



TELEDYNE MARINE
Everywhereyoulook™

ACOUSTICS & SUBSEA TRAP LOCATION

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Acoustic Applications Engineer
Teledyne Benthos

November 13, 2019
Ropeless Consortium Meeting



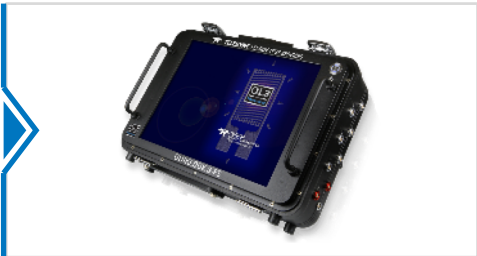
TELEDYNE TECHNOLOGIES

Enabling Technologies for Industrial Growth Markets

Teledyne distinguishes itself by solving the most difficult challenges in markets that require the utmost in performance and reliability

TEST AND MEASUREMENT

Teledyne produces measurement and analysis instrumentation to ensure that valves in nuclear powerplants will operate when called upon.



ENVIRONMENTAL

Teledyne provides specialty instrumentations to detect threats to the quality of our atmosphere, ambient air, drinking water, and food supply.



DEFENSE

Military pilots trust Teledyne’s electronics to obtain speed and altitude data and then precisely time firing pulses to initiate a safe ejection.



MACHINE VISIONS

Teledyne’s scanning machine vision cameras have the highest combination of speed, resolution, and sensitivity in the industry.



MARINE

Teledyne possesses one of the broadest portfolios of marine sensors and systems designed to weather the unforgiving subsea environment.



AEROSPACE

Teledyne controls avionics and software help airlines increase flight safety and operational reliability through more efficient aircraft data and information management.



TELEDYNE MARINE WORLDWIDE



23

Product Brands

15

Global Manufacturing
and Service Centers

+1600

Global Employees

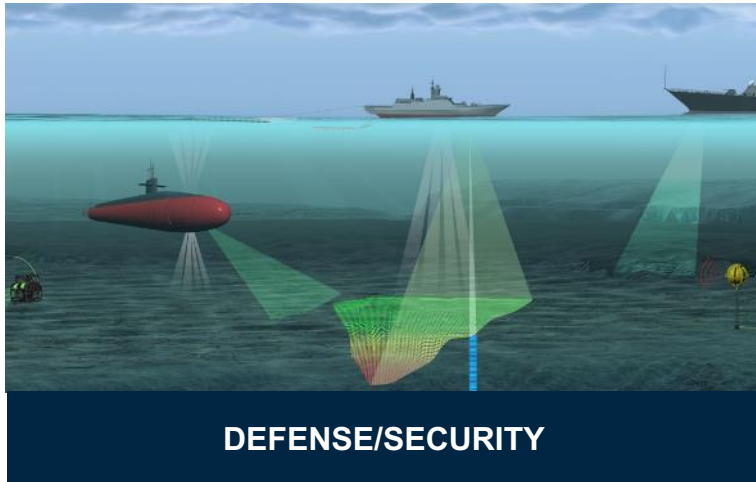
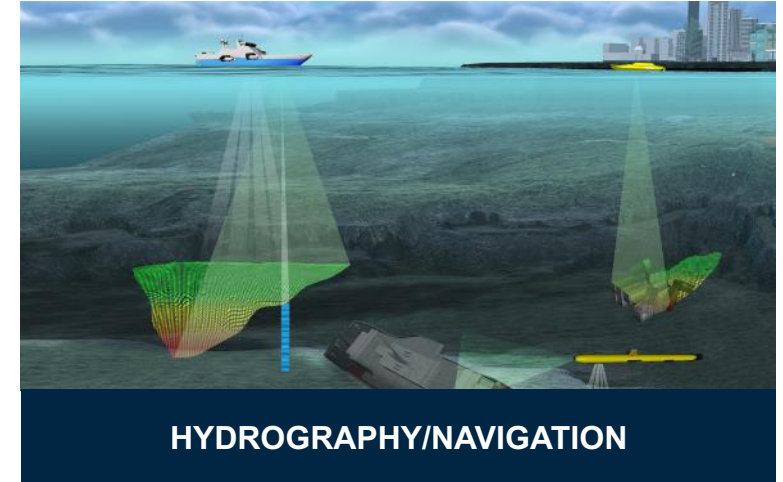
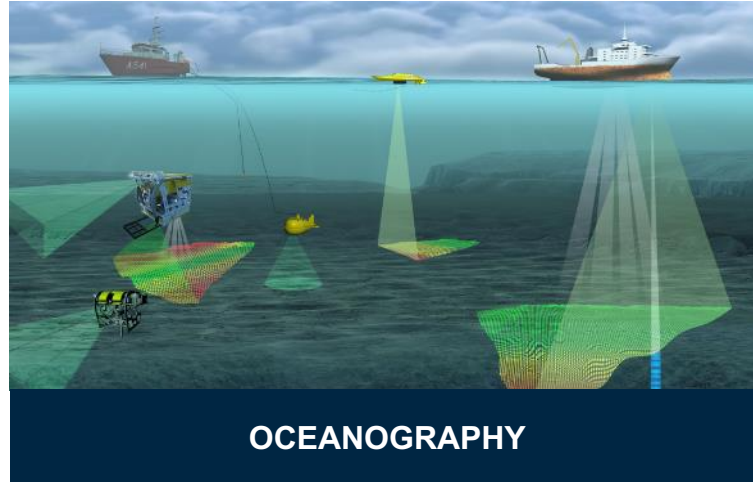
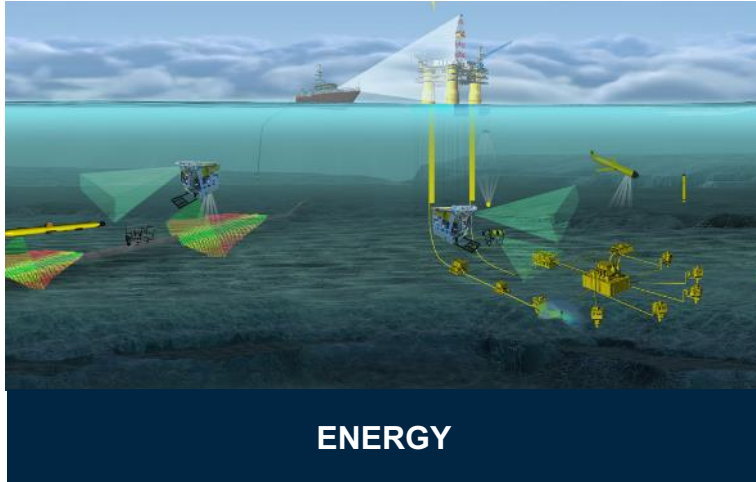
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Global Support

1

Joint Solution Supplier

TELEDYNE MARINE: MAJOR MARKETS

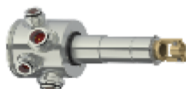
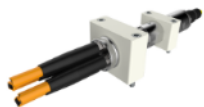




TELEDYNE MARINE

Everywhere you look™

INTERCONNECT



- AG Geophysical
- DGO
- Impulse
- Impulse-PDM
- ODI
- Storm Cable
- VariSystems

SEISMIC



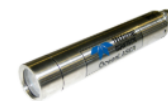
- AG Geophysical
- Bolt
- Geophysical Instruments
- Real Time Systems

VEHICLES



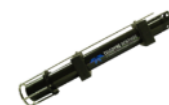
- Benthos
- Gavia
- Oceanscience
- SeaBotix
- Webb Research

IMAGING



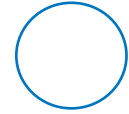
- Blueview
- Bowtech
- CARIS
- Odom
- Hydropahic
- PDS
- RESON

INSTRUMENTS



- Benthos
- CDL
- Cormon
- Oceanscience
- RD Instruments
- TSS

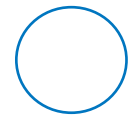
TELEDYNE BENTHOS PRODUCTS



Acoustic Telemetry Modem (ATM) 900 Series



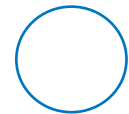
R-Series Acoustic Releases



Directional Acoustic Transponder (DAT) 900 Series



Compact Modem

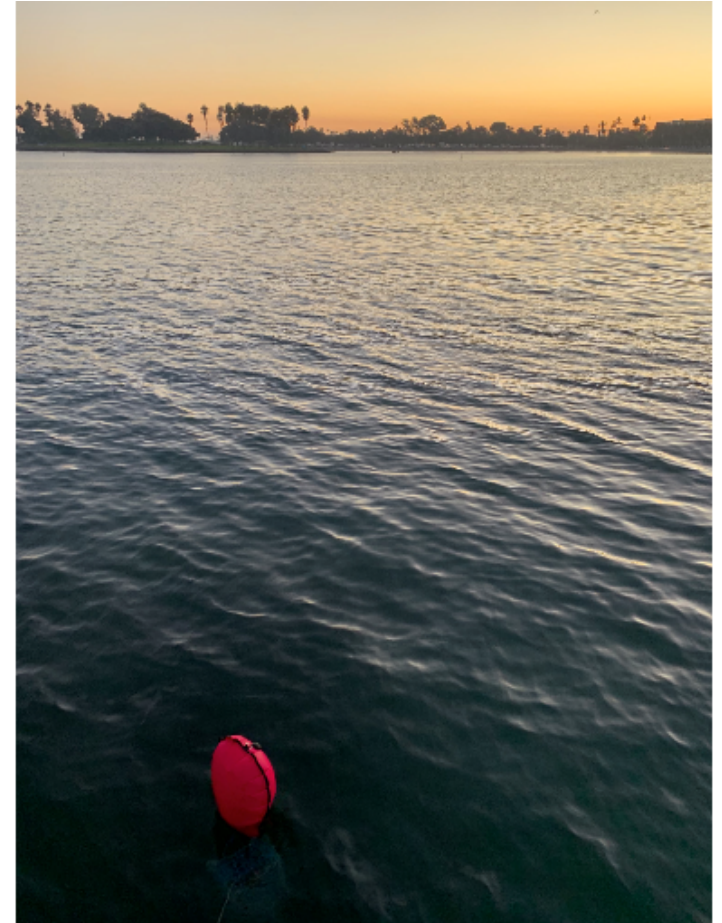


Universal Deckboxes (UTS) 9400

ACOUSTICS IN SUBSEA TRAPS

Reliable Solutions

- Ranging and data telemetry capabilities
- Compact Modem with SMELTS Liftbag technology
- Release Command activates liftbag



TOPSIDE TECHNOLOGY

Solution Options

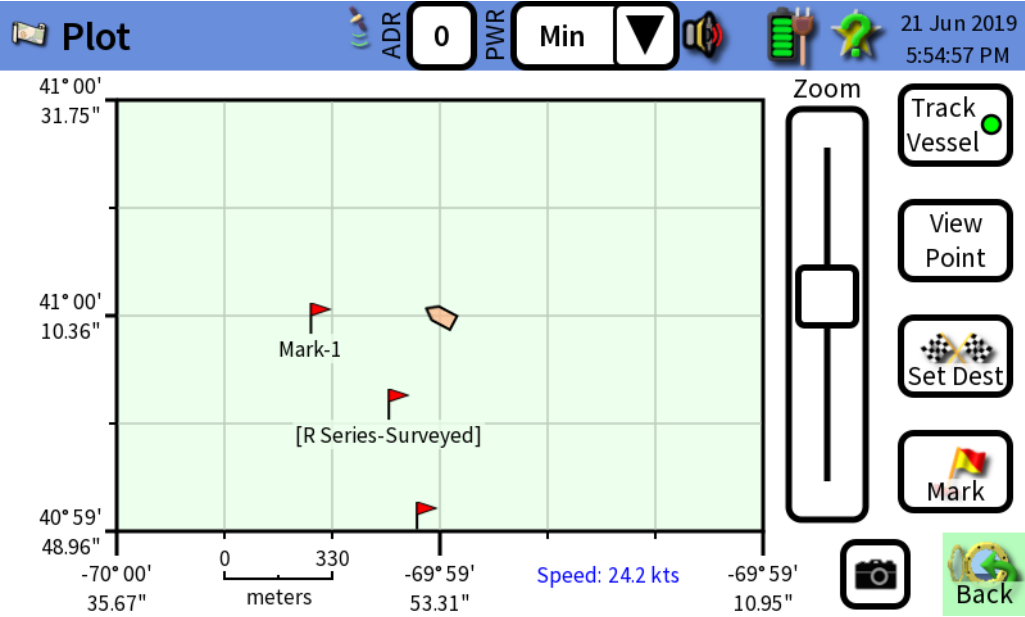
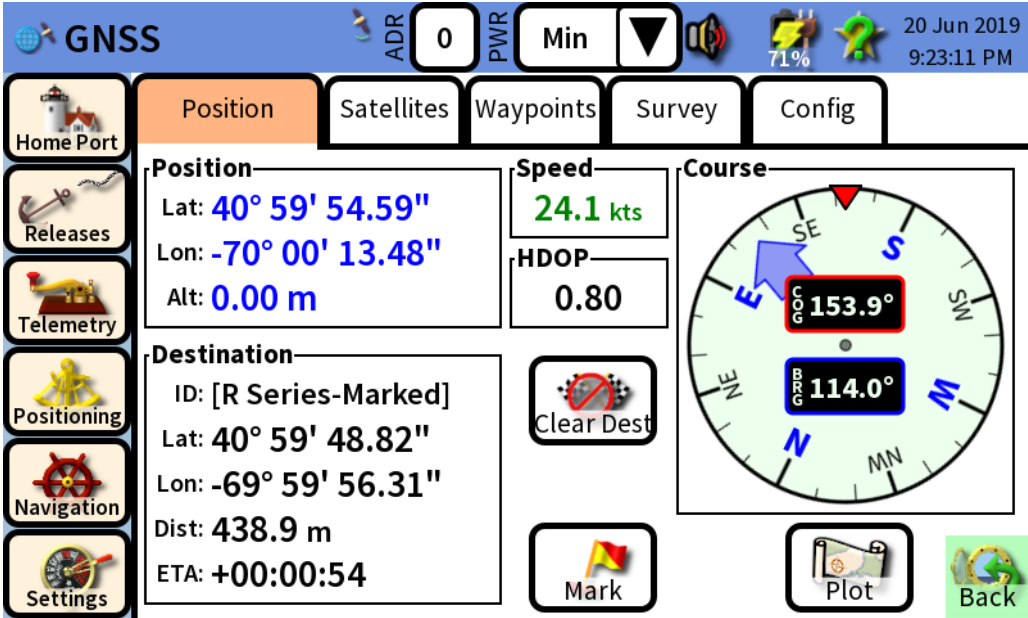
- ReleaseIt Deckbox
- Directional Acoustic Transponder (DAT)
- Universal Topside (UTS) with GPS Feature



GPS FEATURE FOR LOCATION

UTS-9400

- Survey any in-band gear with tonal transponding
- Regulators can mark and check on traps



ROPELESS CONSORTIUM

For questions on this solution or product information,
contact: julia.rugo@Teledyne.com

Thank you!

