ScanFish Katria

Intelligent wide-sweep ROTV for magnetometer surveys

EIVA

MARINE SURVEY SOLUTIONS

Gather high-quality data and cut costs

Larger survey area covered in one sweep, close to the seabed

The ScanFish Katria is an intelligent wide-sweep Remotely Operated Towed Vehicle (ROTV) solution for time-efficient magnetometer surveys. As it comes with high-sensitivity magnetometers for maximum target detection efficiency, it is an effective tool for detection of sub-bottom magnetic anomalies.

Wide and dense coverage at a fixed height

The terrain-following operation mode of the intelligent ROTV ensures that it maintains a fixed height as close to the seabed as possible, depending on the topography. This equals high-quality data.

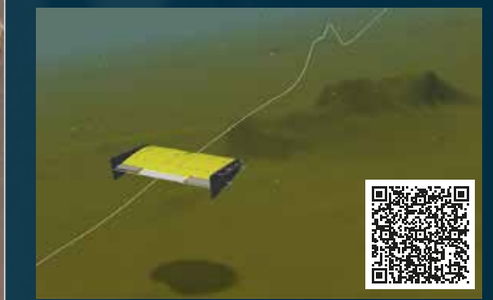
The horizontal array of magnetometers enables you to cover a larger survey area in less time and ensures dense coverage, translating into better indication of signal strength and origin in one sweep.

Affordable survey setup

As the ScanFish Katria is towed at a distance, any type of vessel can be used without risking the survey data being affected by its magnetic signature.

Looking for a total solution?

The ScanFish Katria standard package combined with the optional extras constitute a turn-key solution. From topside unit and subsea cable termination to handling system and the possibility of mounting a pinger/beacon, Ultra-short Baseline (USBL) positioning system, or video and light, we offer you all the necessary components for an optimal magnetometer survey solution that matches your exact needs.



Effective terrain-following operation mode

The terrain-following operation mode of the ScanFish Katria ensures optimal positioning of the magnetometers in the water.

When only the best is good enough

Magnetometer quality and performance are key to successful surveys. Therefore, the magnetometer type included in the ScanFish Katria is the Geometrics G-882 Marine Magnetometer, a high-end yet low-cost solution and the most used in the industry.

User-friendly control and monitoring software solution

The ScanFish Katria comes with the ScanFish III Flight software, which is an easy-to-use software system allowing for control and monitoring of the ROTV.

Intuitive interface for an advanced vehicle

Only a minimum of training is required to prepare the crew to operate the ROTV, which means you will be ready to set sail within a short period of time. Moreover, there is no risk of wasting time on difficulties resulting from a complicated software user interface.

Via the intuitive interface of ScanFish III Flight, you are in complete control of the position of the ROTV by defining its height compared to the seabed. At the same time, you can monitor its position in the water, and an alert panel will warn you of any irregularities.

On-site calibration

A pre-flight feature allows for testing and calibration of the ScanFish Katria on-site prior to deployment, promising you the highest possible performance and data quality.

Recording of flight data

Acquired ROTV data can be analysed by means of a flight recording feature. It enables you to play back all flights and, for example, quickly locate the cause of any irregularities, thus enhancing the quality of your results and saving survey time.

About ScanFish Katria

ScanFish Katria is a third-generation model of the ScanFish ROTV family, a proven solution that has always made the grade in terms of efficiency and durability. In further developing this product range, we are able to offer you an enhanced product of the highest quality.

Robust product with a long service life
Quality materials and easily replaced wear parts characterise the ScanFish Katria and contribute to a high ROI through a long service life.

Two side panels with side guards, which also function as handles, protect the ROTV body and facilitate handling, thus ensuring the safety of the crew during deployment and recovery.

Multiple magnetometers in a horizontal array
Side extensions with cables mounted on each side of the ROTV enable a horizontal setup of four magnetometers. The ROTV functions as a depressor, allowing you to control the positioning of the magnetometers for a constant altitude over the seabed.

To cut a long survey story short

ScanFish Katria offers you:

Effective magnetic anomaly detection
through optimal positioning of multiple magnetometers

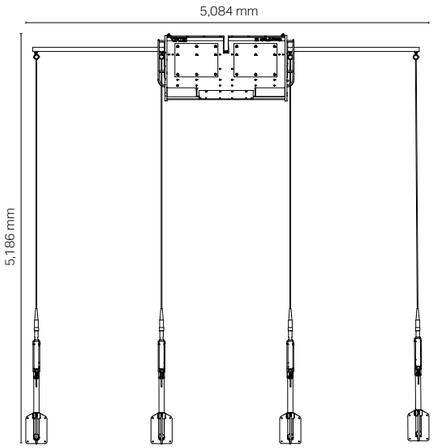
Reduced survey time
through wider coverage in one sweep

Monitoring and complete control of the vehicle
through the user-friendly ScanFish III Flight software

A long service life
through quality materials and easily replaced wear parts

Reduced risk of the solution suffering damages
through robust design

A potential turn-key magnetometer survey solution
through a complete list of optional extras



Weight: 206 kg

Technical specifications

ROTV dimensions

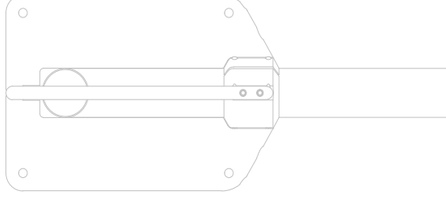
Length	0.90 m
Height	0.26 m
Width	1.80 m
Weight air (water)	75 (0) kg
Colours	Bright yellow and orange

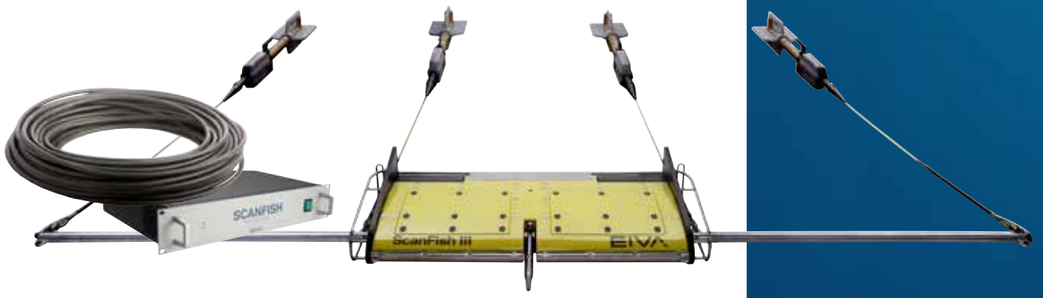
ROTV performance

Depth range	400 m
Towing speed	4–6 kt
Dive/climb speed	0–2 m/s
Anti-collision climb	3 m/s = 45° at 6 kt
Vertical position precision	0.2 m
Roll precision	0.5°
Max slope, terrain-following mode	20°

Magnetometers

Operating principle	Self-oscillating split-beam caesium vapour (non-radioactive)
Operating range	20,000–100,000 nT
Heading error	<1 nT over entire 360° spin and tumble
Absolute accuracy	<3 nT throughout range
Output	RS-232 at 1,200–19,200 Baud
Sensor fish	Body 7 cm diameter, 1.37 m length with fin assembly (27.94 cm cross width), 18 kg Includes sensor and electronics and 1 main weight
Operating temperature	-30°F–+122°F (-35°C–+50°C)





Components of the ScanFish Katria package

- **EIVA ScanFish Katria**
  Including side extensions, tow cables and Geometrics G-882 Marine Magnetometers 4 units – 1 unit fitted with altimeter 30 m range/500 kHz
- **EIVA ScanFish III Flight software**
  Data output: cable counter, basic ROTV status (NaviPac format), depth and altimeter (NaviScan format) Requires minimum (with standard components): dual core Intel, 4 GB RAM, 100 GB 7200rpm HDD, Windows 7 Pro
- **Subsea cable termination**
  Stainless steel tow termination point for mounting on coax cable
- **Deck cable**
  30 m
- **ScanFish – Power & communications topside unit**
  2U rack unit 19" containing power supply and communications, depth: 35 cm, weight: 7 kg
- **Case**
  Heat-treated, water-resistant plywood case for transport and long-term storage, 158 kg, B195xD104xH84 cm

24/7 support service

To EIVA, a sale goes far beyond delivery of the solution. Assisting our customers with any question or challenge that may arise is second nature to us.

On our website, you can find an extensive amount of product information, software downloads and a knowledge base with answers to frequently asked questions. Furthermore, you can subscribe to our 24/7 software and hardware support service.

The service and support team are qualified to deal with all aspects of hardware, software and system integration issues, drawing on our many years of experience in the industry. Our fully equipped electronics workshop is manned by a team of highly specialised electronics engineers, who also often assist our customers on-site in terms of commissioning and post-processing services.

Spare parts

Our extensive list of spare parts includes all wear parts of the ScanFish Katria package. This facilitates replacement of these, thereby minimising the risk of operation downtime.

Optional extras

- **EIVA NaviPac/NaviEdit software**
  Navigation information and positioning calculations for advanced survey planning
- **Geometrics MagLog™ recording software**
  Data acquisition and real-time monitoring
- **EIVA NaviSuite processing**
  Real-time interfacing of G-882 magneto-meters into NaviPac for data monitoring and recording, and NaviEdit for processing
- **ROTV cradle**
  For deck mounting, incl tarpaulin
- **EIVA OceanEnviro™ winch system**
- **PC**
- **Monitor**
- **Mounting of exterior sensors/ equipment**
  Eg pinger/beacon, Ultra-short Baseline (USBL) positioning system, or video camera and light

About EIVA

EIVA is an engineering company with more than 30 years' experience in the offshore construction and survey industry. We provide software, hardware and turn-key solutions to a wide range of segments for virtually any subsea task.

Seeing our solutions out to the deck

The key purpose of our solutions is to optimise our customers' marine construction or survey businesses. We know and understand the challenges they face, and we work closely together with them in choosing and implementing the solution that will offer the most value to their often mission-critical operations with all that implies.

Worldwide customer base and workplace

Our extensive customer base comprises organisations and companies from the international industry. This means that our staff are as familiar with the inside of aircraft cabins as they are with the seabed, due to their travels around the globe to assist our customers on-site.

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T +45 8628 2011 • eiva@eiva.com • eiva.com