in tight or congested areas.

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# Product Features

### Manual Camera Control

In addition to automated features, the system allows manual control of the cameras, giving the crew the ability to focus on specific areas or objects of interest. This feature is particularly useful when navigating complex or unfamiliar waters, or during docking and maneuvering in harbors

### Future Collision Alarm

This advanced alarm predicts potential future collisions by analyzing vessel speed, trajectory, and nearby objects over time. By providing predictive alerts, the system enables the crew to take proactive measures to avoid hazards long before a critical situation arises, further enhancing navigational safety

### Buoy Detection and Classification

The system automatically detects and classifies different types of buoys, helping the crew navigate safely through marked channels and avoid restricted areas. This feature is crucial for adhering to maritime regulations and ensuring safe passage in coastal and harbor regions.

### Situational Awareness System

The system provides real-time data on the vessel's surroundings, integrating information from various sensors, such as cameras, radar, and GPS. This comprehensive awareness enhances decision-making, enabling the crew to respond effectively to changing conditions, traffic, and environmental factors, thus improving overall maritime safety

### 360° 3 Spectrum Camera Suite

This advanced camera system captures images in multiple spectrums, including visible, infrared, and thermal. By providing detailed imaging across different lighting and weather conditions, the system enhances visibility and ensures that the vessel can navigate safely even in challenging environments like fog, night, or extreme weather.

### Route Tracking Alarm

This feature alerts the crew when the vessel deviates from a planned route or when there are obstacles along the route. By continuously monitoring the vessel's position relative to its planned path, the system ensures optimal route adherence, reducing the likelihood of navigation errors and fuel inefficiencies.