

HYDROGRAPHIE

DESO 35

Sondeur

- THREE ACOUSTIC CHANNELS
- MODULAR COMPACT RACK
- DUAL SIDE-SCAN OPERATION
- BOTTON TVC



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.

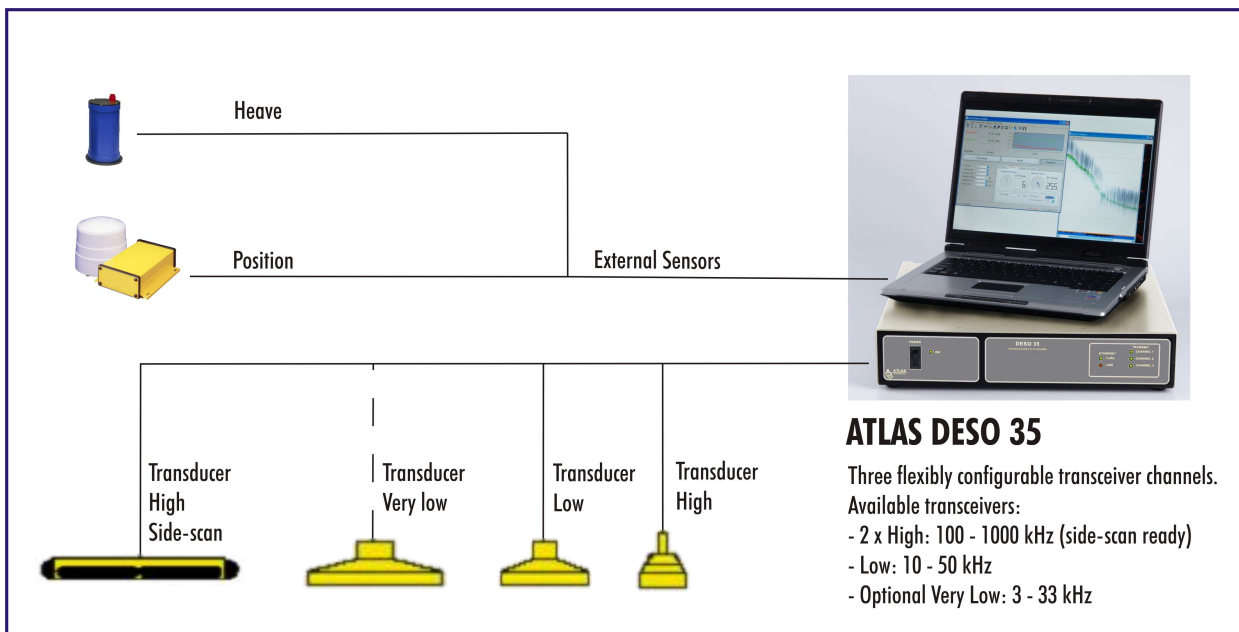
Customer Benefits

The ATLAS DESO 35 with three acoustic channels is a new survey echosounder design incorporating the cutting-edge technology and reliability of ATLAS DESO echosounders. The unit is supplied in a modular compact rack mount package that is ideally suited to many shipboard installations.

The ATLAS DESO 35 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. With the new third acoustic channel, an ATLAS DESO 35 Integrated Survey Sensor System can be suited to operate a starboard and a backboard side-scan sonar in parallel to vertical depth sounding.

Other users benefit from the third channel and the very low frequency vertical transducer to profile sediments. In combination with the ATLAS bottom TVC feature, a more reliable navigation channel monitoring for dredging planning is possible.



Technical Specifications

Operating Frequencies	<ul style="list-style-type: none"> • 2 x high band: 100 kHz - 1 MHz • Low band: 10 kHz - 50 kHz • Optional very low band: 3 kHz - 33 kHz
Depth Range	<ul style="list-style-type: none"> • 0.2 - 200 m @ 210 kHz / 0.5 - 1500 m @ 33 kHz / • 1.0 - 6000 m @ 12 kHz
Output Power	<ul style="list-style-type: none"> • High band: 100 kHz - 1 kW_{rmsmax} / 210 kHz - 900 W_{rmsmax} / 750 kHz - 300 W_{rmsmax} • Low band: 12 kHz - 2 kW_{rmsmax} / 50 kHz - 1.5 kW_{rmsmax} • Very low band: 3 kHz - 3 kW_{rmsmax} / 33 kHz - 2.5 kW_{rmsmax}
Accuracy	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • Automatic scale change, 10%, 20%, 30% overlap or manual
Resolution	<ul style="list-style-type: none"> • 0.01 m
Depth Display	<ul style="list-style-type: none"> • On control PC and LCD display
Annotation	<ul style="list-style-type: none"> • Internal: date, time, GPS position • External: from RS232 port
Interfaces	<ul style="list-style-type: none"> • 4 x RS232 and 1 x RS422 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	<ul style="list-style-type: none"> • Data storage on optional standard PC
Internal GPS	<ul style="list-style-type: none"> • Optional internal GPS receiver with Beacon antenna
Software	<ul style="list-style-type: none"> • ATLAS DESO CONTROL software supplied
Log File	<ul style="list-style-type: none"> • The change of each parameter is stored in the log file
Help	<ul style="list-style-type: none"> • The function of each parameter and its minimum and maximum values is shown in the help file of the software
Installation	<ul style="list-style-type: none"> • Rack mount, or desk top Input
Power	<ul style="list-style-type: none"> • 115 or 230 V AC or 24 V DC, 50 W
Environment	<ul style="list-style-type: none"> • 0° - 50°C, 5 - 90% relative humidity, non-condensing
Dimensions	<ul style="list-style-type: none"> • Height x Width x Depth 90 mm x 450 mm x 325 mm
Weight	<ul style="list-style-type: none"> • 5.4 kg