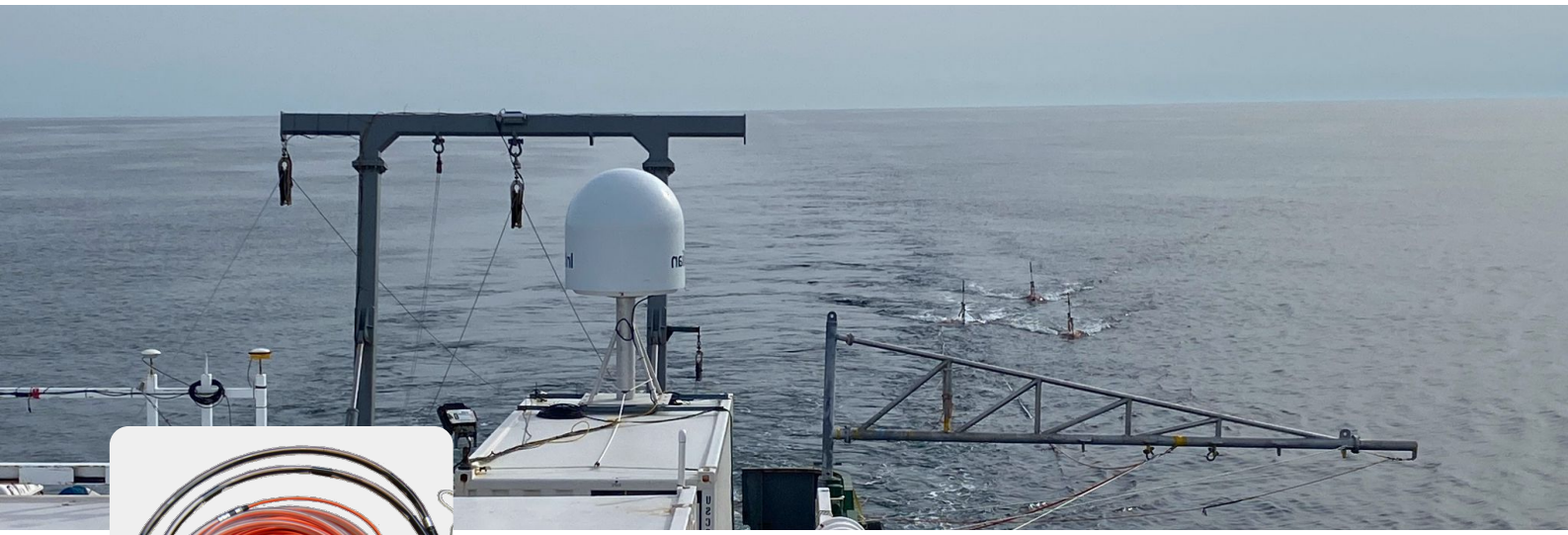
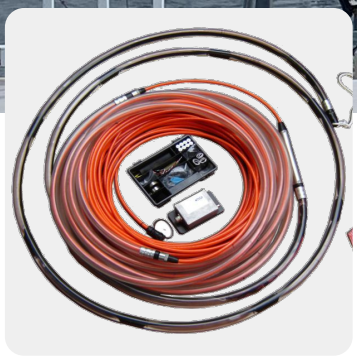
MARINE SURVEY SYSTEMS

Geo-Sense Mini-Streamers

ULTRA HIGH-RESOLUTION STREAMERS





High quality and versatile Single-Channel Streamer with arrays of 8 to 24+ elements.

Description

APPLICATION AND COMPATIBILITY
The Geo-Sense Mini-Streamers are a robust and versatile option for single-channel seismic operations from very shallow to deep water (the short 8-element array was successfully used in 4500 m water depths). They are specifically designed to capture the high frequency spectrum emitted by our sparker and boomer sources, but can also be used to capture the signal of LF sources, such as air guns and water guns and can be interfaced with any third party recording system.

DESIGN
Geo-Sense Mini-Streamers have the standard 30 cm separation between elements and the 8 and 24 elements versions. However, The active length and number of elements can be configured to your requirements.

AQ-2000 HYDROPHONES
The AQ-2000 allows a stable performance over a wide range of water depths. It has excellent acceleration-cancelling qualities and an exceptionally wide frequency bandwidth. The AQ-2000 can be installed into standard array configurations or integrated into custom-moulded packages. Every hydrophone is tested for sensitivity, capacitance and insulation to ensure the highest quality product for all very high resolution seismic operations.

Operational Features

→ Can be employed in small and large vessel operation.

→ Can be handled by one person.

→ Water depths from 2 to 4500 m.

→ Compatible with third party sources and recording systems as long as the Geo-Sense Filter/Gain Interface is used.

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An at least 4 m long outrigger remains one of the most important requirements to deploy the streamer out of the turbulence of the prop wash (left: small vessel; right: large vessel operations).

pre amplifier.

Technical Specifications

TOW CABLE

Length	Standard 50 m to 100 m
Diameter:	11 mm
Type:	3 × 2 × 24 AWG screened
twisted pair	
Insulation:	Polyurethane
Strain member:	Double reverse spiral Kevlar

ACTIVE SECTION & JACKET

Number of elements:	8 , 16, 24 up to 48
Spacing of elements:	0.3 m standard
Length of active section:	2.4 m / 7.2 m (for 8 / 24 elements)
Length of jacket:	5.4 m / 11.2 m (approx.)
Jacket size ID & OD:	20.5 mm & 26.5 mm
Jacket material:	Unreinforced polyurethane
Buoyancy:	Slightly positive
Array fluid:	Shell Sol T, Parafin oil or gel

PHYSICAL SPECIFICATIONS

Materials:	Fluoroelastomer, high strength epoxy, Hytrel® insulated leads
Weight in air:	14 grams
Size:	4.56 cm long x 1.32 cm diameter
Displacement:	6.24 cc
Temperature:	Operating: -10°C to 50°C
Storage:	-40°C to 60°C

PRE AMPLIFIER

Size:	60 × 16 mm
Gain:	26 dB
Ground reference:	Single-ended
Power:	9 -12 V DC (polarity protected)
High-pass:	-3 dB: 3 Hz
Low-pass:	-3 dB:13 kHz
Output impedance:	60 Ω

GEO MARINE SURVEY SYSTEMS

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Technical Specifications

A2-2000 HYDROPHONE ELECTRICAL SPECIFICATIONS

Leads:	Two 28 AWG stranded conductors (red and black), Hytrel® insulation, 12.7 cm long each
Connector:	None
Polarity:	A positive increase in acoustic pressure generates a positive voltage on the red conductor
Capacitance:	4.5 nF +/- 25% at 20°C and 1 kHz
Resistance:	500 MΩ minimum across leads or to sea water at 20°C and 100% relative humidity, 50 V DC
Dissipation:	0.02 typical

PERFORMANCE

Sensitivity @ 100 Hz

Free-field voltage:

-201 dB re 1 V/µPa +/- 1.5 dB

Sensitivity change

Versus frequency: +/- 0.25 dB from 1 Hz to 1 kHz

(+/-2.0 dB from 1 kHz to 10 kHz)

Versus depth : < 0.5 dB to 1000 m

Versus temperature: < 0.03 dB per 1°C change

Acceleration Sensitivity

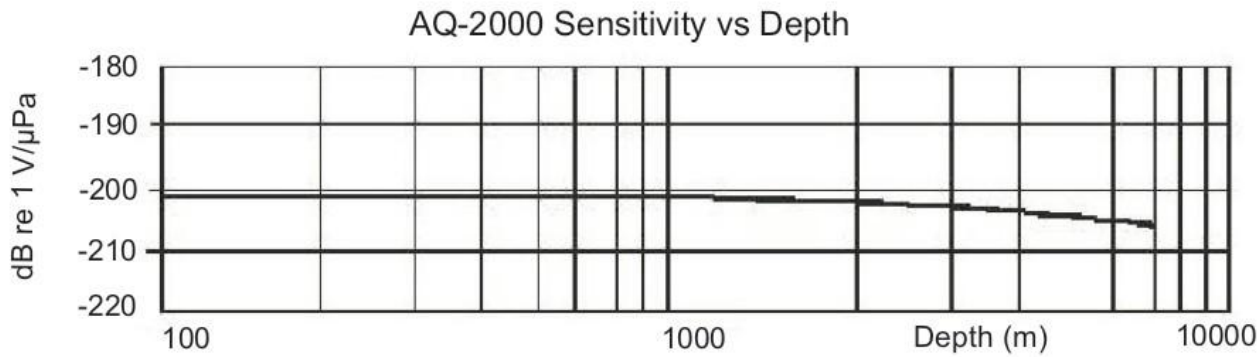
Output is <1.5 mV/g due to acceleration in any of the three major axes at 20 Hz

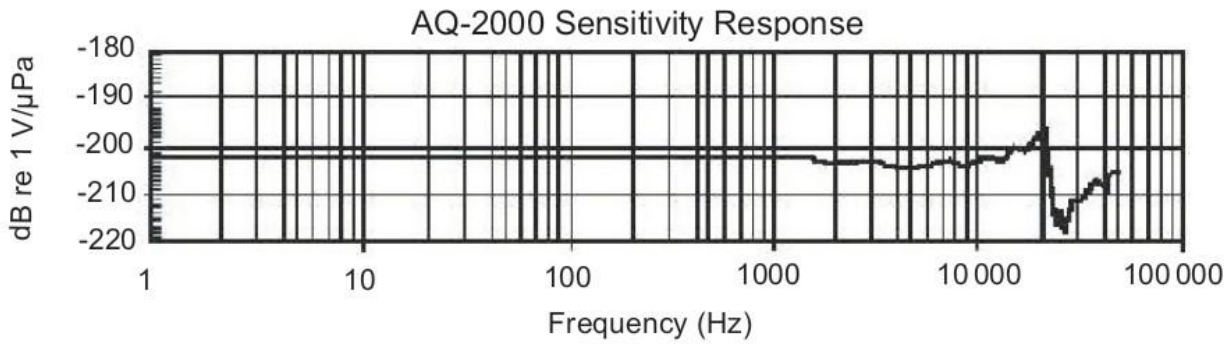
Mechanical

Resonance typically 20 kHz in water

Maximum operating depth of 2000 m

Destruction depth of more than 7000 m





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