

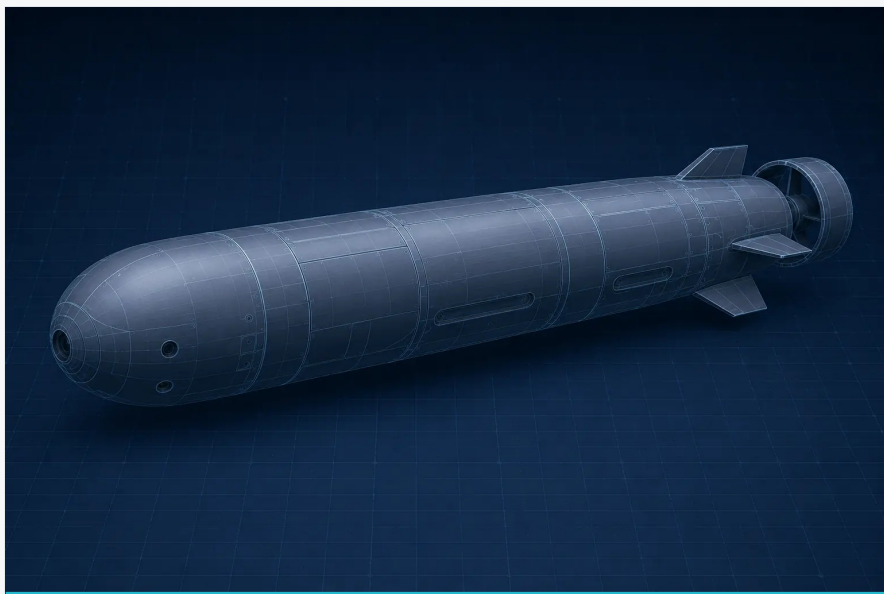
UNCONTROLLED PUBLIC RELEASE

# AndraSound

Persistent Mission Platform

PRODUCT STATUS

Pre-integration design



## PRODUCT OVERVIEW

AndraSound is Andrasta Marine's lead persistent autonomous subsea platform. Its architecture combines conformal hydride hydrogen storage, electrochemical conversion, a managed battery power domain, low-signature electric propulsion and configurable mission interfaces.

## DEVELOPMENT STAGE

Pre-integration design

## KEY FEATURES

- Energy domains sized by duty cycle
- Low moving-part count
- Long-life reusable platform intent
- Defined autonomy and command interfaces

## PROGRAMME STATUS

|                       |                                          |
|-----------------------|------------------------------------------|
| Programme status      | Pre-integration design defined           |
| Development           | Research, design and development ongoing |
| System role           | Persistent survey and maritime awareness |
| Configuration         | Mission-configurable architecture        |
| Verification approach | Independent validation pathway           |
| Development basis     | Model-based iterative engineering        |

UNCONTROLLED PUBLIC RELEASE

# AndraSound | Technical data

## TECHNICAL CHARACTERISTICS

|                     |                                                                     |
|---------------------|---------------------------------------------------------------------|
| Overall length      | Approx. 8.5 m                                                       |
| Mass                | 1,100-3,000 kg configuration range                                  |
| Depth               | 1,000 / 2,500 / 6,500 m configurations                              |
| Endurance target    | >20 days                                                            |
| Energy architecture | Metal-hydride hydrogen-electric hybrid                              |
| Energy storage      | Twin conformal O <sub>2</sub> and metal-hydride H <sub>2</sub> pods |
| Propulsion          | Low-signature direct electric                                       |
| Payload provision   | Modular power, data and thermal interfaces                          |

## SYSTEM INTERFACES

- Payload power, data and thermal services
- Specialist autonomy and command integration
- Portable replenishment pathway
- Configurable sensing and communications

## INTENDED APPLICATIONS

- Environmental and infrastructure survey
- Subsea asset observation
- Maritime awareness and seabed security
- Long-duration sensing and inspection support

## PUBLIC ARCHITECTURE VIEW

| PRIMARY STORAGE                                                | CONVERSION                          | ELECTRICAL DOMAIN                         | OUTPUTS                                              |
|----------------------------------------------------------------|-------------------------------------|-------------------------------------------|------------------------------------------------------|
| Conformal O <sub>2</sub> and metal-hydride H <sub>2</sub> pods | → Electrochemical energy conversion | → Managed hybrid battery and power domain | → Quiet propulsion and configurable mission services |

## TECHNICAL ENGAGEMENT

Independent validation, payload integration, testing, licensing and distribution discussions.

[INFO@ANDRASTAMARINE.COM](mailto:INFO@ANDRASTAMARINE.COM)