Akula 9000C

Datasheet



The Akula 9000C is the absolute best choice for a wide variety of ground penetrating radar surveys. It offers a level of customization and scalability second to none, starting from its rugged design and all the way to the user friendliness of its interface. Its wide choice of automatic settings allows beginner operators to become proficient in this complex technology in no time whatsoever.

The control software delivered with this unit is universal over all range of control units our company delivers making the transition from one unit to the next level a very easy step. The unit is also delivered with a fully functional copy of our excellent post processing software GPRSoft Std which in itself is already a great added value.

The Akula 9000C is compatible not only with all the antennas that Geoscanners AB delivers, but also has the possibility to install optional adapters for using other manufacturer antennas that the customers may have purchased in previous years. This adds a new meaning to the word scalability, customization and affordability for ground penetrating radar units not seen before.

The control unit being a logical successor to the previous versions of Akula series adds all the benefits obtained by the predecessors in its own DNA. This fact alone means a high degree of reliability and quality of data that our customers are accustomed to. We reassure this with a 3 years long warranty and a free calibration during the entire warranty period.



Area of Application

- Utility Location with any ground coupled antenno from the GCB or RSB series.
- Concrete inspections with the microwave line of antennas from the GCB series.
- Geological exploration with the lower band antennas of Gekko series or MFC-1250.
- Road inspection with the horn antennas of the HA series or FLB series.
- Borehole data collection with the borehole antennas of the BA series.
- Forensics with any of the appropriate series of antennas.
- Archeology with any of the GCB antennas.



Mechanical and Environmental Specifications

Dimensions LxWxD (mm/inches)

Weight (kg/pounds)

Fastening points LxW (mm/inches)

Ingress Protection*

Operating Temperature (°C / °F)

Relative Humidity (%)

*Mounted on recommended survey accessories and carts

305x240x55 / 12x9.44x2.16

2.45 / 5.4

197x186/ 7.75x7.32

IP54 (IP65 requires an upgrade) from -20 to +50 /from -4 to +122

96 (NC)

Electrical and Operating Specifications

Power Consumption (Watts)**

Power Supply (Volts)

High Tension Output (Volts)

Survey Wheel Power Output (Volts/Amps)

Analogue Bandwidth (MHz)

Pulse Repetition Frequency (kHz)***

Scan Rate (traces/second)****

Resolution (ps)
Survey Range (ns)

Offset Range (ns)
Amount of samples/trace

Software Gain (dB)

Hardware Gain (dB)

Number of Channels****

Vertical Filters

Horizontal Filters

Operating Modes

Data Storage

Data Format

Interface

Control Software

Compatibility

Languages

5,5

+10.8 to 14

150

5.01 / 0.2

5 to 4000

User Adjustable 12.5 – 200 (395 Option)

1 to 330 (420 Option)

50

6.4 to 32768

+/- 128

128 - 8192

-20 to +80

0 to +10 (+20 Option)

1 - 16

LP & HP IIR and FIR

Stacking, Background removal, Dewow

Time, Distance, One Shot (GPS trigger Op-

tion)

Hard disk, USB Mem Stick, Flashcard

16-bit/8-bit data in propietary GSF Format

USB 2.0

GAS XP

All Geoscanners Antennas (GSSI Option)

English, Swedish, Spanish, Russian,

Croatian, Chinese, French, German, Italian,

Turkish

Windows based

Interface

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^{**} Survey mode only

^{***} Version for the American market restricted to 100kHz (FCC upper limit)

^{****} At 512 samples/scan

^{****} Multichannel operation optional

Included Parts

- Akula 9000C control unit
- AKACASE transit case
- CTR-90x Main control cable. Standard lengths 0.6m, 3m, 6m or custom length
- NKUSB-1 High performance USB cable
- BAT-9000 Lead Acid 12VDC/7h battery in its own pouch
- CHR-103 Charger for Lead Acid battery
- Hard Copy user manual with declaration of conformity

Accessories*

- AKABAT1201 Holder with connector for Akula systems lithium Ion Hydride battery
- AKALION Lithium Ion Hydride battery for Akula series of control units
- MCE-202 MCE-216 Multiplexer for multichannel operation up to 16 channels
- SVC-820 standard 4 wheel cart with survey wheel
- SVC-821 standard 2 wheel cart with survey wheel
- HDR-93x rough terrain holder for Akula9000 series control units (for Scorpio configuration)
- SKABSG Sun shade for Akula series of control units
- AKAC AC adapter for use with mains from 110 to 250V

*Accessories are not included

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