

INTELLIGENT  
VOYAGE CONTROL



  
HamiltonJet

JETsense  
Guided by  SEA MACHINES

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# DEPLOYING TECHNOLOGY FOR SAFETY, EASE AND ABILITY

With knowledge honed over three decades selling and supporting electronic control systems, we've set the benchmark in vessel controls across the globe.

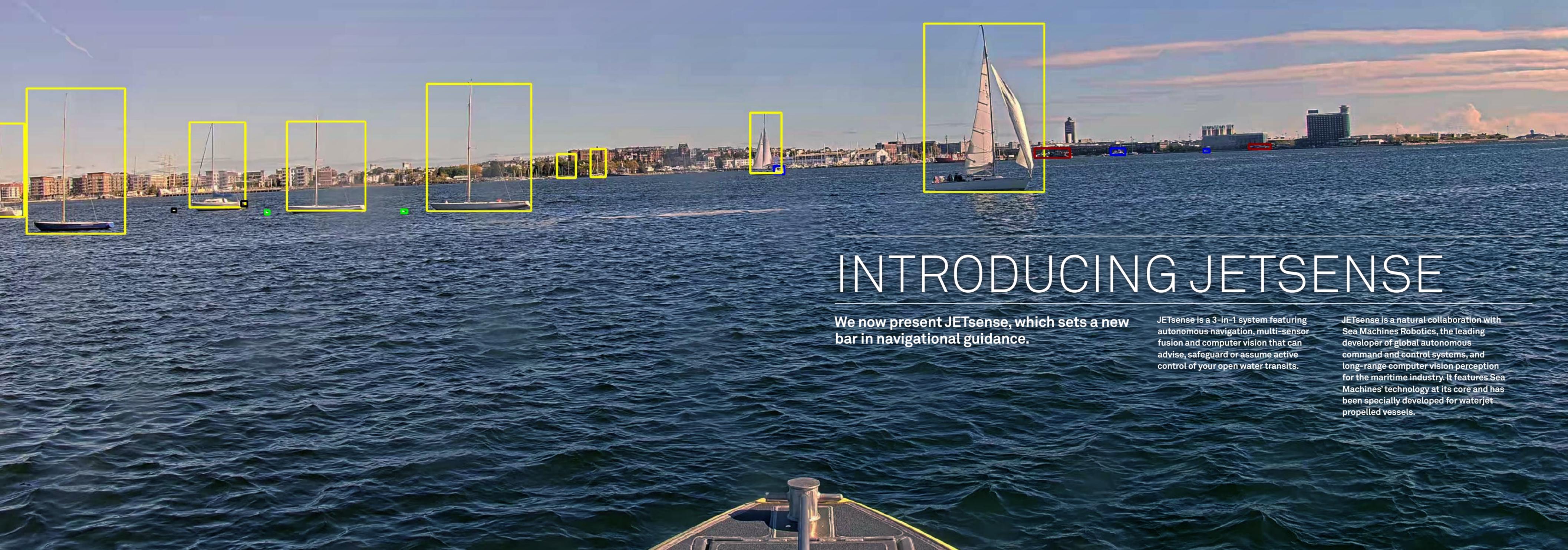
Our AVX platform represents the next generation of electronic controls and is our platform for an increasingly connected future. Thoughtfully designed, robust and reliable, it is redefining the operator experience and delivering mission-critical confidence, even in the toughest conditions.

AVX is also future-ready. It underpins our skipper assistance and autonomous solutions, which are taking vessel performance, control and safety to new levels. These solutions already include JETanchor – quite simply hands-free technology at its best – and JETlink – a clever interface to modern, automated and remote-control systems.

Thoughtful Design. Robust and Reliable. Future Ready.



Mouseboat/3-Axis Controller



# INTRODUCING JETSENSE

**We now present JETsense, which sets a new bar in navigational guidance.**

JETsense is a 3-in-1 system featuring autonomous navigation, multi-sensor fusion and computer vision that can advise, safeguard or assume active control of your open water transits.

JETsense is a natural collaboration with Sea Machines Robotics, the leading developer of global autonomous command and control systems, and long-range computer vision perception for the maritime industry. It features Sea Machines' technology at its core and has been specially developed for waterjet propelled vessels.

# MORE THAN AN AUTOPILOT

JETsense is not just an autopilot system. In fact, it is far more. It utilizes Artificial Intelligence (AI) and advanced autonomy to perceive the domain and maintain precise control of steering and speed during a voyage, re-route as needed to avoid traffic and obstacles, while enabling a new level of streaming data to improve your operations.

## Features:

Built to endure the toughest conditions, the control modules use IP67-rated sealing for waterproofing, with extensive shock and vibration tolerance. Many units are potted with epoxy resin to seal the electronics from the environment entirely.

Swiss-made Limo Connectors are used throughout for robust networking.

- > Navigation assistance or full autonomous control
- > AI-powered situational awareness
- > Obstacle detection and avoidance
- > Routing and fuel efficiency gains from data-driven automation
- > Detailed data-logging and telemetry technology for off-vessel viewing of voyage data, performance data, alarms and diagnostics (access is free during the warranty period and for a subscription after that).

**Discover the only vessel intelligence system that enables modern mariners and boat owners to do more on water with less work.**



# THREE MODES OF OPERATION

Leverage the capability of your crew for high-value tasks and delegate the routine effort to intuitive, reliable autonomous technology.

## Three Modes of Operation:

1. Guide Mode – visual indication and audible alert of potential transit conflicts with vessels or other obstacles as well as low depth. No active control.
2. Guard Mode - visual indication and audible alert of potential conflicts, giving operators signal to act. If no action is taken, the system will assume vessel control to avoid a dangerous situation.
3. Voyage Mode – autonomous control of a planned voyage from start to finish with many built-in behaviors and features specially developed to support a diverse set on-water operation

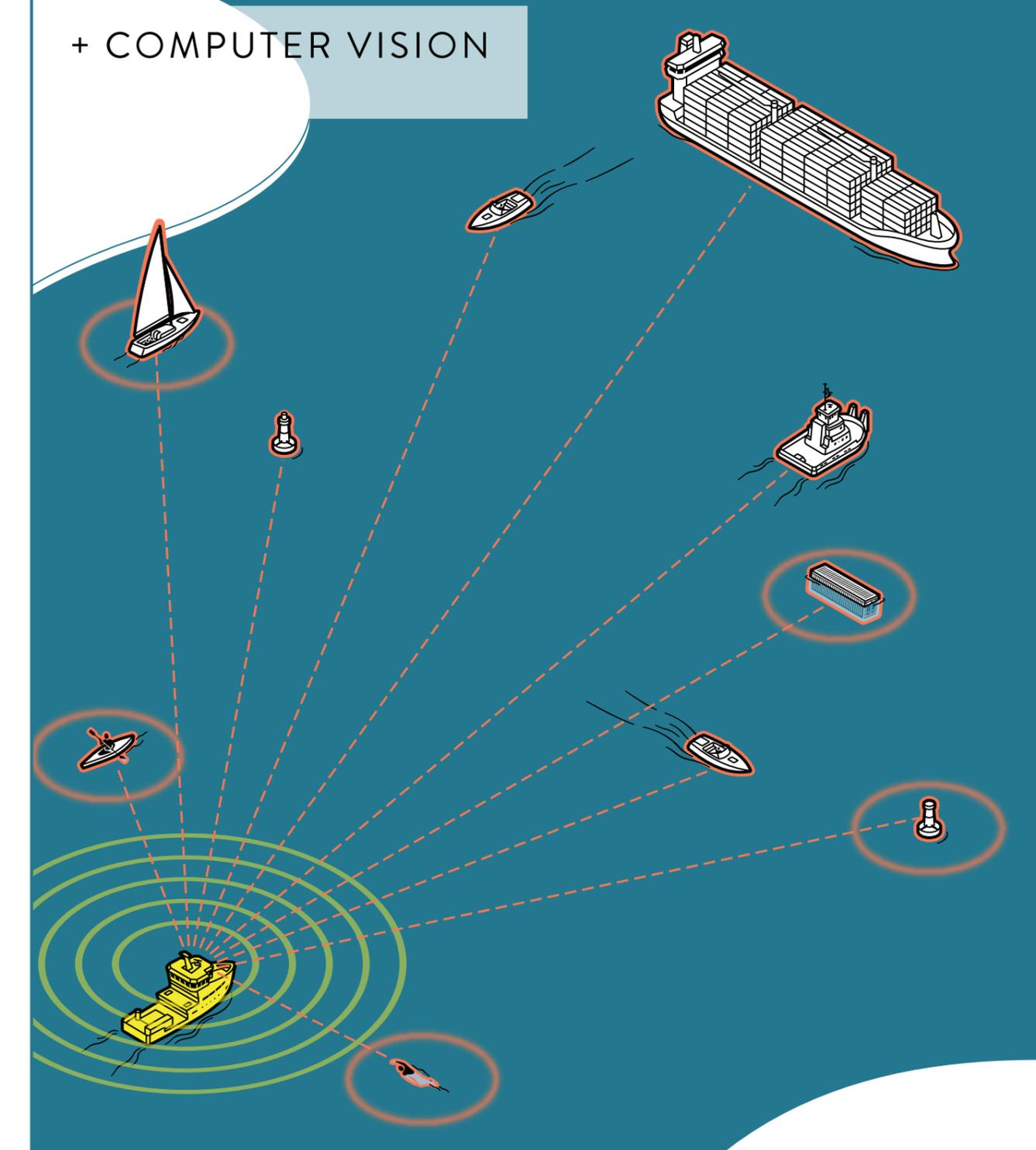


# BETTER SITUATIONAL AWARENESS USING SENSOR FUSION

JETsense is the first product in the market to incorporate Sea Machines' advanced vision package. Developed by a team of mariners and vision technology experts, and vetted by industry users, the system uses optical sensors, proprietary algorithms and machine learning to actively interpret the environment and classify and track on water objects and traffic.

The fusion of computer vision with traditional marine sensors, like radar and AIS, takes situational awareness to an unparalleled level.

It is all onboard, working for operators.



# BENEFITS

## JETsense offers improved:

- > Safety
- > Ease of operations
- > Fuel efficiency

Importantly, JETsense is intuitive and easy to learn and use. It is console-ready and effortlessly incorporates into everyday usage and operations, offering a new way of navigating.



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# WORLD-CLASS PRODUCT SUPPORT

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**We are backed by more than 70 years in business as the pioneer and market leader in waterjets and controls.**

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**Our product support and parts availability is truly class-leading. With a global network of regional offices and over 50 appointed distributors, help is always on hand. No matter where you are, in the unlikely event of a problem, downtime is minimised.**

**Our products all come with a commitment to at least 20 years' support after the end of series production\*.**

\*This applies to all HamiltonJet products which reach series production and can be extended longer if a particular project requires it. Beyond this point, we still endeavour to keep you moving where possible.





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# WORK WITH US

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Over the decades we've become trusted partners to boat builders, naval architects and marine operators around the globe. They tell our story better than we do, so if you'd like some references, please get in touch.

Our network is global. Wherever you are, you'll find experienced distributors supported by our own regional office staff to assist you with your project. We'll walk you through the process and can deliver simple or complex projects.

Our market experience is extensive. It covers offshore, pilot, rescue, fire, military, patrol, windfarm, fast ferry, fishing, aquaculture and recreational applications.

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