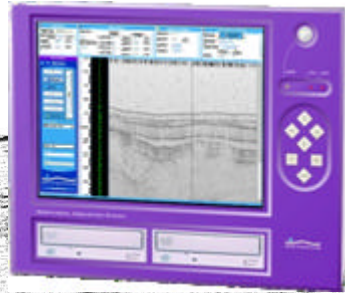


360+

Sub-Bottom Processor

The market leading acquisition and processing system for sub-bottom profiler in an all-new package



The Octopus 360+™ Sub-Bottom Processor is the latest version of the much loved Octopus 360 acquisition and processing package for sub-bottom profiler, in an all-new package.

Building on the reputation of the industry leading Octopus 360 sub-bottom processor, the 360+ brings the Octopus geophysical acquisition range right up to date, whilst retaining the simplicity of operation and rugged, reliable design familiar to Octopus users around the world.

Combining Octopus design philosophy focussing on ease of use, with the latest hardware and software and technology, the 360+ guarantees compatibility with other systems and peripherals. Incorporating a large high resolution display and the familiar Octopus key-driven user interface in a rugged instrument, the 360+ is simple to use in all survey scenarios and is ideally suited to use on small and large vessels alike. Adopting the latest features and familiarity of Windows XP™ in an instrument package provides all of the benefits with none of the problems. With a simple layout taken from the previous Octopus 360, 360+ combines ease of use with maximum flexibility and performance. Designed and packaged specifically for sub-bottom acquisition, the 360+ is ready to use out-of-the-box and requires minimal training and no special hardware configuration, whilst the optional in-built UPS capability guards against power failure ensuring all data is kept safe. Adding optional internal GPS makes the 360+ fully self-contained, for added simplicity.

The 360+ is compatible with all standard sub-bottom profilers, pingers, boomers, sparkers and chirp in a compact package.

FEATURES

- Single channel analogue sub-bottom profiler acquisition
- Compatible with all analogue sub-bottom profiler systems including:
 - pinger
 - boomer
 - sparker
 - chirp
- Analogue output
- Analogue heave input
- Wide range of gain and signal processing tools specifically designed for sub-bottom
- Standard recording formats: XTF, SEGY & CODA
- Internal recording to hard disk and DVD RAM disks
- Simple 7-key interface
- Serial inputs for navigation and standard fix strings
- High resolution 15" screen
- High speed network connectivity
- 19" rack mountable or freestanding
- Supports all standard printers (analogue and digital)
- Optional in-built UPS

BENEFITS

- Simple to use
- Reduced operating costs
- Reduced hardware
- Minimal user training
- Maximum flexibility
- Fully compatible with all popular post-processing systems
- Extends the life of existing sub-bottom profilers
- Data stored internally is easily and quickly downloaded

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Octopus 360+™ Sub-Bottom Processor

Technical Specification

INPUTS AND OUTPUTS

Analogue inputs	16 bit scalable from 125mV to 5V configured as 1 x sub-bottom analogue input + analogue heave input.
Analogue outputs	Analogue output, synchronous with trigger out.
Trigger input	Single trigger input with variable threshold (250mV/2.5V) synchronises start of analogue acquisition.
Trigger outputs	Internal trigger (5v) user selectable rate, 50ms to 10 seconds. Delayed trigger synchronised to start of sub-bottom acquisition.
Navigation & fix data	2 x RS232 serial inputs (9 pin D-type) for NMEA navigation (GGA, GLL, VTG, RMC etc.) or Octopus fix and annotation strings. Additional inputs on request.
GPS	Optional in-built GPS (with DGPS and/or WASS) for fully self-contained operation. Antenna connection at rear.
Printer interfaces	Centronics (25 way D-type) interface for Octopus, EPC, Ultra and Isys printers. SCSI interface for Alden/GeoPrinter (SCSI interface optional)
Network	10/100/1000 MbitS ⁻¹ Ethernet interface (RJ45).
Other interfaces	USB x 2 (standard). SCSI II (optional), others available on request.

DATA RECORDING

Recording devices	Internal 2.5" shock mounted hard disk (60Gb). Single DVD RAM/CD-R drive as standard. Optional second DVD RAM/CD-R. Other devices such as DAT, removable HDD etc. available on request.
Recording formats	SEGY, CODA, XTF. All data is recorded raw (without gain or processing applied).

DISPLAY MODES

Sub-bottom	Single channel sub-bottom profiler display, horizontal scrolling with co-registered oscilloscope display. Pan and zoom functions for optimum data view. All gain and processing controls on-screen.
Full screen	Horizontally scrolling sub-bottom profiler.
Navigation	All navigation, fix, annotation and status information shown on all screens.

CONTROLS

User Interface	Familiar Octopus 7-key interface allowing quick and easy navigation to all functions without the need for a mouse. Arrow keys snap between groups of controls and allow selection of specific functions. 'Y' & 'N' keys allow settings to be saved or cancelled. 'PAGE' key allows rapid selection of display screens.
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PROCESSING

Gain	Variable gain hydrophone pre-amplifier (pre digitisation). Digital base gain. Three stage TVG.
Signal processing	High & low pass time varied filters (TVF). Time varied stacking. Swell compensation (automatic or external heave input).

PHYSICAL

Dimensions	443mm(w) x 355mm(h) x 235mm(d) (19" rack compatible).
Weight	15kg
Power	90-250Vac 47-400Hz, 200Watts. Optional 24Vdc input Optional in-built UPS coupled with automatic power management and controlled shutdown capability guards against power loss problems. <i>NB. requires 24V battery pack in place of second DVD drive</i>
Construction	Rugged but lightweight aluminium chassis with anodised front panel.
Display	High-brightness 15" TFT screen, 1024 x 768 resolution.
Controls	Octopus 7-key user controls for all functions.

Octopus™, 360+™ and the Octopus Logo are trademarks of CodaOctopus

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