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TechniCART™ Range Selection Guide

TechniCART™
High Performance



TechniCART™ II
Ultra-Mobile



UTV 600
Utility Vehicle



The **TechniCART™** product range is engineered to ingeniously adapt to support various types of detection & measurement equipment. The revolutionary design results in high performance, multi-detector, multi-terrain platforms that are rugged, affordable and ergonomically efficient.

TechniCART™ provides a high strength stainless steel frame accommodating payloads of up to 500 lb, with the option of accommodating two detectors at the same time using a base plate adapter. For users who wish ultra-portability with a single detector, the **TechniCART™ II** has a light weight aluminum frame that accommodates 200 lbs of equipment. Both models can be supplied with an extension arm that allows a vertical reach of 96 inches. An outrigger arm provides additional stability for extended heights

These platforms are specifically designed to allow rapid and easy transportation of an entire portable assay system including HPGE detector, shield and collimator together with laptop and acquisition electronics. The flat-free large caster wheels permit movement through warehouse, dirt and gravel type terrain.

TechniCART™ UTV 600 is a fully integrated motorized utility vehicle for nuclear materials detection. The system is uniquely suited to meet the needs of professionals in fields such as Portable Non-Destructive Assay, emergency response and homeland security. High resolution gamma identification is combined with He-3 neutron counting and dose measurement to alert operators to the presence of radioactive materials including uranium and plutonium within vehicles/containers in diverse locations.

Radiological mapping can be performed with the on-board GPS tracking capability. The system allows the operator to position the detector system beside a vehicle or container of interest and displays results to the operator on the onboard computer within seconds. This makes it quick and easy for operators to identify nuclear / radioactive materials in vehicles, containers and other suspect cargo without the need for an expert in the field.

Applications

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| <input checked="" type="checkbox"/> Portable Non-Destructive Assay | <input checked="" type="checkbox"/> Safeguards & accountancy |
| <input checked="" type="checkbox"/> Gamma Spectroscopy | <input checked="" type="checkbox"/> Homeland Security |
| <input checked="" type="checkbox"/> Waste Assay for transport & disposal | <input checked="" type="checkbox"/> Emergency Response |
| <input checked="" type="checkbox"/> Criticality safety | <input checked="" type="checkbox"/> Border Crossing Vehicle Checkpoints, |
| <input checked="" type="checkbox"/> TRU/LLW pre-sorting | <input checked="" type="checkbox"/> Mobile Border Patrols |
| <input checked="" type="checkbox"/> Uranium enrichment & Pu isotopic measurement | <input checked="" type="checkbox"/> Port Operations |

Features	<i>TechniCART™</i>	<i>TechniCART™ II</i>	<i>UTV 600</i>
Optimized for:	Portable Assay with Heavy Collimator / 1-2 HPGEs	Portable Assay with Light Collimator / 1 HPGE	Waste Screening & Homeland Security
Size:	L: 44", H: 57", W: 24 – 36"	L: 42", H: 75", W: 24 – 31"	L: 122", H 132", W: 56"
Adjustment height:	7 – 44" Extension arm: 83"	9 – 62" Extension arm: 102"	45 - 132"
Pan / Tilt:	Tilt +/- 180°	Tilt +/- 180°	Pan +/- 180° (30° steps) Tilt +0°(Horz) /- 90°(Vert)
Equipment:	HPGe (liquid nitrogen or mechanically cooled) and other detectors	HPGe (liquid nitrogen or mechanically cooled) and other detectors	HPGe (mechanically cooled), He-3 Neutron, Geiger Muller Tube
Capacity:	500 lbs gross. Max 125 lbs on extension arm	200 lbs gross. Max 100 lbs on extension arm	40 lbs gross (on slide mechanism)
Weight:	205 lbs with extension arm	180 lbs with extension arm	1700 lbs
Power:	Battery operated electronics	Battery operated electronics	Standard 110V with high performance rechargeable batteries; Gasoline Powered UTV
Options:	Adapters available to accept all major commercial HPGE detectors and measurement equipment. Base plate detector mount.	Adapters available to accept all major commercial HPGE detectors and measurement equipment.	Crew cab configuration; Folding Mast; Radiological mapping and source location identification; GPS Tracking; Real-time video display.

Contact

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