

PACIFIC OCEAN SHELF TRACKING (POST) ARRAY



The current 183 node POST array, designed by Kintama, extends over 2,500 km from the Snake River in Idaho to SE Alaska. This array, using Kintama's Float Collars, has successfully tracked the movements and survival of thousands of tagged fish with high precision.

KINTAMA'S SERVICE GUARANTEE

Kintama has over a decade of expertise in the deployment and use of coastal ocean acoustic telemetry arrays. We provide equipment sales and consulting services in the areas of array design & operation, as well as data analysis. Our designs, equipment, and deployment techniques yield accurate, valid, and highly cost-effective data on marine species tracking and survival unrivalled by any other telemetry system.



SPECIFICATIONS

- Weight in air: 27 kg (59 lbs.)
 - With Receiver: 41 kg (91 lbs.)
- Buoyancy in water: 25.9 kg (57 lbs.)
 - With Receiver: 23.4 kg (51.5 lbs.)
- Colour: Yellow standard, others available.
- Maximum Depth Rating: 500 meters.

KINTAMA RESEARCH SERVICES, LTD.
10-1850 Northfield Road
Nanaimo, B.C. Canada V9S 3B3
Phone: 250-729-2600 Fax: 250-729-2622
Toll free North America: 1-866-546-8262
Email: info@kintama.com

*Creating a Revolution in
Marine Science*

KINTAMA



Trawl-Resistant Float Collars for VEMCO VR3 and VR4 Receivers

**Just Imagine...Your Receivers
Have Disappeared ~
And So Have All Of Your Data!**

**Safeguard Your Investment
With Proven Protection**

FLOAT COLLARS

Kintama's Float Collars* are a complete solution designed to transport, deploy, protect, and optimally orient either VEMCO's VR3 or VR4 Receivers. The systems are designed for rapid assembly in the lab or warehouse and provide permanent protection of the receivers without degrading sensor performance, even accommodating the VR4's underwater cable connection.

Because of their unique design, they can be optimally positioned at any water depth. Constructed exclusively of synthetic materials (save for four SiAl-Bronze screws which can be replaced by synthetic dowels), they are corrosion proof, re-usable, and have a virtually unlimited lifespan.

TRAWLER-RESISTANT DESIGN

Kintama's float collars are more than just a protective package - they also optimally position VEMCO's receivers in the water column. Rated to 500m depth, the 6 mm thick one-piece polyethylene shell resists bio-fouling and snagging. Each unit provides virtually indestructible protection and is designed such that trawl or other fishing gear slides off the outer shell. The protective horns and unique case design gives a nearly unobstructed view to each transducer, and occludes less of the surrounding environment than the Titanium cage on the VR3/4 (which can thus be dispensed with). Because nothing floats above the sensors the sensor's field of view remains unobstructed.

Supplied as two identical half shells which mate together, the Flotation Collar orients the VR3/4 vertically in the water column at any desired depth. If desired, each unit can be provided as a complete system including the tether and anchor.



The synthetic tether used and recommended by Kintama can be made to any length and is non-corroding, positively buoyant in water, and stronger than steel (the same fiber is used for oil rig deep water mooring lines).

The positioning systems can also accommodate most acoustic releases for ease of recovery. The tether can be easily spliced to place an acoustic release in-line between the deployment system and the anchor. Kintama has significant experience using acoustic releases, and we can advise on reliable manufacturers and deployment methodologies.

DURABILITY

No positioning system can completely prevent equipment losses in highly active fishing zones. Our experience is that annual equipment attrition can be maintained at less than 12% in most continental shelf areas, and lower with the cooperation of local fishing fleets. Over 60% of our displaced equipment has been returned to Kintama thanks to the toll-free number on the casing, and all but one of the receivers have been operational, and contained detection data. Most Receivers and Float Collars are then redeployed, leading to annual equipment loss rates of about 5%.

SIMPLICITY OF OPERATION

Vessel time and equipment loss usually dominate other operational costs. Kintama's Float Collars have been designed to lower these deployment costs. In addition, the improved array performance makes for better science.

Set-up takes only 10 minutes back on land. The system then acts as the carrying case to transport the unit to the boat. At sea, the units can be arranged on the back deck & deployed as rapidly as the boat can move from position to position: it doesn't matter if it is in 50m or 500m of water! Our design was focused on cost-effectiveness for large-scale deployments - one person can lift and move the units; and a two man deck crew should be able to deploy 30-40 units in an 8-10 hour period, depending upon the size and lay-out of the deck.

LOST AND FOUND?

We offer our "Return for Reward" service free of charge. The Toll-Free number works across North America, and the email address works world-wide. The label is nearly indestructible as it is fused into the shell. You pay the reward and shipping costs, and we look after the rest! For clients wanting to manage rewards in-house, custom labels can be made.

Fish Tracking Research

POST
PACIFIC OCEAN SHELF TRACKING PROJECT

If Found, Call Toll Free:
1-866-546-8262
info@kintamaresearch.org

KINTAMA

* patent pending