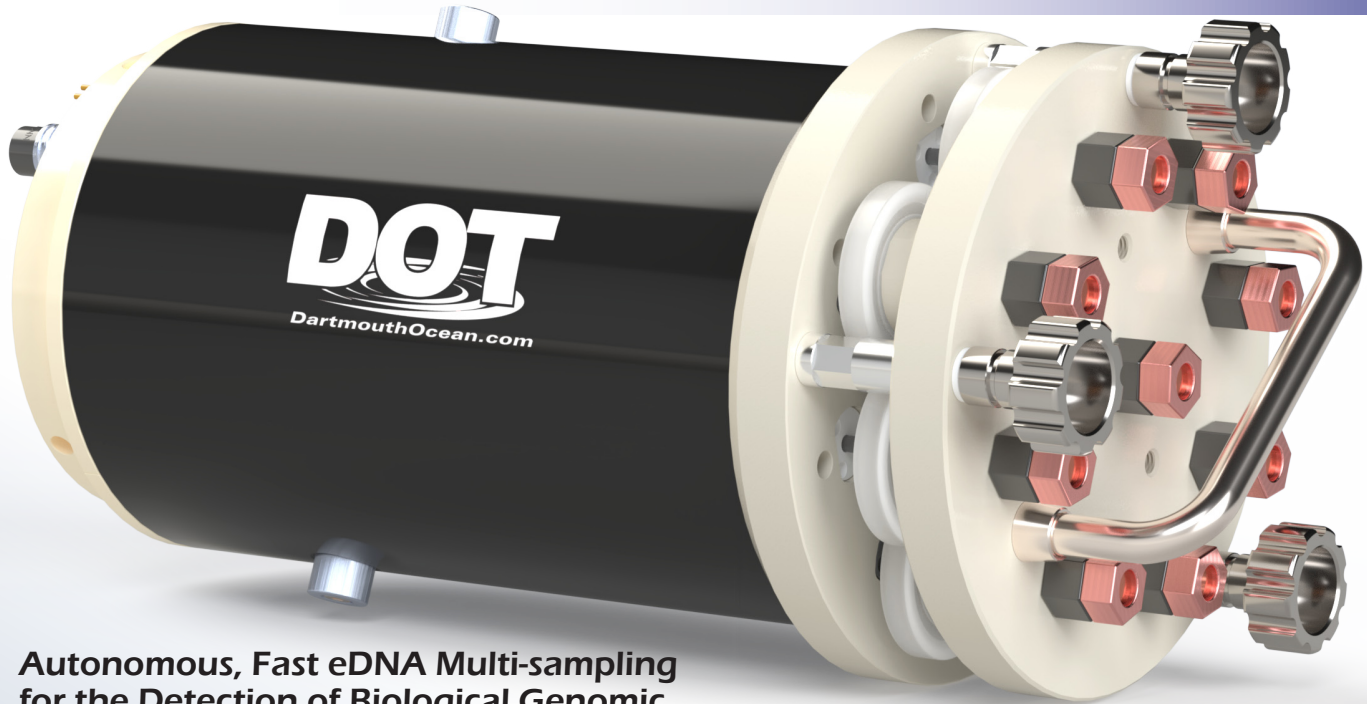




eDNA Rapid Sampler

Swift eDNA Sampling



**Autonomous, Fast eDNA Multi-sampling
for the Detection of Biological Genomic
Signatures in Water**

Features at a Glance:

- Automatic operation according to a pre-configured mission profile via time or depth, or 3rd party sensor RS232 triggering
- Multiple sample collection, storage and transport with integrated sample cassette
- Various filter pore sizes available
- 9-filter cassette with 9 individual channels and pumps for expedited sampling
- Compact design allows for deployment from a variety of vessels and platforms
- Single, dual, or triplicate simultaneous sampling at 600 ml / min maximum sampling rate



eDNA Rapid Sampler - Swift eDNA Sampling

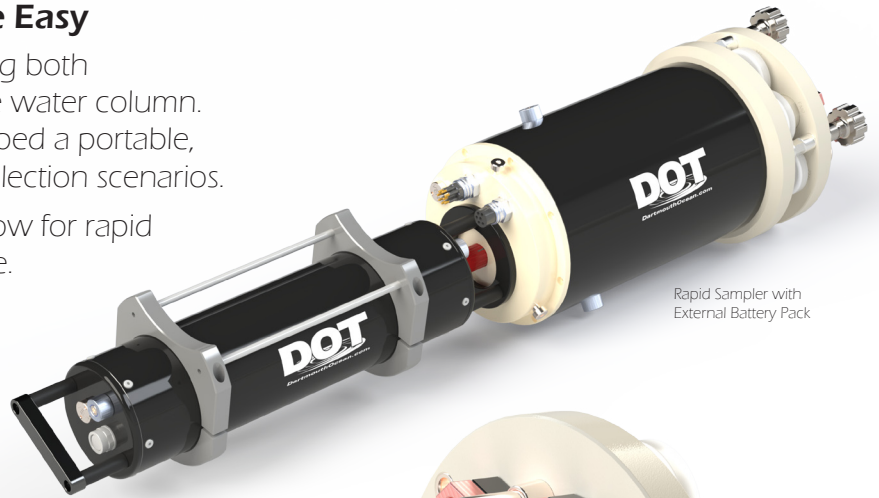
Multi-Sample eDNA Collection Made Easy

eDNA sampling is a valuable tool for studying both prokaryotic and eukaryotic biodiversity in the water column. Dartmouth Ocean Technologies has developed a portable, convenient solution for use in many data collection scenarios.

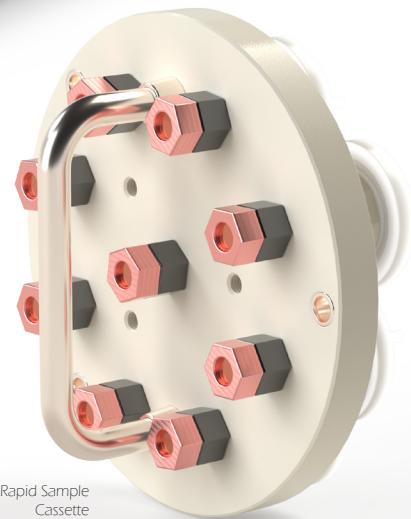
The high-speed pumps in the instrument allow for rapid eDNA sampling where time is of the essence.

Environmental Monitoring

- Biodiversity monitoring
 - Marine Protected Areas (MPAs)
 - Offshore survey
 - Wind farm monitoring
 - Marine Mammal Detection (MMD)
 - Aquaculture
 - Invasive species
- Monitoring the environment for specific organisms of interest
 - Harmful algae (ie. Alexandrium sp.)
 - Parasites or pathogens
 - Indicator species
 - Biodiversity surveys
- DNA extracted from the sampler filters can be further processed with methods such as qPCR and metabarcoding



Rapid Sampler with External Battery Pack



Rapid Sample Cassette

Specifications			
Depth Rating:	20 m	Voltage Input:	8 - 24VDC
Weight: - In Air - In Salt Water	8.1 kg (17.8 lbs) 0.53 kg (1.2 lbs)	Sample Filters: - Size: - Pore Size: - Material:	(defaults) 45mm dia. (55mm sealed disc) 0.4µm to 5.0µm Glass Fiber pre-filter and Polyethersulfone (PES) Membrane
Dimensions: - Diameter - Length	167 mm (6.6 in) Body / 190 mm (7.5 in) Cassette 406 mm (16.0 in)	Intake Screen:	500µm PEEK (default)
		Flow Rate:	<600 mL / min
Data Output:	RS232, RS485, Ethernet	Typ. Sample Volume:	1L, 5L, 10L, 20L (user-definable) in mere minutes
Features:	3 channels/pumps can operate simultaneously Removable rechargeable 635 Wh battery ~3000 litres max per charge	Options:	Filter composition and pore size can be changed to suit different needs External battery (Lithium)

* Products are in development and early-stage trials, and the above specifications may be subject to change without notice



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