



miniDOSE

A compact and colorful
personal electronic dosimeter,
your family can use everyday.



The miniDOSE is an easy-to-use electronic personal dosimeter that records X-ray and/or Gamm radiation dose accumulated every day with built-in datalogging and micro-USB communication to a computer. You can conveniently monitor your personal radiation exposures on a daily, weekly, monthly and yearly basis.

SPECIFICATIONS

Detector	CsI+Photodiode
Dose Range	Hp(10):0.01uSv to 10Sv
Dose Rate Range	Hp(10):0.01uSv/h to 2mSv/h
Dose Accuracy	$\pm 0.1\text{uSv}$ or $\pm 15\%$, whichever is greater (for ^{137}Cs)
Energy Response	X, gamma: from 50keV to 3MeV
Dimensions	~68x57x31mm
Weight	$\leq 65\text{g}$
Operating Range	Temperature: -20 Deg.C to 50 Deg.C Humidity: <95% R.H non-condensing
Battery	1 AAA battery, 700 hours typical life
Data Communication	Data download, firmware upgrade and radiation calibration via micro-USB
Recommended Valid Calibration Period	2 Years

*Specifications are subject to change without notice.



KEY FEATURES

- Sensitive CsI scintillation detector
- Powered by one AAA battery
- Data communication via micro-USB
- Accumulated dosage of 0.01uSv to 10Sv
- View dose per Day, Week, Month and Year
- Datalog of dose accumulated every day
- Dose rate of 0.01uSv/h to 2mSv/h

STANDARD KIT INCLUDES:

- miniDOSE Unit
- User Instruction
- miniREC Software CD
- Micro-USB Cable
- Protective Silicone Case
- Lanyard
- Calibration Certificate

ORDERING INFORMATION (MODEL PRM-3021)

Product	Part Number
Kit, miniDOSE, Red, RRM-1100	R01-D011-000
Kit, miniDOSE, Orange, PRM-1100	R01-D012-000
Kit, miniDOSE, Green, PRM-1100	R01-D013-000
Kit, miniDOSE, Blue, PRM-1100	R01-D014-000
Kit, miniDOSE, Purple, PRM-1100	R01-D015-000

CORPORATE HEADQUARTERS

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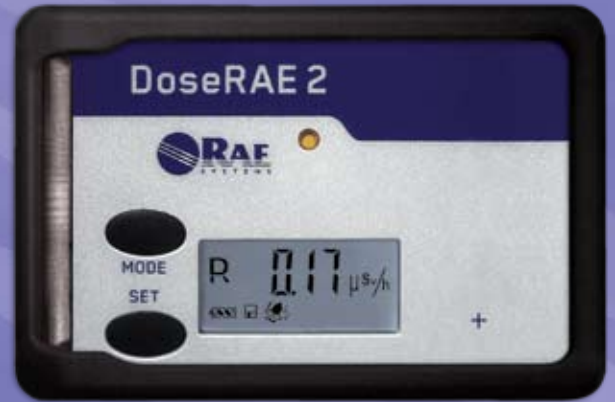


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DoseRAE 2

Electronic Dosimeter for
Personal Radiation Dosage Monitoring



DoseRAE 2 is a compact, direct-reading and alarming electronic personal radiation detector. It uses a diode and a scintillation crystal to detect X- and gamma radiation, and provides real-time monitoring of personal dose and dose rate. The real-time radiation dose rate monitoring allows immediate reaction in case of radiation occurrences and thus reduces the radiation exposure. By measuring dose equivalent and dose equivalent rate, this detector provides the functions of a dosimeter too. It also measures radiation exposure and exposure rate, which is appropriate for controlling the exposure of emergency responders to photon radiation.

KEY FEATURES

- Stand-alone electronic dosimeter with LCD display
- Multiple units with reader and software can be used as a dosimetry system
- Continuous digital dose rate readout in rem/h, Sv/h and R/h
- Continuously accumulated total dose readout in rem, Sv and R
- Prominent visible, audible, and vibration alarms
- Long calibration life
- Two operation keys, simple intuitive programming

APPLICATIONS

- Nuclear power plants
- Environmental survey
- Fire Departments
- Hazardous Material Response Teams
- Police
- EMS
- Military
- Hospitals

- **Dosimeter Meets Detector:**
Contains two separate sensors, CsI/photodiode and PIN diode. The energy-compensated PIN diode provides high-dose-rate range coverage and accurate dose measurements, while the CsI (Cesium Iodide) scintillator provides fast response to low-level radiation.
- **Datalogging and Analysis:**
DoseRAE 2 offers continuous datalogging with a large, 3,000-point datalog capacity. With associated software, the datalog can be downloaded via USB to a computer. This software is used for data display, analysis and record management.
- **Alarm Types:**
Integrated loud audible, bright LEDs, and vibration alarms.
- **Total Dose Data:**
Accurately accumulates real-time dose data.
- **National Standard Compliance:**
DoseRAE 2 was designed in compliance with IEEE ANSI N42.20 standard, and the performance was tested at Oak Ridge National Laboratory, Tennessee, U.S.A.

DoseRAE 2



Electronic Dosimeter for Personal Radiation Dosage Monitoring

SPECIFICATIONS

Gamma Sensors	CsI (TI) + photodiode (low environment radiation) Energy-compensated PIN diode (level of radiation protection)
Dose Rate Range	0.01 μ Sv/h to 10 Sv/h (1 μ R/h to 1140 R/h)
Accuracy of Dose Rate	$\pm 20\%$ (from 10 μ Sv/h to 10 Sv/h or from 1.14 mR/h to 1140 R/h) $\pm 30\%$ (from 0.01 μ Sv/h to 10 μ Sv/h or 1 μ R/h to 1.14 mR/h)
Dose Range	0 μ Sv to 10 Sv (0 μ R to 1140 R)
Dose Accuracy	$\pm 15\%$
Energy Range	20 keV to 6 MeV for X- and gamma radiations
Size	3.3" x 2.2" x 0.4" (85 x 55 x 9.6 mm) without clip
Weight	1.8 oz. (50g) with battery and clip
Battery	LIR2450 Rechargeable batteries
Operating Hours	Up to 200 hours after each charge (one week continuous use)
Datalog Size	More than 3000 data points
Datalog Interval	User programmable, from 30 to 3,600 seconds
Communication	USB interfaces with computer for datalog download
Alarms	• Loud audible buzzer (85+dB @ 30 cm/12") • Highly visible LED lights • Built-in vibration alarm
Alarm Settings	Dose alarm (adjustable from 1.0 μ Sv to 10 Sv or 114 μ R to 1140 R) Dose rate alarm (adjustable from 1.0 μ Sv/h to 10 Sv/h or 114 μ R/h to 1140 R/h)
Temperature	-20° C to 50° C (-4° F to 122° F)
Humidity	0% to 95% (non-condensing)
IP Rating	IP-54
Shock Resistance	Passes drop test from 1.5 m (59")

Specifications are subject to change



DOSERA 2 COMES WITH:

- DoseRAE 2 electronic personal dosimeter with clip
- Charging and PC communication cradle
- USB communication cable
- Protective silicone boot
- CD with (1) ProRAE Dosimeter instrument configuration and data management software and (2) User's Guide
- Protective pouch with alligator clip
- Calibration and test certificate
- Warranty/registration card

ORDERING INFORMATION (MODEL PRM-1200)

Product	Part Number
DoseRAE 2 Dosimeter Kit—US version (default setting unit: R)	035-0012-000
DoseRAE 2 Dosimeter Kit—EU version (default setting unit: Sv)	035-0013-000

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DS-1067-01

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GammaRAE II R

Radiation Detector and Dosimeter in One



Combined Detector and Dosimeter

Intrinsically Safe

Immersible

Loud Alarm

Dose Accumulation

The GammaRAE II R is a gamma radiation detector and full-range dosimeter in a single instrument. Designed specifically to meet the needs of first responders, it has the rapid response of a detector and the accurate dose measurement of a dosimeter.

Key Features

- Sensitive CsI scintillator for excellent search capability and fast response
- Energy-compensated PIN diode sensor for high dose rate range and accurate dosimeter capabilities
- Prominent visible, audible and vibration alarms
- Alerts first responders to radioactive threats
- Accurately measures accumulated dose to the wearer
- Immersible in water for easy decontamination
- Top-mounted, invertable display
- Continuous digital readout in Rem/hour ($\mu\text{R/h}$ & mR/h) or in Sievert/hour ($\mu\text{Sv/h}$ & mSv/h) and counts per second (cps)
- Two operation keys, simple intuitive programming
- Long calibration life
- Two AA alkaline batteries last up to 600 hours
- Large, 30,000-point datalog capacity, downloaded via cable-free Bluetooth® connection

NOTE: Combined Radiation Dosimeter and Rate Meter Technology is produced by RAE Systems and protected by U.S. Patent No. 7,592,603 B2



Applications

- Customs and border patrols
- Law enforcement
- Security officers in nuclear power facilities, banks, government laboratories, medical facilities
- Military
- Government agencies
- HazMat teams
- Fire departments



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CE



GammaRAE II R

Specifications

Sensor	
Radiation Sensors	3cc CsI (TI) with Photodiode (Low channel) Energy-Compensated PIN Diode (High channel)
Energy Range	0.06 to 3.0 MeV
Dose Equivalent Rate (DER) Range for ¹³⁷Cs	1 µR/h to 600 R/h (0.01 µSv/h to 6 Sv/h)
Accuracy of DER	±20%
Dosage Range	1 µR to 999.9 R (0.01 µSv to 9.9 Sv)
Background Reference	Background level reference set automatically on start-up (Search Mode only), plus user-initiated as needed
Calibration	None required. Periodic functional test recommended using 1 µCi and 16 µCi ¹³⁷ Cs check sources. Factory calibration available if needed.
Alarms	
Time to Alarm	<2 seconds
Alarms	• Loud audible buzzer (85+ dB @ 30 cm) • Built-in vibration alarm • Highly visible LED lights on both sides of LCD graphic display
Alarm Settings	Dose Rate Search Mode: Alarm threshold based on variations in local background level Safety Mode: User-programmable low and high alarm thresholds based on dose rate Dose User-programmable low and high alarm thresholds based on dose Stay Time: Alarms vary by time (3 min to 2 hrs, once per minute; <3 min, once every 5 sec; 0 min and beyond, same as dose alarm)
Datalogging And Communication	
Datalog Size	30,000 data points (20 days at 60-second intervals)
Datalog Modes	Continuous: Logs data at all times Event-Driven: Starts logging data on alarm
Datalog Interval	User programmable, 1 to 3,600 seconds
Communication	Built-in Bluetooth® radio interfaces with computer for datalog download and configuration changes
Power	
Battery	2 AA alkaline batteries
Operating Period	Up to 600 hours
Operating Environment	
Temperature	-20° C to 50° C (-4° F to 122° F)
Temperature Alarm	Temperatures above 50° C (122° F) will cause a high-temperature error message
Humidity	0% to 95% (non-condensing)
Shock Resistance	Passes drop test from 1.5 m (59")

IP Rating	IP-67 (immersible)
Intrinsic Safety	Certified to meet Class I, Div. I, Groups A, B, C, D, T4 ATEX II IG EEx ia IIC T4
Physical Characteristics	
Display	Graphic LCD with 1.2" x 0.75" (30.5 mm x 19 mm) viewable area can be flipped for view by user; Radiation intensity displayed in cps or dosage rate in divisions of R/h or Sv/h
Direct Readout	Dose rate, peak, min, total dose, battery status, time, temperature
Ergonomics	Nonslip rubber housing with grippable ridges securely fits hand or glove
Keypad	2 operation/program buttons
Size	4.92" x 2.68" x 1.38" (125 mm x 68 mm x 35 mm)
Weight	9.5 oz (270 g)
Attachments	Rugged metal belt clip and wrist strap

*Specifications are subject to change

GammaRAE II R Kit includes:

- GammaRAE II R personal radiation detector/dosimeter
- Belt clip
- 2 AA alkaline batteries
- Wrist strap
- User's guide
- Calibration certificate
- ProRAE Studio Radiation software

Ordering Information

Part Numbers

GammaRAE II R Standard Kit	047-0501-000
GammaRAE II R Rechargeable Kit	047-0601-000

Toll-Free: 877-723-2878

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NeutronRAE II

Personal Radiation Detector

An intrinsically safe, rapid detector of gamma and neutron radiation sources

NeutronRAE II is the first personal radiation detector to provide rapid detection of both gamma and neutron radiation sources even in potentially flammable environments. Certified intrinsically safe and water-immersible for chemical decontamination purposes, the NeutronRAE II can be safely used in more environments than any other personal gamma and neutron radiation detector.

Fast Response

The sensitive Cesium Iodide (CsI) gamma scintillator and Lithium Iodide (LiI) neutron scintillator of the NeutronRAE II provide a fast response to radiological threats.

Loud Alarm

NeutronRAE II alerts the wearer with a loud audible buzzer, big, bright flashing LEDs, and a built-in vibration alarm. For stealth operations, users can disable each alarm individually.

Water Resistant

Immersible (IP67) design makes for reliable operation in wet environments and easy decontamination.

Dose Accumulation

The NeutronRAE II accumulates approximate total dose from gamma radiation. Stored dose data can be cumulative or cleared and reset for each use period.

Intrinsic Safety (IS)

IS certification permits operation in potentially flammable/explosive environments.

Key Features

- Detects neutrons from weapons grade Plutonium (^{239}Pu) and gamma rays from potential "dirty bomb" materials
- Sensitive CsI and LiI scintillators for excellent search capability and fast response
- Prominent visible, audible and vibration alarms
- Immersible in water for easy decontamination
- Top-mounted, invertable display
- Continuous digital readout in microRem/hour ($\mu\text{R/h}$) or microSievert/hour ($\mu\text{Sv/h}$) and counts per second (cps) for gamma radiation, and counts per second for neutron radiation
- Two operation keys and simple, intuitive programming
- Long calibration life
- Two AA alkaline batteries last up to 600 hours
- Large, 30,000-point datalog capacity, downloaded via cable-free Bluetooth® connection

Applications

- Alerts first responders to radioactive threats
- Customs & border patrols
- Law enforcement
- Security officers in nuclear power facilities, banks, government laboratories, medical facilities
- Military
- Government agencies
- HazMat teams
- Fire Departments



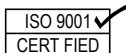
Intrinsically Safe

Immersible



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ATEX



NeutronRAE II

Specifications*

Detector Specifications

SENSOR	
Radiation Detector	Gamma: 3cc CsI (TI) with Photodiode Neutron: 1cc LiI (Eu) with Photodiode
Energy Range	Gamma: 0.06 to 3.0 MeV Neutron: thermal to 14 MeV
Dose Equivalent Rate (DER) Range for ¹³⁷Cs	1 to 4,000 µR/h (0.01 to 40 µSv/h)
Accuracy of DER	±20%
Neutron Measuring Range	1 to 100 cps
Dose Range	1 µR to 999 R (0.01 µSv to 9.9 Sv), gamma only
Background Reference	Background level reference automatic on start-up, plus user-initiated as needed (Search Mode only)
Calibration	None required. Periodic functional test recommended using 1 µCi ¹³⁷ Cs check source. Factory calibration available if needed.
ALARMS	
Time to Alarm	≤2 seconds (gamma), ≤5 seconds (neutron)
Alarm Alerts	• Loud audible buzzer (85+ dB @ 30 cm) • Built-in vibration alarm • Highly visible LED lights on both sides of LCD graphic display • Can be separately enabled or disabled
Alarm Modes	Search Mode: Gamma and neutron alarm thresholds based on variations in local background level Safety Mode: User-programmable low and high gamma alarm thresholds based on dose rate (applies to gamma alarm only)
DATALOGGING AND COMMUNICATION	
Datalog Size	30,000 data points (20 days at 60-second intervals)
Datalog Modes	Continuous: Logs data at all times Event-Driven: Starts logging data on alarm
Datalog Interval	User programmable, 1 to 3,600 seconds
Communication	Built-in Bluetooth® radio interfaces with computer for datalog download
POWER	
Battery	2 AA alkaline batteries
Battery Runtime	Up to 600 hours
OPERATING ENVIRONMENT	
Temperature	-20° C to 50° C (-4° F to 122° F)
Temperature Alarm	Temperatures above 50° C (122° F) will cause a high-temperature alert message
Humidity	0% to 95% (non-condensing)
Shock Resistance	Passes drop test from 1.5 m (59")
IP Rating	IP67 (immersible)
Intrinsic Safety	Certified to meet Class I, Div. I, Groups A, B, C, D, T4 ATEX II 1G EEx ia IIC T4

PHYSICAL CHARACTERISTICS	
Display	Graphic LCD with 1.2" x 0.75" (30.5 mm x 19 mm) viewable area can be flipped for view by user; Radiation intensity displayed in cps (gamma, neutron) or dose rate in µR/h or µSv/h (gamma only)
Direct Readout	Dose rate, peak rate, minimum rate, total gamma dose, battery status, current time and date, current time since start-up, internal temperature
Ergonomics	Nonslip rubber housing with grippable ridges securely fits hand or glove
Keypad	2 operation/program buttons
Size	4.92" x 2.68" x 1.38" (125 mm x 68 mm x 35 mm)
Weight	10 oz (283 g)
Attachments	Rugged metal belt clip and wrist strap

*Specifications are subject to change

Detector kit includes:

- NeutronRAE II personal radiation detector
- Belt clip
- 2 AA alkaline batteries
- Wrist strap
- User's Guide
- Calibration certificate
- ProRAE Studio Radiation software

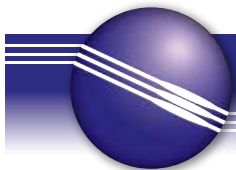


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AreaRAE Gamma

Wireless, Multi-channel, Compact and Easily Transportable Multi-gas and Radiation Monitor

The AreaRAE Gamma is a combination multi-gas and radiation detector equipped with a wireless, RF (radio-frequency) modem that allows the unit to communicate and transmit sensor and other information on a real-time basis with a remotely located base controller.

In the stand alone operation, the AreaRAE Gamma is a rugged, weather-resistant, one-to-five sensor portable monitor that can run up to 18 hours on either rechargeable Lithium-ion or optional alkaline batteries. It is also the first "lunchbox"-type multi-sensor instrument able to include a gamma sensor for measurement of gamma radiation, a photoionization detector (PID) for parts-per-million measurement of volatile organic compounds (VOCs), as well as an LEL combustible gas sensor, oxygen sensor, and a selectable electrochemical toxic sensor.

The RF modem allows real-time data transmissions with a base controller located up to two miles away from the AreaRAE Gamma detector. A personal computer can be used as the base station. The standard ProRAE Remote software used to control AreaRAE Gamma systems is capable of monitoring the input of up to 64 remotely located monitors.

Key Features

- Up to four gas sensors (PID, LEL, O₂ and selectable toxic gas)
- One radiation sensor (Gamma)
- Loud buzzer and large, extra-bright warning light
- Large LCD display and keypad
- Rugged, weather-resistant housing
- Built-in sampling pump
- Interchangeable Lithium-ion or alkaline battery pack
- Continuous operation via AC source

Additional Advantages

- Real-time wireless data transmission with built-in RF modem
- View real-time sensor data and alarm status at headquarters or commandcenter
- Optional GPS provides ability to track and display readings from remote detectors
- License-free, ISM-band RF transmission with communication range up to 2 miles

- Fully hardware and software compatible with standard AreaRAE (PGM-5020) 5-gas monitoring system
- Standard AreaRAE (PGM-5020) is factory upgradeable to AreaRAE Gamma

Applications

- HazMat and Emergency Response
- Homeland Defense Applications
 - Public Venue Protection
 - First Responders
 - Port Security
 - Border Crossings



 **Wireless**

 **GPS**

A wirelessly networked AreaRAE deployment providing public venue protection



AreaRAE Gamma

Specifications*

Detector Specifications

Size	9.25" L x 5.0" W x 9.25" D (235mm L x 127mm W x 235mm D) without handle
Weight	8.5 lbs. (3.9 kg) with battery pack
Sensors	Up to five sensors (PID, LEL, Gamma, and two selectable toxics; or PID, LEL, Gamma, O ₂ , and one selectable toxic)
Battery	Rechargeable, 7.4V/4.5Ah, Lithium-ion battery pack with built in charger (less than 10 hours charge time) or a 6 C-size alkaline battery pack
Operating Hours	Up to 18 hours continuous operation
Display	2-line, 16-digit LCD with manually activated LED back light
Keypads	3 operation and 4 programming keys
Direct Readout	Instantaneous values, sensor name, high and low values for all detectors, TWA and STEL values for toxic gases and VOCs, battery voltage and elapsed time
Alarm	Flashing red LED cluster to indicate exceeded preset limits, low battery or sensor failure
Alarm Setting	Separate alarm limit settings for TWA, STEL, Low and High alarm
Audible Alarm	110dB buzzer at 10cm (typical)
Visual Alarm	Flashing red LED cluster
Alarm Mode	Latching/automatic reset
Datalogging	4,000 points for each sensor with time stamp, serial number, user ID, site ID
Data Storage	20,000 readings (64 hours, 5 channels at 1-minute intervals) in non-volatile memory
Datalog Interval	Programmable 1 to 3600 sec
Communication	Upload data to PC and Download monitor setup from PC through RS-232 link to serial port on PC
EM Immunity	No effect when exposed to 0.43 mW/cm ² RF interference (5-watt transmitter at 12 inches)
Safety Certification	CSA Classified for use in Class I, Division 2, Groups A,B, C, and D (w/ 900 MHz modem)
Frequency	902 to 928 MHz (License-free)
RF Range	Up to 2 miles (900 MHz) - extendable with RAELink Repeaters
Calibration	Two-point field calibration for fresh air and standard reference gas
Sampling Pump	Internal integrated diaphragm pump with programmable High (400cc/min) and Low (300cc/min) flow rate settings
Low Flow Alarm	Auto shut off pump at low flow condition
Temperature	-4° to 113°F (-20° to 45°C)
Humidity	0% to 95% relative humidity (non-condensing)
Optional	Integrated GPS receiver

*Specifications are subject to change

Sensor Specifications

Radiation	DER Range	Energy Range	Sensitivity
Gamma	1 to 4000 µR/h (0.01 to 40 µSv/h)	0.060 to 3.0 MeV	>100 cps /µSv/hr

Gas Monitor	Range	Resolution
Oxygen	0 to 30.0%	0.1%
Combustible	1 to 100% LEL	1% LEL
VOCs	0 to 199 ppm 200 to 2,000 ppm	0.1 ppm 1 ppm
Carbon Monoxide	0 to 500 ppm	1 ppm
Carbon Monoxide	10 to 2000 ppm	10ppm
Hydrogen Sulfide	0 to 100 ppm	1 ppm
Sulfur Dioxide	0 to 20.0 ppm	0.1 ppm
Nitric Oxide	0 to 250 ppm	1 ppm
Nitrogen Dioxide	0 to 20.0 ppm	0.1 ppm
Chlorine	0 to 10.0 ppm	0.1 ppm
Hydrogen Cyanide	0 to 100 ppm	1 ppm
Ammonia	0 to 50 ppm	1 ppm
Phosphine	0 to 5.0 ppm	0.1 ppm
Hydrogen Chloride	2 to 15 ppm	1 ppm
Hydrogen Fluoride	2 to 10 ppm	1 ppm

Monitor only includes:

- Monitor as specified
- Sensors as specified
- Calibration adapter
- Quick reference guide
- Operation and maintenance manual
- Shoulder strap
- Rechargeable Lithium-ion battery pack
- 120/240 VAC AC/DC Adapter
- Spare alkaline battery pack
- External filter adapter
- 10 spare external filters
- 5 Internal filters
- Hard transport case with pre-cut foam
- 15' (5m) Teflon® tubing
- Tool kit

Instrument with calibration kit also includes:

- Calibration gas (kit may contain multiple cylinders, depending on the sensors installed)
- Calibration regulator and tubing (kit may contain a second regulator, depending on the types of calibration gases included)
- Hard transport case with pre-cut foam

Datalogging Monitors also include:

- Software, ProRAE Suite Package for Windows® 2000 and XP
- Computer interface cable

ProRAE Remote Basic Host Software Package includes:

- ProRAE Remote Software for Windows 2000 and XP
- RAELink Modem

AreaRAE Gamma Model Numbers:

- AreaRAE Gamma with RF modem: PGM-5120
- AreaRAE Gamma with RF modem & GPS option: PGM-5120

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