

	GPS Survey Equipment						
l	MANUFACTURER IMAGES	MANUFACTURER & MODEL	INSTRUMENT	DESCRIPTION	WEEKLY RATE	MONTHLY RATE	
1		GPS: Trimble Geo XT 6000 receiver Detector: Ludlum Model 2221/44-10 (2x2)	Trimble GPS Radiological Survey Data Collection System	Trimble GPS equipment coupled with a radiation detector for collecting geospatially referenced radiological survey and count rate data with sub meter accuracy. This rental Includes Trimble GPS data logger with Terrasyne Pro Software, Ludlum model 44-10, (2x2 NaI), Ludlum model 2221 with 1 second digital rate dump modification and 9 pin RS-232 connector, all associated cables and chargers.	\$485	\$1,750	
2		GPS: Trimble Pro XT, or XH, Bluetooth receiver with Trimble Nomad, Recon, Ranger, or TSC2, Data collector (based on preference and availability) Detector: Ludlum Model 2221/44-20 (3x3)	GPS Radiological Survey Data Collection System	Trimble GPS equipment coupled with a radiation detector for collecting geospatially referenced radiological survey and count rate data with sub meter accuracy. This rental Includes Trimble GPS asset surveyor unit, Trimble data logger with Terrasync Software, Ludlum model 44-20, (3x3 NaI) or equivalent, Ludlum model 2221 with 1 second digital rate dump modification and 9 pin RS-232 connector, antenna, receiver, backpack, all associated cables, charger, and waterproof hard case.	\$590	\$1,950	
3		GPS: Trimble Pro XT, or XH Bluetooth receiver with Trimble Nomad, Recon, Ranger, or TSC2, Data collector (based on preference and availability) Detector: Ludlum Model 2221/FIDLER (F)ield (I)nstrument for (D)etecting (L)ow (E)nergy (R)adiation	GPS Radiological Survey Data Collection System	Trimble GPS equipment coupled with a radiation detector for collecting geospatially referenced radiological survey and count rate data with sub meter accuracy. This rental Includes Trimble GPS asset surveyor unit, Trimble data logger with Terrasyne Software, FIDLER probe, Ludlum model 2221 with 1 second digital rate dump modification and 9 pin RS232 connector, receiver, backpack, all associated cables and charging electronics, and waterproof hard case.	\$710	\$2,300	
4		GPS: Trimble Pro XT, or XH, Bluetooth receiver with Trimble Nomad, Recon, Ranger, or TSC2, Data collector (based on preference and availability) Detector: Ludlum Model 2221/44-10 (2x2)	Trimble GPS Radiological Survey Data Collection System	Trimble GPS equipment coupled with a radiation detector for collecting geospatially referenced radiological survey and count rate data with sub meter accuracy. This rental Includes Trimble GPS unit, Trimble data logger with Trimble Terrasync Software, Ludlum model 44-10, (2x2 NaI) Ludlum model 2221 with 1 second digital rate dump modification and 9 pin RS-232 connector, antenna rod, backpack, all associated cables, charger, and waterproof hard case.	\$385	\$1,300	
5		GPS: Trimble Pro XT, or XH, Bluetooth receiver with Trimble Nomad, Recon, Ranger, or TSC2, Data collector (based on preference and availability) Detector: Ludlum Model 2221/44-20 (3x3)	GPS Radiological Survey Data Collection System	Trimble GPS equipment coupled with a radiation detector for collecting geospatially referenced radiological survey and count rate data with sub meter accuracy. This rental Includes Trimble GPS asset surveyor unit, Trimble data logger with Terrasync Software, Ludlum model 44-20, (3x3 NaI) or equivalent, Ludlum model 2221 with 1 second digital rate dump modification and 9 pin RS-232 connector, antenna, receiver, backpack, all associated cables, charger, and waterproof hard case.	\$490	\$1,700	
6		GPS: Trimble Pro XT, or XH Bluetooth receiver with Trimble Nomad, Recon, Ranger, or TSC2, Data collector (based on preference and availability) Detector: Ludlum Model 2221/FIDLER (F)ield (I)nstrument for (D)etecting (L)ow (E)nergy (R)adiation	GPS Radiological Survey Data Collection System	Trimble GPS equipment coupled with a radiation detector for collecting geospatially referenced radiological survey and count rate data with sub meter accuracy. This rental Includes Trimble GPS asset surveyor unit, Trimble data logger with Terrasync Software, FIDLER probe, Ludlum model 2221 with 1 second digital rate dump modification and 9 pin RS232 connector, receiver, backpack, all associated cables and charging electronics, and waterproof hard case.	\$600	\$1,900	
7		GPS: Trimble Pro XT, or XH Bluetooth receiver with Trimble Nomad, Recon, Ranger, or TSC2, Data collector (based on preference and availability) Detector: Exploranium GR -130 MiniSpec	GPS Radiological Survey Data Collection System with Nuclide Identifier, count rate, dose rate	Exploranium GR-130 coupled to a GPS for detailed mapping with sub meter accuracy. The GR-130 may be operated in 3 Primary Modes. Survey mode, displaying the current COUNT RATE in counts/sec. Dose mode, displays the current DOSE RATE (in selectable units and quantities) as well as ACCUMULATED DOSE. NUCLIDE IDENTIFICATION (ANALYSIS) mode analyses spectral data in terms of emitted energy and net count contribution and the nuclides are identified by comparison to a nuclide library. Rental includes, instrument computer cable, HP laptop with Spec view software, hard-shell waterproof case.	\$400	\$1,400	
8		GPS: CF-30 Panasonic Toughbook Laptop, Trimble Pro XT or XH Bluetooth GPS receiver with Detector: Ludlum Model 2221/44-10 (2x2)	GPS Radiological Survey Data Collection System	Trimble GPS equipment for collecting geospatially referenced survey and count rate data. This rental Includes Trimble GPS Pro XT Bluetooth unit, which transmits directly to a Panasonic CF-30 Toughbook laptop with a 13.3 inch touchscreen. The Toughbook comes with TerraSync software installed, waterproof, freeze proof, shock proof	\$650	\$1,880	



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•		GPS: Receiver Trimble Pro XT or XH Bluetooth GPS receiver with Data logger: Trimble Recon, Ranger, Nomad or TSC2 (based on preference and availability)	GPS Survey System Bluetooth	Trimble GPS equipment for collecting geospatially referenced survey and count rate data. This rental Includes Trimble GPS asset surveyor unit, TSCe data logger with Trimble Terrasync Software, antenna, receiver, backpack, all associated cables and charging electronics, and waterproof hard case.	\$350	\$990
•		GPS: Trimble Pro XT Bluetooth with CF-30 Panasonic Toughbook Laptop	GPS Survey System Bluetooth	Trimble GPS equipment for collecting geospatially referenced survey and count rate data. This rental Includes Trimble GPS Pro XT Bluetooth unit, which transmits directly to a Panasonic CF-30 Toughbook laptop with a 13.3 inch touchscreen. The Toughbook comes with TerraSync software installed, waterproof, freeze proof, shock proof.	\$350	\$1,200
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			р	Detection Instruments		
	MANUFACTURER IMAGE	MANUFACTURER & MODEL	INSTRUMENT	DESCRIPTION	WEEKLY RATE	MONTHLY RATI
		Ludlum Model 12	Survey Rate meter	General purpose survey meter compatible with several probes. Measures count rates, has an adjustable high voltage (HV) and threshold.	\$40	\$75
-		Ludlum Model 177	Alarming Rate meter	Stationary meter, typically used with 44-9 GM detector or alpha probe at CRZ frisking station or other table top applications. Uses 110V power supply.	\$30	\$80
		Ludlum Model 19	Micro-R Survey Meter	Used to collect dose rate, gamma ray exposure measurements. (0 - 5mR/hr.)	\$70	\$150
		Ludlum Model 2221	Digital Rate meter/ Scaler	Single channel analyzer, general survey meter compatible with multiple probes, measures count rates. Has a digital and analog display as well as adjustable count time and HV.	\$70	\$230
		Ludlum Model 2221 -RS232	Digital Rate meter/ Scaler	Used for data collection and pairing with GPS and other data logging devices. Single Channel Analyzer, General survey meter compatible with several probes measures count rates. Has a digital and analog display as well as adjustable count time and HV. Also includes an RS232 com 9 pin serial port mounted on the bucket- 1 second data dump to digital rate board.	\$100	\$250
		Ludlum Model 2224	Digital Scaler/Rate meter Alpha/Beta	Digital rate meter capable of discriminating between alpha and beta when paired with proportional or phoswhich detectors.	\$75	\$150
		Ludlum Model 2241	Digital Scaler/Rate meter	Digital rate meter capable of discriminating between alpha and beta when paired with proportional or phoswhich detectors.	\$45	\$120
		Ludlum Model 2360	Digital Scaler/Rate meter	Data collector capable of discriminating between alpha and beta when used with phoswhich detector. Capable of continuous data dump to RS-232, 9 pin Comport and/or logging and storing over data points internally.	\$60	\$150
		Ludlum 2350-1/Key pad	General Purpose Data Logger	general purpose Model 2350-1 advanced ratemeter / scaler / data logger, designed to satisfy a wide range of applications. large backlit LCD presents bar graphs, digital readings, and logged data on an 8-line by 15-character display. Up to 1000 data points can be stored, along with the location, date/time stamp, detector, count mode, count time, logging mode, and sample number.	\$75	\$250
		Eberline E600	Multipurpose Survey Meter	The E-600 can memorize up to three configurations for any given probe, permitting a single probe to be set up and operated in different ways. For alpha/beta monitoring applications this allows switching between the alpha, beta and alpha + beta monitoring channels. Each channel automatically adjusts the thresholds, alarm settings, response times.	\$70	\$200
	1	Eberline R0-20	Portable Ion Chamber Radiation Survey Meter	The RO-20 AA is a portable air ionization chamber instrument, used to detect beta, gamma, and x-radiation, with five linear ranges of operation to measure exposure from background to 50 R/h full scale	\$80	\$175



22		Ludlum Model 2929	Alpha/Beta Sample Counter	Dual channel analyzer capable of discriminating between alpha and beta. Stationary table top instrument requires standard 110v power supply. Typically paired with Ludlum 44-10-1 tray counter.	\$110	\$320
23		Ludium Model 3030	Alpha/Beta Sample Counter	Dual channel analyzer capable of discriminating between alpha and beta. Has a shielded internal counting tray, programmable, and PC compatible Stationary table top instrument requires standard 110v power supply. Includes 10 planchetts.	\$120	\$380
24		Thermo Scientific	Alpha/Beta Sample Counter	The RadEye HEC is a sample counting system that provides simultaneous alpha and beta measurements. The system incorporates a 2" (5 cm) dual scintillation phosphor mated to a sliding drawer accommodating a 2" (5 cm) diameter sample. Readings are automatically logged for later retrieval to a PC.	\$140	\$390
25	E STATE	Ludlum Model 2401-P	G-M Probe Pancake	Meter and probe housed in one small aluminum casing. Internal G-M tube (15 cm2 active area) with opening used for alpha, beta/gamma survey. Includes belt case	\$50	\$90
26		Bicron RSO 50E	Beta/Gamma/Ion Chamber	Bicron (Thermo) Beta gamma survey meter. Has beta window in bottom of the bucket for easy beta detection.	\$90	\$200
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				Probes/Detectors		
ľ	MANUFACTURER IMAGE	MANUFACTURER & MODEL	Detection	DESCRIPTION	WEEKLY RATE	MONTHLY RATE
27	W	Ludlum 44-10	Gamma Probe	2"x2" Sodium Iodide (NaI) probe with gamma scintillator used for high energy gamma surveys.	\$40	\$100
28		Ludium 44-20	Gamma Probe	3"x3" Sodium Iodide NaI probe with gamma scintillator used for high energy gamma surveys.	\$160	\$430
29		FIDLER	Low Energy Gamma Probe	(F)ield (I)nstrument for (D)etecting (L)ow (E)nergy (R)adiation. 5 " NaI scintillator for the detection of low energy Gamma	\$250	\$600
30		Ludlum 43-5	Alpha Probe	alpha probe with 76 cm2 active surface area, typically used for personnel scans and surface contamination monitoring .	\$40	\$60
31		Ludlum 43-89	Alpha/Beta Probe	Probe capable of discriminating between alpha and beta, 126 cm2 active area Mylar window, typically used for surface contamination monitoring.	\$75	\$125
32		Ludlum 43-93	Alpha/Beta Phoswhich Probe	Probe capable of discriminating between alpha and beta, 100 cm2 active area Mylar window, typically used for surface contamination monitoring.	\$50	\$110
33		Ludlum 44-2	Gamma Probe	Sodium Iodide (NaI) 1" diameter x 1" thick gamma scintillation detector	\$40	\$75
34		Ludium 44-62	Gamma Probe	Sodium Iodide (NaI) 1/2" diameter x 1" thick gamma scintillation detector	\$40	\$75
35		Ludium 44-9	Alpha/beta/gamma	Geiger Meuler G-M tube housed in an aluminum ergonomic probe, (15 cm2 active area) used for alpha, beta/gamma survey and personnel scans.	\$30	\$50
36	10	Ludlum 43-68, Gas proportiona	Alpha/beta	Ludlum Model 43-68, Model 43-68/1 and Model 43-68/2 are gas proportional detectors, with an open window area of 100 cm2. They are designed for alpha and beta survey and are compatible with a number of counting instruments. P-10 gas and regulator not included with rental.	\$40	\$75
37		Ludlum 239-1F, Gas Porportional	Alpha/beta	Floor Monitor Cart, Gas Proportional Probe, and Ludlum 2221 or 2360 Detector. Gas proportional (582cm2 active area) used for floor / surface contamination monitoring. Requires P-10 gas. Includes meter, probe cart and regulator. User must provide P-10 gas cylinder not included with rental.	\$300	\$980



38	Image not Available	Bicron/ Saint Gobain BC412	Gamma Probe	3x3 equivalent. Scintillator uses a Bicron/Saint-Gobain BC412 Polyvinyl Toluene & Organic Fluors (Plastic) Scintillation Crystal for Gamma Radiation Detection. The crystal 3 inch diameter by 2-1/4 thick, polished on all sides and coated with a specially formulated reflective coating before coupling to the PMT. The PMT is a high quality Photonis XP5312 3" Photomultiplier Tube, and includes a 130 MegOhm dynode chain	\$50	\$125
39	Image not Available	Scionix Holland 38B57 1.5M NaI(TI) Thallium doped	Gamma Probe, Gamma spec	Thallium doped Sodium Iodide NaI(Tl) Scintillation Crystal 57mm Long (2-1/4 inch) by 38mm diameter (1-1/2 inch) and able to respond to a wide range of energies. The PMT used in this detector is a high quality Hamamatsu R980 Photomultiplier Tube, and includes a newly installed 120 MegOhm dynode chain. Grounded Mu-Metal shield surrounding the PMT itself. Crystal has 5 times the volume of a Ludlum 44-2	\$60	\$90
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	Multi Channel Analyzers					
	MANUFACTURER IMAGE	MANUFACTURER & MODEL	INSTRUMENT	DESCRIPTION	WEEKLY RATE	MONTHLY RATE
40		Canberra Osprey	Multi Channel Analizer (MCA)	The Osprey is a high-performance, fully-integrated multi-channel analyzer (MCA) tube base that contains everything needed to support scintillation spectrometry. Designed for both laboratory and field use, this one compact unit contains a high-voltage power supply (HVPS), preamplifier and a full-featured digital MCA. Osprey can be controlled through either USB or Ethernet with no need to purchase two separate units – an industry first. USB or Ethernet, there is only one cable connecting the Osprey to the control and data acquisition system.	\$1,260	\$3,980
41		Thermo Fisher Scientific	RIIDEye X Series: Handheld Radio-Isotope Identification	The RIIDEye X enables the user to find and identify the exact isotope and precise dose-rate of any radioactive material and plan the next course of action. Its patented Quadratic Compression Conversion (QCC) technology along with the large scintillation detector provides the industry's fastest, most accurate, real-time gamma source isotopic identifications. All in an easy-to read, full spectrum color coded format	\$1,300	\$3,900
42		Exploranium GR -130 MiniSpec	Multi Channel Analizer, Nuclide Identifier, count rate, dose rate	GR-130 may be operated in 3 Primary Modes. Survey mode as a scintillometer, or Survey Meter, displaying the current COUNT RATE in counts/sec. Dose mode displays the current DOSE RATE (in selectable units and quantities) as well as ACCUMULATED DOSE from the time the mode was enabled. NUCLIDE IDENTIFICATION (ANALYSIS) mode analyses spectral data in terms of emitted energy and net count contribution and the nuclides are identified by comparison to a nuclide library. Instrument has an RS232 output cord and can be coupled to a computer or GPS. Rental includes, instrument computer cable, HP laptop with Spec view software, hard-shell waterproof case.	\$300	\$600
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			Air	Monitoring Equipment		
	MANUFACTURER IMAGE	MANUFACTURER & MODEL	INSTRUMENT	DESCRIPTION	WEEKLY RATE	MONTHLY RATE
13		F & J DL28B	Digital Air Sampling system	The F & J Model DL-28BV.2 Air Sampling System is a microprocessor controlled low volume air sampler consisting of an ¼ H.P The pump is mounted within a weather resistant aluminum environmental enclosure having four rubber feet. Handles are provided on the enclosure to facilitate transportation. It utilizes wide temperature range electronic components for use in extreme ambient conditions. The DL-28BV.2 is designed for continuous indoor or outdoor use. The typical operating flow range is 0.5 to 4 CFM (14 – 115 LPM)	\$90	\$250
14		F & J Model LV-1	Low Volume Air Sampler	low volume portable air sampler designed for continuous indoor use. Adjustable flow range 10 -100LPM. Can be used outdoors if protected from the elements. Unit comes with a 47mm filter holder.	\$75	\$125
45		Thermo Fisher Scientific PDR- 1000AN Monitor	Passive, real-time, personal aerosol monitor/datalogger	Thermo Scientific personal DataRAM pDR-1000AN Monitor is a passive sampling, light-scattering nephelometer that measures real-time mass concentrations of dust, smoke, mists, and fumes in industrial as well as other indoor and outdoor environments	\$75	\$175
46		SKC Aircheck 224-PC3	Universal sample pump.	Universal Sample Pump, breathing Zone (BZ), Lapel Air Samplers a constant flow (from 5 to 5000 ml/min). Charger, tigon tubing, sampler holder included	\$40	\$100



47		SKC Aircheck 224-PCXR3	Universal sample pump.	Universal Sample Pump, breathing Zone (BZ), Lapel Air Samplers a constant flow (from 5 to 5000 ml/min). Charger, tigon tubing, sampler holder included	\$45	\$100
48		SKC Aircheck 224-PCXR4	Universal sample pump.	Universal Sample Pump, breathing Zone (BZ), Lapel Air Samplers a constant flow (from 5 to 5000 ml/min). Charger, tigon tubing, sampler holder included	\$45	\$100
49	Topological Control of the Control o	SKC Aircheck 52 Model 224-52	Universal sample pump.	Lightweight universal Sample Pump, breathing Zone (BZ), Lapel Air Sampler.  Battery pack, tigon tubing, sampler holder included.	\$25	\$60
50		Q- Rea Multi-gas Monitoring Kit	Multi gas Monitoring Kit	Hand-held Portable Multi-gas chemical exposure monitor. Includes four internal sensors (oxygen, combustible, hydrogen sulfide, and carbon monoxide). Eight hour runtime on internal Li ion battery, includes AA adapter. Rental includes meter, software, all cables and charge cords, filters, operating manuals and hard-shell carrying case.	\$150	\$450
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	MANUFACTURER IMAGE	MANUFACTURER & MODEL	INSTRUMENT	DESCRIPTION	Purchase Price	MONTHLY RATE
51		Lead Shield, Collimator	N/A	Lead shield used with Ludlum Model 44-10.	N/A	\$50
52		Torch set	N/A	Torch set includes torch, gauges, hoses, tips, cleaner, striker, goggles, portable case. Oxygen and acetylene tanks not included with rental.	N/A	\$75
53		Survey trike	N/A	Trike used for GPS surveys, fixed wheel with canopy	\$50	\$100
54		Sampling auger	N/A	"T" handle, 3' shaft extension, and 3" diameter sampling auger head	\$100	\$200
55	Image not Available	Sampling push probe	N/A	"T" handle, shaft extension, and sampling push probe head	\$50	\$100
56		Carbon Fiber Survey Rod	N/A	2 piece carbon fiber survey rod with level bubble, antenna mount, and clamp on Data logger clamp.	\$25	\$75
57	33	47mm Planchetts	N/A	Tray counter planchetts 47mm. Package of 100.	\$50	N/A
58	Image not Available	Smear samples	N/A	47 mm , 1 3/4" diameter cloth smears mounted on label folders. Box of 500.	\$75	N/A
59	Image not Available	SKC 37mm Air filter cassette	N/A	3 piece metal cartridge, pre loaded, pre banded, 37mm air filter. Package of 5.	\$50	N/A
60	Image not Available	37mm Air filter	N/A	37mm glass fiber filter media. Box of 100.	\$50	N/A
61	Image not Available	37mm Air filter cartridge	N/A	Plastic cartridge to hold 37mm air filter, typically used for BZ/lapel sample collection. Package of 10.	\$50	N/A
62	Image not Available	47mm Air filter	N/A	47mm Glass Fiber Filter. Box of 100.	\$50	N/A
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	Specialty Equipment						
	MANUFACTURER IMAGE	MANUFACTURER & MODEL	INSTRUMENT	DESCRIPTION	Rates		
63		Inspection Robots and Crawlers	Various models	Tracked robot platform and is equipped with 32mm motors, a motor controller, and Spektrum remote control. This is a rugged treaded robot platform. The robot handles several pounds of additional payload. Can be fit with various detector syastms for many applications	Call for quotes and information		
64		Radiation Systems, RS-700	RS-700 Mobile Radiation Monitoring System	The RS-700 system is designed for use on land and in the air. Mounted on an SUV or other land vehicle, the RS-700 can quickly scan cars, trucks, cargo containers and railcars, buildings and surrounding spaces, urban and rural disaster sites, vehicle routes and other areas. Mounted on a manned or unmanned aircraft, the RS-700 can survey and map large urban or rural areas quickly and automatically	Call for quotes and information		
65	THE STATE OF THE S	Inspection UAV- DJI, Yunec	Various models	Drone (or UAV/UAS) technology suits a myriad of conservation and environmental protection applications offering quick, easy and cost-effective aerial imagery and survey capabilities on demand. in place of terrestrial surveying equipment or traditional aerial imaging services. Can be launched on demand.	Call for quotes and information		
66			ISOCS (In Situ Object Counting System) Various models	Able to utilize the sensitivity and low background capabilities of a laboratory grade germanium spectrometer directly on site, regardless of where that site is located. Unshielded, the detector has a nearly 360° field of view, and can be used for counting of the walls/floors/contents of an entire room or container. The field of view can be reduced by adding the shield and collimators to provide fields of view of 30°, 90°, and nearly 180°.	Call for quotes and information		

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Monthly rental period is defined as 28 calendar days (4 -7 day- weeks).

Additional days beyond a monthy rate will be billed at a daily rate equal to 1/28.

For extended rental duration, please contact for special pricing

## Shipping

All shipping charges will be billed to client.

Equipment must be insured with shipper at replacement value

## Equipment loss or damage

Lost equipment will be charged at current manufacturer purchase price.

Repair charges will be billed to client plus the overhead expenses.

Excessively dirty equipment (paint, marker, etc.) may incur cleaning or component replacement charges.

Rental duration may continue while equipment is at repair facility.

Contaminated equipment will be returned to client and rental duration will resume.



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