

# C-Phone

## Technical Specifications



The C-Phone MEH is an 8 element 2m long mini hydrophone streamer tailored to match the acoustic output of the C-Boom 600 Volt Boomer and the logging input of the C-View Seabed Data Management Package.

A light weight Kevlar reinforced 60m tow cable conveys the signal in balanced differential format to the deck receiver. The receiver has two fully isolated single ended signal outputs via standard BNC connectors. 24 Volt external power is supplied by a compact light weight mains universal power supply (90-260Vac). The C-Phone MEH frequency response is -3dB at 500Hz and 12KHz and has a sensitivity of -144dB re 1V/uPa.



### Benefits of using the C-Phone

- The mini Hydrophone streamer is short and easy to use on vessels of all sizes
- Optimised element spacing matches the frequency spectrum of the C-Boom
- Signal output is fully isolated to prevent earth loop problems
- Streamer can be removed from the tow cable
- Tow cable is ultra lightweight, double insulated and reinforced with Aramid
- Streamer is filled with natural castor oil, not kerosene or silicon based oils

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## Standard C-Phone Package Includes:-

- 1 x Hydrophone streamer & tail
- 1 x 60m signal tow cable
- 1 x Deck receiver
- 1 x External mains SMPS power supply
- 1 x IEC mains cable with 13A square pin plug
- 1 x 2metre BNC - BNC signal cable
- 1x Operators manual
- 1x Pair protective connector caps

**Technical Specifications**      **Model No**      **2M8E150A16**

## C-Phone Streamer

Physical Length:	1800mm
Diameter:	26mm
Number of Sections:	1
Number of Elements per Section:	8
Element Spacing:	Matched to C-Boom LVB
Element Connection:	Series
Element Sensitivity:	-195 dBV re 1uPa
Weight in Air:	1.3Kg
Weight in Water:	
Filling Medium:	Pure Castor Oil
Filling Volume:	375mL
Filling Mechanism:	Tail plug unscrews.
Tube:	All temperature extra flexible
Tow Depth:	0 - 2000mm

## Amplifier properties:-

Frequency Response	-3dB at 500Hz to 12KHz
DC Signal Gain:	200
Signal Output:	Balanced differential
Signal Output Impedance:	1000 Ohms each phase
Potted Size:	88mm x 17mm Ø



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## C-Phone Deck Receiver

Size: (Inc connectors and feet)	172mm x 90mm x 52mm
Weight	344g
Colour	Yellow
Input connector	Binder 440 series 6 Way
Input signal type	Full differential.
Output connectors	BNC
Output signal type	Single ended & fully isolated.
Output signal sensitivity	dB re 1uPA @ 1m
Output signal voltage swing	15.8 Volts Pk to Pk max
Output signal impedance:	600 Ohm
DC Resistanmce	55 Ohm
Number of outputs:	2 (fully isolated)



## C-Phone External Power Supply

Input voltage:	100-240 Vac
Input Frequency:	47-63Hz
Power Consumption:	15 Watt
Input Connector:	IEC
Size: (No including cables)	90mm x 38mm x 36mm
Weight:	424g Inc cables
Colour:	Black

## C-Phone Light Weight Tow Cable

Weight in Air:	13Kg Approx.
Weight in Water:	11Kg
Diameter:	12mm Ø
Standard Length:	60m
Cable breaking strain	500Kg
Conductors:	Twisted pair shielded
Deck connector:	Binder 440 series 6 way
Wet connector:	Impulse 5 pin Waterproof

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## C-Phone Optional Spares Kits

### Repair Kit (Standard)

- 1x 1 x Amplifier
- 4 x SS Tube fastener
- 1 x Nylon lock screw,
- 1x O-Ring set (4 per set)
- 2 x Heat shrink
- 4 x Rubber covers (for elements)
- 1 x Element hook up wire 0.5m
- 4 x Solder tags
- 1 x 500ml castor oil
- 2 x Mains fuse
- 4 x pre amp fuses
- 1x Pair of protective caps



### Repair Kit (Express)

In addition to the standard site repair kit the "express" version contains a hydrophone connector and a top end hose fitting. These are assembled at the factory together with the amplifier.

The kit enables a very fast repair to be made within minutes since only the receiver element string requires connecting to the assembly.

A simple, fast and effective solution to a break down.



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Individual items and  
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