



ATLAS DESO 350M

Precision Survey Echosounder

As a world technology leader in design and integration of complete hydrographic systems, ATLAS Hydrographic can look back on a history of 100 years. Our road map in the past is characterised by a broad and loyal customer base operating with our leading technology designed for various hydro-acoustic applications.

Customers like Navies, Hydrographic Organisations, Oceanographic Research Institutes, Offshore Engineers, Surveyors and Environmental Agencies use our reliable and integrated hydro-acoustic systems around the world and benefit from our technical know-how, we have developed during the last century.

Our guideline of a strict modular system landscape allows us to provide our customers with an open and flexible architecture which can be easily combined with a variety of auxiliary tools and adaptable infrastructure to an Integrated Survey Sensor System IS³.

Customer Benefits

The rugged and weatherproof ATLAS DESO 350M outperforms other echosounders in its class, offering the highest portability without losing ATLAS Hydrographic's performance standards. With dual frequency configurations, optional built-in DGPS and bundled notebook PC the DESO 350M has everything you need in an echosounder .

The ATLAS DESO 350M echosounder is operated by the ATLAS DESO CONTROL software installed on a standard personal computer. The software module offers internal data storage and playback of the 16-Bit digitised analogue return signal digitised.



Effective object search operations with precise vertical depth reference becomes more and more important for instance in harbour navigation safety.

In combination with the ATLAS bottom TVC feature, a more reliable navigation channel monitoring for dredging planning is possible.

Features

- Two acoustic channels
- Modular compact rack
- Versatile frequencies of 10 – 50 kHz and 100 – 750 kHz
- Single or dual side-scan operation
- High resolution digital depth and raw echogram recording
- Bottom TVC

Specifications and Performance Data

Operating Frequencies

High band:
100 kHz - 750 kHz
Low band:
10 kHz - 50 kHz

Depth Range

0.2 - 200 m @ 210 kHz
0.5 - 1500 m @ 33 kHz

Output Power

High band:
100 kHz - 500 W_{rmsmax}
210 kHz - 400 W_{rmsmax}
750 kHz - 200 W_{rmsmax}
Low band:
12 kHz - 1 kW_{rmsmax}
50 kHz - 750 W_{rmsmax}

Accuracy

0.01 m ± 0.1% depth @ 210 kHz
0.10 m ± 0.1% depth @ 33 kHz
0.18 m ± 0.1% depth @ 12 kHz

Phasing

Automatic scale change, 10%,
20%, 30% overlap or manual

Resolution

0.01 m

Depth Display

On control PC and LCD display

Annotation

Internal: date, time, GPS position
External: from RS232 port

Interfaces

2 x RS232 serial ports, baud rate
selectable 4800 - 19,200.
Inputs from external computer,
motion sensor, GPS,
outputs to external computer,
remote display unit
Ethernet LAN interface
Heave: TSS1 format

Storage

Data storage on optional standard
PC

Internal GPS

Optional internal GPS receiver with
Beacon antenna

Software

ATLAS DESO CONTROL software
supplied

Log File

The change of each parameter is
stored in the log file

Help

The function of each parameter
and its minimum and maximum
values is shown in the help file of
the software

Installation

Desk top Input

Power

115 or 230 V AC or
24 V DC, 50 W

Environment

0° - 50° C, 5 - 90% relative
humidity,
non-condensing

Dimensions

Height x Width x Depth
530 mm x 440 mm x 215 mm

Weight

13.8 kg

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