

Benefits



Simplified digital and analogue acquisition

Compact and robust package

Windows® 10 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. This new streamlined system takes the industry leading digital and analogue acquisition components from the DA4G 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) or dual sensor acquisition (DA4G-USB 1000 or 2000). The GeoSurvey software dongle can be embedded in the hardware or issued separately.

DA4G-USB is based on the 4th generation of our successful DA product range. Built on twenty 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 fully compatible with the new 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 & 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 (USB 3 compatible)
Data Recording	
Formats	CODA, SEG-Y, XTF. Both raw and processed data can be recorded
Display	
Modes	Vertical and Horizontal scrolling windows in both directions, single or dual channel; Oscilloscope window; Zoom windows; Fix & Scale lines; Attribute plotter
Processing	
Sidescan	Time Varying Gain; Image Enhancement; Across Track Smoothing; Along track speed connection; Automated Bottom Tracking; Measure Tool; Mosaicing optional
Sub-bottom	All Sidescan 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
Geokit on Mosaic	Interpret and report directly on the sidescan sonar Mosaic
Survey Engine® Pipeline+	Automated and manual Pipeline Inspection Toolkit
Physical	
Dimensions	350 x 200 x 63 mm
Processor	Intel Core i7 610E 2.53 GHz
Operating System	Minimum required Windows® 7
RAM	Up to 8GB (4GB standard)
Hard Disk	500GB 7200 RPM SATA
Power	5V DC
Weight	1.82 kg

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