



Benefits

- Simplified digital and analogue acquisition
- Compact and Robust Package
- Windows™ 11 Compatible
- Operates with GeoSurvey software
- USB-to-PC interface
- Minimal field setup
- Expert 24x7 Technical Support

Compact, Portable Geophysical Acquisition Platform with USB Interface

The DA4G™-USB is the latest in the DA4G™ series of acquisition systems from the CodaOctopus®:GEO family. It takes the industry leading digital and analogue acquisition components from the DA4G Series and presents them in a robust and compact package for analogue and digital acquisition.

This small form-factor platform with generic USB-to-PC interface facilitates the use of existing PC hardware for geophysical data acquisition.

The DA4G-USB runs our GeoSurvey software for either single sensor acquisition (DA4G-500 SBP or SSS) or dual sensor acquisition (DA4G-USB 1000 or 2000).

DA4G-USB is based on the 4th generation of our successful DA product range. Built on thirty years of knowledge, experience and innovation in supplying acquisition systems to the worldwide geophysical survey sector, the DA4G-USB is a purpose-built, turn-key solution to incorporate the latest hardware specifications designed to meet the demanding nature of offshore survey work.

With a series of simplified hardware and software solutions that are backed by high quality global service and support, CodaOctopus:GEO remains the family of choice for advanced geophysical solutions.

Features

- Compatible with all leading sidescan sonars and sub-bottom profilers in digital or analogue formats
- Acquire digital and analogue data simultaneously
- Up to 4 analogue input channels
- Dual independent, asynchronous triggering
- Magnetometer input
- Includes GeoSurvey™ software and data is fully compatible with the Survey Engine® range of processing software
- Generic USB-to-PC interface
- Small form factor, portable acquisition platform

Applications

- Site Survey
- Pipeline Survey
- Geophysical Survey
- Geo-hazard Survey
- Cable route Survey
- Environmental Survey
- Wind Farm Survey

System Variants

Model	Triggers	Channels	Interface	Additional Information
DA4G™-USB 500	1	2	SSS or SBP	
DA4G™-USB 1000	1	4	SSS & SBP separately	As DA4G™-USB with multiple display windows
DA4G™-USB 2000	2	4	SSS & SBP simultaneously	As DA4G™-USB 1000 with multiple sensors

Technical Specifications

Inputs and Outputs

Digital Sonar Interfaces	Full range of EdgeTech, Klein, Benthos, GeoAcoustics, and SES geophysical sensors, as well as RESON & ATLAS multi-beam back scatter
Analogue Sonar Inputs	Adjustable analogue input ranges compatible with all analogue sidescan sonar outputs and sub-bottom profilers including direct hydrophone connection. Improved low voltage performance.
Additional Sensors	Heave and Magnetometer inputs
Trigger Inputs	Standard TTL input. Up to 2 independent asynchronous triggers
Trigger Outputs	Standard TTL output. Up to 2 independent asynchronous triggers
Navigation & Fixes	Large navigation library as standard with ability to create customised string decodes (via client supplied PC serial ports)
Printer Interfaces	Up to two independent printers using Ethernet interfaces (via client supplied PC)
USB	USB interface to client supplied PC

Data Recording

Formats	CODA, SEG-Y, XTF. Both raw and processed data can be recorded
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Display

Modes	Vertical and Horizontal scrolling windows in both directions, single or dual channel; Oscilloscope window; Zoom windows; Fix & Scale lines; Attribute plotter
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Processing

Sidescan	Time Varying Gain; Image Enhancement; Across Track Smoothing; Along track speed correction; Automated
Sub-bottom	Bottom Tracking; Measure Tool; All Sidescan processing options plus: Time Varying Filtering; Swell Filter; Heave Filter; Trace Mixing (Stacking)

Interpretation Extensions

Survey Engine® Seismic+	State of the art sub-bottom profiler processing and interpretation package
Survey Engine® Sidescan+	Interpret and report sidescan targets. Fully customisable reporting solution
Survey Engine® Mosaic+	Extensive and extremely powerful Mosaicing output including interpretation
Survey Engine® Pipeline+	Automated and manual Pipeline Inspection Toolkit
Survey Engine® Automatic Object Detection Package "SEADP"	Automatic boulder detection on the sea bed with comprehensive reporting on each detected boulder.

Technical Specifications (Continued)

Physical

Dimensions	350 x 200 x 63 mm
Power	5VDC
Shipping Case	Ruggedized Protection Case

Geosurvey Digital Interface (Sidescan & Sub-Bottom Systems)

Manufacturer	Model
EdgeTech	2200-S
	2200-M
	2400
	3100
	3200
	3400
	4100
	4125
	4200 SP
	4200 MP
	4205
	4300
Klein	3000
	3000 with SBP
	3900
	5000
Teledyne RESON	SEABAT Sidescan
Benthos	SIS 1000/3000
	SIS 1500
	SIS 1600
ATLAS	ATLAS Sidescan
SES	SES Multilink
GeoAcoustics	GeoAcoustics DSSS/Chirp

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