## The Ultimate Solution for Autonomous Maritime Surveillance

NiKA is a state-of-the-art autonomous maritime surveillance platform that combines advanced technology with exceptional performance. Equipped with a custom hydrophone assembly, NiKA efficiently gathers precise acoustic data by cycling through the water column before surfacing to relay the collected data. This critical information, along with the platform's real-time position, is then transmitted using the highly reliable Iridium Certus® 100 mid-band satellite service.

The device is capable of operating at depths of up to 1000 meters, making it a versatile and flexible complement to traditional sonobuoys, fixed and towed arrays. NiKA's exceptional operating life of over a year makes it the ideal solution for long-term monitoring, anti-submarine warfare surveillance, and underwater ocean profiling. It provides critical command and control capabilities for naval operations, delivering realtime acoustic detection and satellite localization of submarines.

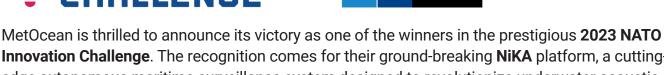
Whether for military or commercial purposes, NiKA offers a cost-effective and indispensable tool for safeguarding against underwater threats.

- Autonomous Anti Submarine Warfare Surveillance
- Acoustic Detection & Satellite Localisation of Submarines
- Mission Critical, Command & Control Subsurface Profiling

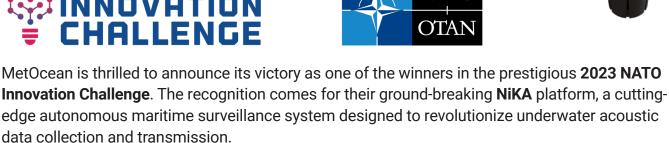


data collection and transmission.





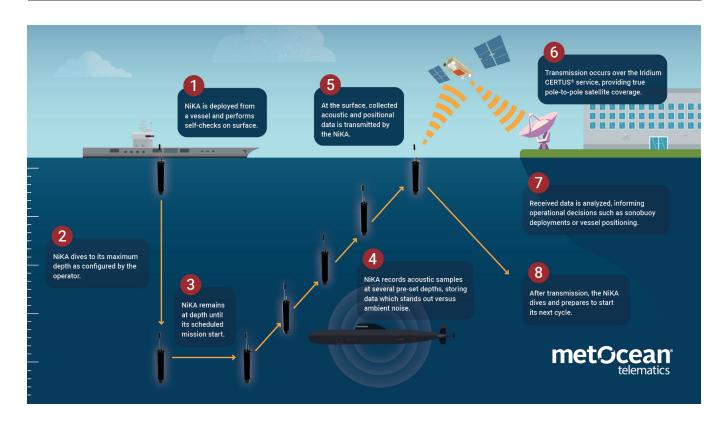
Connected. Everywhere.







OPERATIONAL FEATURES			
<b>Maximum depth:</b> 1000 m (3,281')		Deployment: Handles for slip-rope deployment	
Highly configurable operational life, based on selected acoustic windows and required depths		Activation Method: Removable magnet	
Battery: 60 x Saft LSH20 lithium battery		Automatic scuttling at end of useful life	
3 year shelf life		Encryption: Secret - AES-256	
MECHANICAL			
Hull material: Hard anodized aluminum			
Height: 1475 mm (58.1") with antenna, 890 mm (35.0") without antenna			
<b>Mass:</b> 34 kg (	75 lb)		
Hydraulic buoyancy control		Fully sanitized design, no visible branding	
CONNECTIVITY			
Iridium Certus 100 satellite connectivity – up to 88 Kbps		First Defence product using Iridium 9770 midband transceiver	
SENSORS			
Hydrophone	Custom hydrophone element developed in Nova Scotia	Sampling rate: 5 KHz	
	Frequency band: 10 Hz – 1 KHz	Detection radius: 9.26 km (5 NM)	
Temperature Sensor	Ultra low power depth sensor - Canadian made	Pressure Sensor	Ultra low power depth sensor - Canadian made
	+/- 0.002 °C (0.0036 °F) over -5 °C (23 °F) to 35 °C (95 °F)		2000 m (6,561.7') depth rating
	Resolution 0.00005 °C (0.00009 °F)		+/- 1 m (3.3') accuracy
			Resolution 20 mm (0.79")



## Connected. Everywhere.

