#### **Teledyne Oceanscience**

## UnderwayCTD

CTD Profiling from a Moving Vessel

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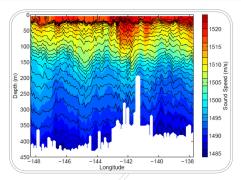
The Teledyne Oceanscience UnderwayCTD provides researchquality CTD profiles while underway for oceanographic research or hydrgraphic surveying applications. The unique freefall CTD probe affords vertical profiles to a maximum depth of over 1000m while underway, while stationary casts to over 1500m are also attainable. The probe is tethered to the ship by up to 2000m of high strength line, with a unique deployment winch and re-spooling mechanism that allows the probe to be recovered and relaunched time after time without ever needing to stop or slow down. Bluetooth communication between the probe and acquisition computer, managed by the Teledyne Oceanscience UCAST software package makes data handling easy and provides a fast turnaround between casts.

#### **Maximize Productivity**

Save hours of valuable ship time by eliminating the need to stop the ship for a conventional CTD station, avoid the use of labor intensive or depth-limited towed CTD profilers and maximize scientific productivity by gathering CTD data during transits.







#### **PRODUCT FEATURES**

- No need to stop the vessel for high quality CTD profiles
- Versatile and simple to use
- Small footprint allows installation on practically any vessel
- Lightweight for easy transportation
- No expendable components

- Several depth range configurations available
- Research grade conductivity and temperature data
- Fast 16Hz sampling rate
- Bluetooth data telemetry



#### A Teledyne Marine Company

# UnderwayCTD CTD Profiling from a Moving Vessel

#### **TECHNICAL SPECIFICATIONS**

Winch	Width41crHeight23crWeight34kgInput Voltage24 VLine Capacity2000ConstructionAlumProbe Recovery Speed0.5-2MountSwiv			1cm (24") 1cm (16") 3cm (9") 4kg (75 lbs.) 4 VDC/ 1.5 kW 000m luminum 1.5-2m/s (1.5-6.6 fps) wivel Base (13 x 13 cm) tainless Steel				
Rewinder	Length Width Height Weight Input Voltage	84cm (33") 18cm (7") 13cm (5") 9.5kg (21 lbs.) 24 VDC						
Power Supply	Length Width Height Input Power Output Power	61cm (20") 41cm (16" 56cm (8") 90-264 VAC (47-63 Hz) 24 VDC/63 A						
CTD Probe	Length (without tail spool) Diameter Weight (in air) Internal Memory Depth Rating Conductivity Cell Conductivity (S/m) Depth (dbar) Temperature (C) Salinity (PSU)	570mm (22") 62mm (2.4") 3.6kg (8 lbs.) 60 casts 2000m Glass flow-through with platinum reference Resolution 0.0005 / Accuracy 0.002-0.005 / Range 0-9 Resolution 0.5 / Accuracy 0.004 / Range 0-2000 Resolution 0.002 / Accuracy 0.004 / Range -5-43 Resolution 0.005 / Accuracy 0.02-0.05 / Range 0-42						
Profiling Capability	Vessel Speed Okts 2kts 4kts 6kts 8kts 10kts FREECAST 1500m 1100m 900m 700m 650m 600m TOW-YO (no line on tail) 1000m 700m 550m 450m 400m 350m							



#### **Teledyne Oceanscience**

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