



SeaLink™ Solid Streamer

High Channel Data Acquisition

OFFSHORE TECHNOLOGY SOLUTIONS™



Seamap's SeaLink Solid Streamer active sections are available to work in tandem with the SeaLink 3840 Recording system and the SeaLink 24 Digital Module and 24 Channel Tension Modules. The SeaLink Solid Streamer is the first streamer to incorporate real time passive flow noise reduction by utilising the properties of the PVDF Thin Film Technology to create a multiple sensor configuration where flow noise is sensed independently from acoustic energy. Seamap's patented technology is combined with the acoustic output in such a way as to significantly mitigate unwanted noise due to flow while preserving acoustic amplitude and phase.

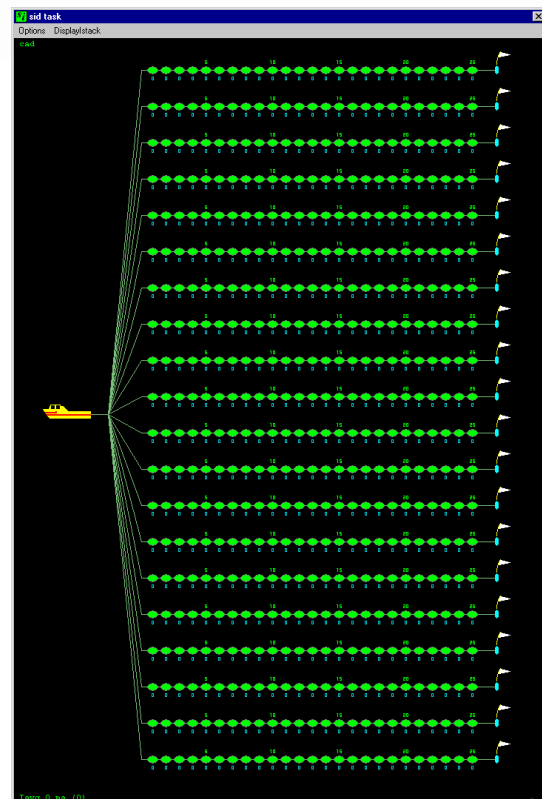
The Solid Streamer active section incorporates Seamap's patented Active Flow Noise Canceling Hydrophones for significantly higher overall signal to noise ratio. Low stretch high modulus center stress member, torque balanced core cable design, and robust flotation all provide a uniquely stable and resilient solid streamer design. Coupled with Passive Flow Noise Canceling Hydrophones, Seamap's Solid Streamer package provides unmatched performance and durability in the industry. All sections are equipped with the SeaLink connector tie off adapter.

Attributes:

- Rugged, Reliable & Durable
- Bi-Directional Sections
- High Channel Capacity (3,840)
- Fewer Connections and Components
- Proven Technology
- Simple to Handle
- Easy to Operate
- Reduced Bend Diameter (For storage)

Applications:

- Marine 2D / 3D / 4D Seismic
- High Resolution Seismic
- 2D Ultra High Resolution Seismic
- HR3D Ultra High Resolution Seismic
- Up to 15km Active Lengths



Specifications:

SeaLink Solid Streamer				
Coupling Connectors	56 Contact Circular Female Connectors	Capacitance – 8 Phones	Nominal for Baseline Array 0.143µF ± 5%	
Depth - Absolute Maximum	3280 ft (1000 m)	Configuration 12 Ch @ 9.375m & 24Ch @ 18.5m 12 Ch @ 18.75m & 24Ch @ 37.5m 12 Ch @ 37.5m & 24Ch @ 75m 12 Ch @ 75m & 24Ch @ 150m 12 Ch @ 150m	1 X .78125m Hydrophone 2 X 1.5625m Hydrophone Groups 4 X 3.125m Hydrophone Groups 8 X 6.25m Hydrophone Groups 16 X 12.5m Hydrophone Groups	
Depth - Operational Maximum	656 ft (200 m)		Exportable Hydrophone Groups When required under exportable regulations.	
Construction	Center Stress Core Cable with PU/ microsphere flotation over-mold		Coupling Type	Hydrophone Outputs Direct Coupled in Parallel Via a Balanced Twisted Pair
Overall Diameter	1.95 ± 0.015" Nominal OD		Hydrophone Type	PVDF Polymer with Passive Flow Noise Canceling Patent USPTO # 9507041, 9256001, 9207341, 8695431 Including an exportable version
Minimum Over-mold Thickness	0.1875 ± 0.010" (0.630 ± 0.025cm)		Group Interval	.78125m, 1.5625m, 3.125m, 6.25m and 12.5m
Chassis Length	487.58 ± 0.16 ft (149.526 ± 0.050 m) 487.59 @ 1000 lbs. tension est.	Acoustic Aperture	1" (.254cm) @ .78125m spacing 4.5" (11.43cm) @ 1.562m spacing 13.5" (34.29cm) @ 3.125m spacing 31.5" (80.01cm) @ 6.25m spacing 68.375" (173.6725cm) @ 12.5m spacing	
Load - Absolute Maximum	Twaron Stress Member 100kN (22,500 lbs / 10,206 kg) est.	Channel Per Section	.78125m single – 12 & 24 channels 1.5625m group – 12 & 24 channels 3.125m group – 12 & 24 channels 6.25m group – 12 & 24 channels 12.5m group – 12 channels	
Load - Operational Maximum	30kN (6,744 lbs / 3,059kg) est.	Sensitivity	-193dB Volts re 1µPa ± 1.0dB @ 126Hz 22uV/uB	
Minimum Bend Radius	61 cm	Sensitivity vs. Frequency	+/- .5db from 1 to 8000 Hz	
Flotation Material	Solid with 3M .024sg microsphere shore, A40 400% elongation est.	Acceleration	70dB Volts/g (1mVg/g) at 20Hz	
Center Stress Member	1 x Kevlar, Twaron, or Xylon 2.5% max elongation at break	Sensitivity vs Temperature	<1dB Over Operating Range	
Section Weight (150 meters)	683.83 lbs (289.013 Kg) est.	Element spacing within group	4.5" (11.43 cm)	
Section Weight (75 meters)	317.92 lbs (144.5 Kg) est.	Custom Designs and Customising Array Sections Are Available Upon Request		
Section Weight (37.5 meters)	158.96 lbs (72.25 Kg) est.			
Buoyancy	All sections are neutral in fresh water Section sg= 1 g/cc			
Ballast Technique	Distributed ballast Seamap weights optional			
Conductors - Auxiliary	3 x 22AWG Stranded Tinned Copper Twisted Pair w/PP Insulation			
Conductors - Hydrophone Arrays	26 x 24AWG Stranded Tinned Copper Twisted Pair w/PP Insulation			
Conductors - Power	4x 20AWG Stranded Tinned Copper w/PVC Insulation Round Trip 4.65W			
Conductors - Telemetry	8x 22AWG Stranded Tinned Copper w/PVC Insulation Operating Voltage			



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