



Rental Equipment Price List

GPS Equipment				
MANUFACTURER & MODEL	INSTRUMENT	DESCRIPTION	WEEKLY RATE	MONTHLY RATE
GPS: Trimble Pro XRS with TSCe Data collector Detector: Ludlum Model 2221/44-10 (2x2)	GPS Radiological Survey Data Collection System	Trimble GPS equipment coupled with a radiation detector for collecting geospatially referenced survey and count rate data with sub meter accuracy. This rental Includes Trimble GPS asset surveyor unit, TSCe data logger with Trimble Terrasync Software, Ludlum model 44-10, Ludlum model 2221 with 1 second digital rate dump modification and 9 pin RS232 connector, antenna, receiver, backpack, all associated cables and charging electronics, and waterproof hard case.	\$550	\$2,000
GPS: Trimble Pro XRS with TSC Data collector 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 survey and count rate data with sub meter accuracy. This rental Includes Trimble GPS asset surveyor unit, TSCe data logger with Trimble Terrasync Software, Ludlum model 44-10, Ludlum model 2221 with 1 second digital rate dump modification and 9 pin RS232 connector, antenna, receiver, backpack, all associated cables and charging electronics, and waterproof hard case.	\$800	\$2,400
GPS: Trimble Pro XRS with TSCe Data collector Detector: Ludlum Model 2221/FIDLER (F)ield (I)nsstrument for (D)etecting (L)ow (E)nergy (R)adiation	GPS Radiological Survey Data Collection System	Trimble GPS equipment coupled with a radiation detection for collecting geospatially referenced survey and countrate data with sub meter accuracy. This rental Includes Trimble GPS asset surveyor unit, TSCe data logger with Trimble Terrasync Software, FIDLER probe, Ludlum model 2221 with 1 second digital rate dump modification and 9 pin RS232 connector, antenna, receiver, backpack, all associated cables and charging electronics, and waterproof hard case.	\$800	\$2,700
GPS: Trimble Pro XRS with TSCe Data collector Detector: Exploranium GR -130 MiniSpec	GPS Radiological Survey Data Collection System with 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 Specview software, hardshell waterproof case.	\$800	\$2,500
GPS: Trimble Pro XT Bluetooth with TSC2 Data collector Detector: Ludlum Model 2221/44-10 (2x2)	GPS Radiological Survey Data Collection System	Trimble GPS equipment coupled with a radiation detector for collecting geospatially referenced survey and count rate data with sub meter accuracy. This rental Includes Trimble GPS asset surveyor unit, TSCe data logger with Trimble Terrasync Software, Ludlum model 44-10, Ludlum model 2221 with 1 second digital rate dump modification and 9 pin RS232 connector, antenna, receiver, backpack, all associated cables and charging electronics, and waterproof hard case.	\$650	\$2,300
GPS: Trimble Pro XT Bluetooth with TSC 2 Data collector 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 survey and count rate data with sub meter accuracy. This rental Includes Trimble GPS asset surveyor unit, TSCe data logger with Trimble Terrasync Software, Ludlum model 44-10, Ludlum model 2221 with 1 second digital rate dump modification and 9 pin RS232 connector, antenna, receiver, backpack, all associated cables and charging electronics, and waterproof hard case.	\$725	\$2,700
GPS: Trimble Pro XT Bluetooth with TSC2 Data collector Detector: Ludlum Model 2221/FIDLER (F)ield (I)nsstrument for (D)etecting (L)ow (E)nergy (R)adiation	GPS Radiological Survey Data Collection System	Trimble GPS equipment coupled with a radiation detection for collecting geospatially referenced survey and countrate data with sub meter accuracy. This rental Includes Trimble GPS asset surveyor unit, TSCe data logger with Trimble Terrasync Software, FIDLER probe, Ludlum model 2221 with 1 second digital rate dump modification and 9 pin RS232 connector, antenna, receiver, backpack, all associated cables and charging electronics, and waterproof hard case.	\$800	\$3,000
GPS: Trimble Pro XRS with TSCe Data collector	GPS Survey System	Trimble GPS equipment for collecting geospatially referenced survey and countrate 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.	\$400	\$1,400
GPS: Trimble Pro XT Bluetooth with CF- 30 Panasonic Toughbook	GPS Survey System bluetooth	Trimble GPS equipment for collecting geospatially referenced survey and countrate 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, wtaerproof, freeze proof, shock proof	\$400	\$1,400



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GPS: Trimble Pro XT with TSC2 Data collector	GPS Survey System bluetooth	Trimble GPS equipment for collecting geospatially referenced survey and count rate data. This rental includes Trimble pocket Pathfinder receiver, Recon data logger with Trimble Terrasync Software, antenna, receiver, backpack, all associated cables and charging electronics, and waterproof hard case.	\$400	\$1,700
GPS: Trimble Pocket Pathfinder with Recon Data collector	GPS Survey System	Compact Trimble GPS equipment for collecting geospatially referenced survey and count rate data. This rental includes Trimble pocket Pathfinder receiver, Recon data logger with Trimble Terrasync Software, antenna, receiver, backpack, all associated cables and charging electronics, and waterproof hard case.	\$100	\$250
Prices correct as of September 2016				



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Instruments				
MANUFACTURER & MODEL	INSTRUMENT	DESCRIPTION	WEEKLY RATE	MONTHLY RATE
Exploranium GR -130 MiniSpec	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 Specview software, hardshell waterproof case	\$300	\$900
Ludlum Model 12	Survey Ratemeter	General purpose survey meter compatible with several probes. Measures countrates, has an adjustable high voltage (HV) and threshold.	\$50	\$100
Ludlum Model 177	Alarming Ratemeter	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.	\$50	\$100
Ludlum Model 19	Micro-R Survey Meter	Used to collect dose rate, gamma ray exposure measurements. (0 - 5mR/hr)	\$50	\$150
Ludlum Model 2221	Digital Ratemeter/ Scaler	Single channel analyzer, general survey meter compatible with multiple probes measures countrates. Has a digital and analog display as well as adjustable count time and HV.	\$70	\$235
Ludlum Model 2221 -RS232	Digital Ratemeter/ 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 countrates. 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.	\$90	\$275
Ludlum Model 2224	Digital Scaler/Ratemeter Alpha/Beta	Digital ratemeter capable of discriminating between alpha and beta when paired with proportional or phoswich detectors.	\$75	\$150
Ludlum Model 2241	Digital Scaler/Ratemeter	Digital ratemeter capable of discriminating between alpha and beta when paired with proportional or phoswich detectors.	\$75	\$150
Ludlum Model 2929	Digital Scaler/Ratemeter	Dual chanel 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.	\$120	\$320
Ludlum Model 2360	Digital Scaler/Ratemeter	Data collector capable of discriminating between alpha and beta when used with phoswich detector. Capable of continuous data dump to RS 232 9 pin Com port and or logging and storing over data points internally.	\$90	\$190
Ludlum Model 2401-P	G-M Probe Pancake	Meter and probe housed in one small aluminum housig. Internal G-M tube (15 cm2 active area) with opening used for alpha, beta/gamma survey. Includes belt case	\$90	\$120
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.	\$110	\$300
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Radiation Detectors				
MANUFACTURER & MODEL	Detection	DESCRIPTION	WEEKLY RATE	MONTHLY RATE
FIDLER	Low Energy Gamma Probe	(F)ield (I)nsstrument for (D)etecting (L)ow (E)nergy (R)adiation. 5 " NaI scintillator for the detection of low energy Gamma	\$300	\$800
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 Photons XP5312 3" Photomultiplier Tube, and includes a 130 MegOhm dynode chain Probe Dimensions: Length: ~7.75 inches - 195 mm (including BNC connector), Diameter: ~3 inches - 78 mm, Weight: ~1 lb 4 oz - 550 grams	\$100	\$300
Ludlum 239-1F	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.	\$350	\$700
Ludlum 43-5	Alpha Probe	alpha probe with 76 cm2 active surface area, typically used for personnel scans and surface contamination monitoring .	\$40	\$55
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
Ludlum 43-93	Alpha/Beta Phoswich Probe	Probe capable of discriminating between alpha and beta, 100 cm2 active area mylar window, typically used for surface contamination monitoring.	\$100	\$150
Ludlum 44-10	Gamma Probe	2"x2" Sodium Iodide (NaI) probe with gamma scintillator used for high energy gamma surveys.	\$40	\$75
Ludlum 44-20	Gamma Probe	3"x3" Sodium Iodide NaI probe with gamma scintillator used for high energy gamma surveys.	\$300	\$500
Ludlum 44-2	Gamma Probe	Sodium Iodide (NaI) 1" diameter x 1" thick gamma scintillation detector	\$40	\$75
Ludlum 44-62	Gamma Probe	Sodium Iodide (NaI) 1/2" diameter x 1" thick gamma scintillation detector	\$40	\$75
Ludlum 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	\$40
Ludlum Model 2401-P	Alpha/beta/gamma	Meter and probe housed in one small aluminum housig. Internal G-M tube (15 cm2 active area) with opening used for alpha, beta/gamma survey. Includes belt case	\$90	\$120
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	\$130
Scionix Holland 38B57 1.5M NaI(Tl) 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

Prices correct as of September 2016



Rental Equipment Price List

<div>  Miscellaneous  </div>				
MANUFACTURER & MODEL	INSTRUMENT	DESCRIPTION	WEEKLY RATE	MONTHLY RATE
F & J DL28B	Digital Air Sampling system	The Model DL-28BV.2 Air Sampling System is a microprocessor controlled low volume air sampler consisting of an ¼ H.P. oil-less carbon vane vacuum pump with a constant air flow regulator for use where a nearly constant air flow is desirable. The pump is mounted on a base plate 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 Air Sampling System is designed for continuous indoor or outdoor use. The typical operating flow range is 0.5 to 4 CFM (14 – 115 LPM)	\$300	\$500
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
SKC Aircheck 224-PC3	Universal sample pump.	Universal Sample Pump, breathing Zone (BZ), Lapel Air Sampler is a constant flow (from 5 to 5000 ml/min). Charger, tygon tubing, sampler holder included	\$125	\$250
SKC Aircheck 224-PCXR3	Universal sample pump.	Universal Sample Pump, breathing Zone (BZ), Lapel Air Sampler is a constant flow (from 5 to 5000 ml/min). Charger, tygon tubing, sampler holder included	\$90	\$175
SKC Aircheck 224-PCXR4	Universal sample pump.	Universal Sample Pump, breathing Zone (BZ), Lapel Air Sampler is a constant flow (from 5 to 5000 ml/min). Charger, tygon tubing, sampler holder included	\$100	\$200
SKC Aircheck 52 Model 224-52	Universal sample pump.	Lightweight universal Sample Pump, breathing Zone (BZ), Lapel Air Sampler is a constant flow. Battery pack, tygon tubing, sampler holder included	\$75	\$90
Prices correct as of September 2016				
<div>  Sources  </div>				
MANUFACTURER & MODEL	INSTRUMENT	DESCRIPTION	WEEKLY RATE	MONTHLY RATE
Thorium- Th-230 Source	Electroplated Source Disk (alpha)	(DOT) Title 49 CFR 170.436 Exempt quantity	\$50	\$100
Technesium- Tc-99 Source	Electroplated Source Disk (Beta)	(DOT) Title 49 CFR 170.436 Limited quantity	\$50	\$100
Cesium- Cs-137 Source	Embossed Button Source (Gamma)	(DOT) Title 49 CFR 170.436 Exempt quantity	\$50	\$100
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Miscellaneous				
MANUFACTURER & MODEL	INSTRUMENT	DESCRIPTION	Purchase Price	MONTHLY RATE
Lead Shield, Collimator	N/A	Lead shield used with Ludlum Model 44-10.	N/A	\$50
Smear samples	N/A	47 mm , 1 3/4" diameter cloth smears mounted on label folders. Box of 500.	\$75	N/A
37mm Air filter	N/A	37mm glass fiber filter media. Box of 100.	\$50	N/A
37mm Air filter cartridge	N/A	Plastic cartridge to hold 37mm air filter, typically used for BZ/apel sample collection. Package of 10.	\$50	N/A
47mm Air filter	N/A	47mm Glass Fiber Filter. Box of 100.	\$50	N/A
47mm Planchetts	N/A	Tray counter planchets 47mm. Package of 100.	\$50	N/A
SKC 37mm Air filter cassette	N/A	3 piece metal cartridge, pre loaded, pre banded, 37mm air filter. Package of 5.	\$50	N/A
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	\$150
Survey trike	N/A	Trike used for GPS surveys, fixed wheel with canopy	\$50	\$100
Sampling auger	N/A	"T" handle, 3' shaft extension, and 3" diameter sampling auger head	\$100	\$250
Sampling push probe	N/A	"T" handle, shaft extension, and sampling auger head	\$50	\$100

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Terms and Conditions



Rental

Weekly rental period is defined as 7 calendar days.

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

After 28 days equipment is charged at a prorated daily rate equal to the monthly rate divided by 28 days.

Rental duration begins the date equipment leaves the NOE office of origin and stops the date equipment arrives back at the NOE office of return.

Shipping

All shipping charges will be at lessees expense

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 passed on to lessee at actual costs.

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.

As of June 2016