



UNLOCK SUBSURFACE INSIGHTS WITH PRECISION

At AXIOM GROUP, we harness the power of Radiometric Surveys to provide detailed insights into natural gamma radiation emitted from the Earth's surface. Radiometric surveys capture the full gamma-ray spectrum, allowing us to extract critical information about potassium (K), uranium (U), thorium (Th), and other radioelements. This data provides valuable insights into mineral composition, geological structures, and potential contamination sources, helping your exploration projects achieve maximum efficiency and accuracy.

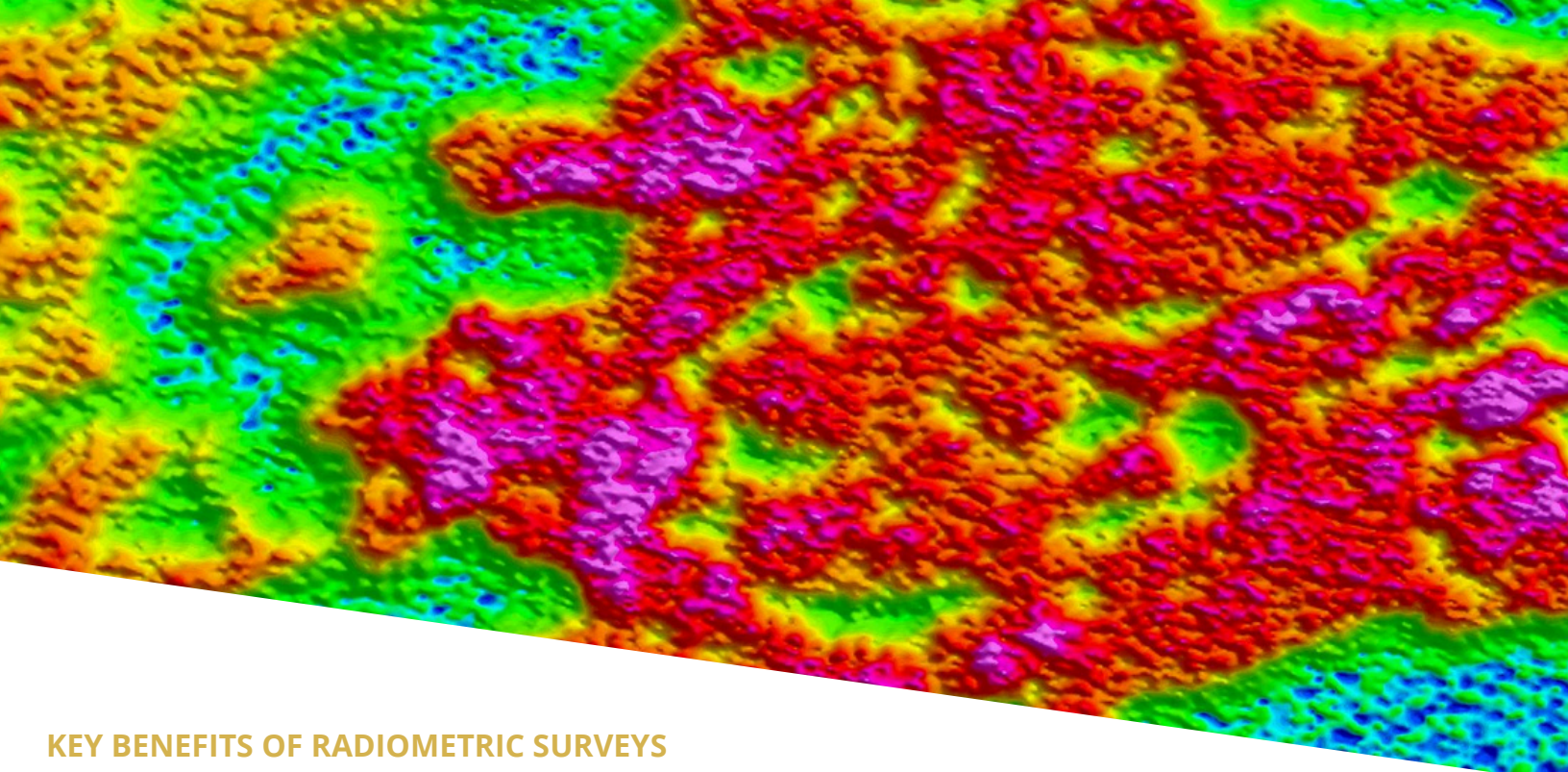
PROVEN TECHNOLOGY, ADAPTABLE SOLUTIONS

Our airborne radiometric surveys are designed to adapt to various terrains, delivering high-resolution surface data. By integrating radiometric data with geological mapping and other geophysical datasets, we enhance decision-making and project outcomes with a comprehensive view of the surface.

RADIOMETRIC SURVEYS SUPPORT A WIDE RANGE OF APPLICATIONS:

- **Mineral Exploration:** Map mineral sands, uranium, and rare earth elements. Our specialized techniques enhance uranium exploration by providing vital geochemical data for more informed decisions.
- **Geothermal Exploration:** Detect potassic alteration zones that indicate geothermal potential, helping identify valuable energy sources.
- **Geological Mapping:** Map and delineate lithological variations and paleodrainage systems, assisting in mineral, engineering, and water exploration.
- **Contamination Mapping & Detection:** Detect and map radioactive contaminants, including cesium-137 (^{137}Cs) and cobalt-60 (^{60}Co), particularly from military and industrial waste.
- **Emergency Response:** Support fallout and nuclear contamination response with precise radiometric data to assess the impact of radiological hazards.





KEY BENEFITS OF RADIOMETRIC SURVEYS

- **High-Resolution Data:** Achieve precise insights with advanced gamma-ray spectrometry systems, offering real-time data to guide exploration.
- **Accurate Mapping:** Effectively map mineral deposits, contamination sources, and geological formations with confidence.
- **Seamless Integration:** Integrate radiometric data with geological and geophysical datasets for comprehensive and actionable insights.
- **Flexible Deployment:** Adaptable for airborne surveys, ensuring optimal data collection across various terrains and project scales.

EXPLORE WITH CONFIDENCE

AXIOM GROUP's radiometric surveys offer your exploration projects precise data, expert interpretation, and reliable results. Our team is committed to delivering the insights you need to unlock the full potential of your exploration efforts.

TECHNICAL SPECIFICATIONS

Radiation Solutions RS-500 RSX-4

Type	4 x 4L NaI(Tl)
Channels	1024
Signal Processing	3.5" PMT, Divider Chain and Digital MCA housed in low noise Mu metal housing.
Energy Resolution	<8.5%
Energy Range	12 keV - 3 MeV
Sample Rate	0.1- 5 sec
Gain Stabilization	Automatic multi-peak using the natural occurring isotopes of U, K, and Th. < 0.5% peak drift.
Enclosure Material	Low attenuation carbon fiber allows greater sensitivities to all energies.
Operating Temp.	-20°C to +50°C
Protection	Incorporated thermal shock and vibration absorbing material.

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