

RECON
OUTDOORS

User Manual



Scout PMD 1000™
Perimeter Monitoring System

Perimeter Monitoring System

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RECEIVER

SENSOR

The **Scout 1000 PMD System** is a portable, real time perimeter monitoring system. The **Scout 1000 PMD System** consists of one Receiver and two Sensors. The two Sensors come from the factory Pre-programmed to the Receiver in columns 1 and 2. The Receiver can be programmed with up to six Sensors (additional Sensors sold separately).

The range from a Sensor to the Receiver is generally 75 to 200 yards line-of-sight. Trees, bushes, hills or buildings in the line-of-sight will reduce the range. The Receiver is a wrist worn device that alerts the user in four ways:

1. A vibrating motor
2. A flashing LED backlight
3. An Alarm icon  on the LCD display
4. A buzzer that the user can turn on and off

The Scout PMD 1000 can be used with alkaline or rechargeable NiMH batteries. Batteries should be removed when storing units for prolonged periods of time.

Sensors

Sensors have no user controls. Simply install two AAA alkaline batteries and Sensors begin working. The batteries will last for about two years of continuous use. The detection zone (See Figure 1) extends out from the lens of the Sensor. Best performance is achieved when the target being detected passes through the detection zone from left to right or right to left.

The detection range from the Sensor varies with the difference in temperature between the target and air temperature. During winter a target may be detected at a distance of 75 feet or more from the Sensor. However during hot weather this distance may be reduced to less than 30 feet. The Sensors should be set to a height that is at the center mass of the target being detected. Use this information when setting up your Sensors.

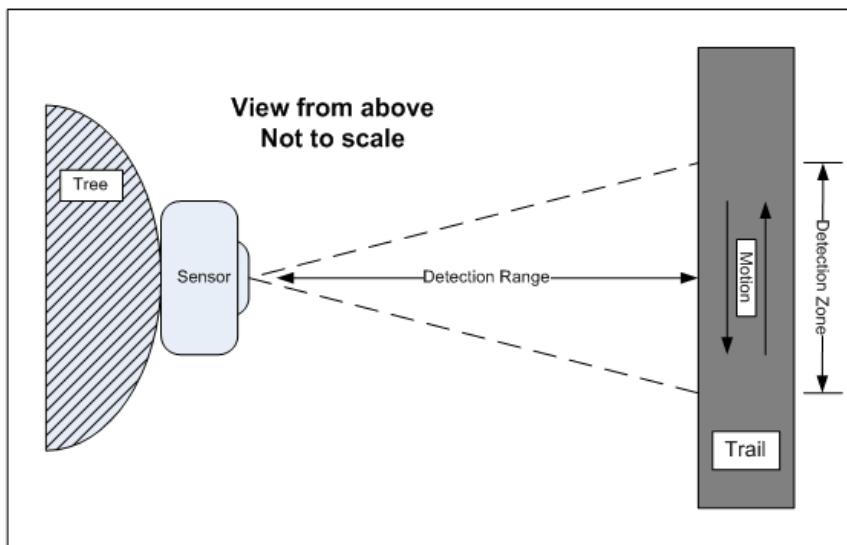
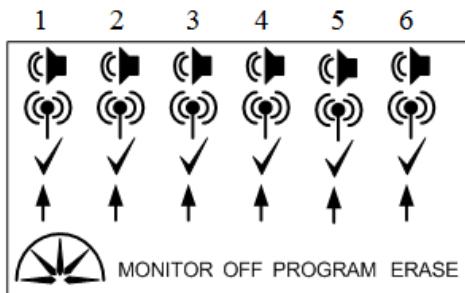


Figure 1

3 Receivers

Receivers are powered by two AAA alkaline batteries that last for at least forty hours of continuous operation with the backlight turned off and twenty hours with the backlight on. The Receiver has two user controls and a backlit LCD display so the user can choose and view options and status information. The user controls are momentary pushbutton switches. A LIGHT button toggles the LED backlight on and off, and a MODE button turns power on and off and moves through all the user options.



LCD Display
Figure 2

Figure 2 shows the LCD display with all icons turned on. There are five rows of icons with the top four rows arranged into six columns. Each column represents one associated Sensor if it has been programmed. The icons have the following meaning:

ALARM icons come on for five seconds after a motion message is received from the associated Sensor.

SIGNAL icons indicate that the Sensors are in range. Since Sensors send a message once per minute and remain on for one minute each time a message is received, the SIGNAL icon will remain on for as long as the Receiver is within communication range of the Sensor. Note that when power is turned on it may take up to one minute for any SIGNAL icon to appear.



PROGRAM icons appear when the Receiver has been programmed to associate a particular Sensor with that column. Messages from the Sensor associated with a particular column control the **ALARM** and **SIGNAL** icons in that column. **ALARM** and **SIGNAL** icons will never appear for an unprogrammed column.



SELECT icons appear only in **PROGRAM** mode. The Select icon indicates which Sensor number is being programmed.

The fifth row of icons is not specific to any Sensor and indicates the Receiver's mode: **MONITOR**, **OFF**, **PROGRAM** or **ERASE**. In the case of **OFF** and **ERASE** modes the remaining time in seconds until activation (receiver turns off or programming is erased) is displayed graphically with a 5 second countdown timer as follows:



5 secs



4 secs



3 secs



2 secs



1 sec

OFF

Turning the Receiver On and Off

If the Receiver is off, then pressing the MODE button once will turn the Receiver on. The Receiver always comes on in the **MONITOR** mode. In **MONITOR** mode the Receiver will receive messages from any programmed Sensor. Within one minute the **SIGNAL** icons (⌚) for any programmed Sensors will come on if the Sensors are in communication range. Motion messages from programmed Sensors will turn on the **ALARM** icon (🔔) for 5 seconds, and simultaneously:

1. Vibrate the motor three times.
2. Flash the LED backlight three times.
3. Beep the buzzer three times if it is turned on.

Pressing the MODE button while in **MONITOR** mode causes the **OFF** icon to appear (**see Figure 3**) and the countdown timer to start. If the MODE button is not pressed for 5 seconds, the timer will turn the Receiver OFF. The MODE button is the ON/OFF switch. All programming is saved when the Receiver is off.

Programming / Erasing the Receiver

If the Receiver is in the OFF mode and the timer has not yet counted down to zero, then pressing the MODE button will place the Receiver in the PROGRAM mode. The OFF icon and the timer will disappear and the SELECT icon  for column 1 will appear. The Receiver is now ready to program column 1 whether it is already programmed or not. Now perform the following programming steps:

1. Bring the Receiver within 6 inches of the Sensor you want associated with column 1.
2. Initiate a motion message by waving your hand in front of the Sensor.

The Receiver will instantly associate column 1 with this Sensor. The PROGRAM  , SIGNAL  and ALARM  icons will all appear indicating that programming was successful. Note that close proximity (less than 6 inches) is critical when programming because in PROGRAM mode the Receiver requires the signal strength to be strong. Weak signals have no effect in PROGRAM mode so there is no possibility of a distant Sensor inadvertently interfering with programming.

If you want to program more columns then press the MODE button to move the SELECT icon  through all 6 columns and repeat the programming steps outlined above. If you do not want to program a column then simply skip the two programming steps for that column.

When in PROGRAM mode and the SELECT icon  is pointing at column 6, pressing the MODE button once moves the receiver into the ERASE mode. The ERASE icon appears and the countdown timer starts. If the timer is left to expire, then all programming is erased and all PROGAM  , SIGNAL  and ALARM  icons disappear. To enter the Monitor mode from Program mode, without erasing all programmed settings, press the mode pushbutton twice, this will skip the Erase mode.

Turning the Buzzer ON and OFF

When in PROGRAM mode and the SELECT  icon is pointing to column 6 a special situation exists. You can program column 6 as described above, or you can also toggle the buzzer on and off. To toggle the buzzer, press the LIGHT button twice. An alarm associated with an incoming motion message will be simulated. The vibrating motor will vibrate, the LED backlight will flash and the buzzer will sound if it was OFF before. Pressing the LIGHT button twice more will toggle back to the previous state causing a new alarm, so this feature can be used to determine the buzzer state. Once you are finished with the buzzer, use the MODE button to return to the MONITOR mode.

Product Walk Through

Step 1

1	2	3	4	5	6	Sensors 1-6
✓	✓		✓		✓	

MONITOR

The Receiver has just been turned on. It is in MONITOR mode. Columns 1, 2, 4 and 6 were previously programmed to Sensors.

Step 2

1	2	3	4	5	6	
✓	✓		✓		✓	

MONITOR

A Signal from the Sensor associated with column 2 has just been received indicating that Sensor #2 is in range and communicating with the Receiver.

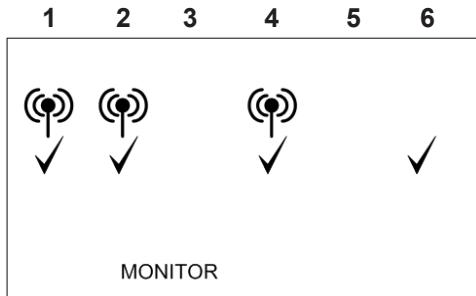
Step 3

1	2	3	4	5	6	
✓	✓		✓		✓	

MONITOR

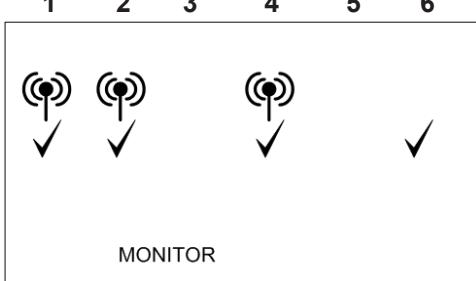
A Signal from the Sensor associated with column 1 has just been received indicating that Sensor #1 is in range and communicating with the Receiver.

Step 4



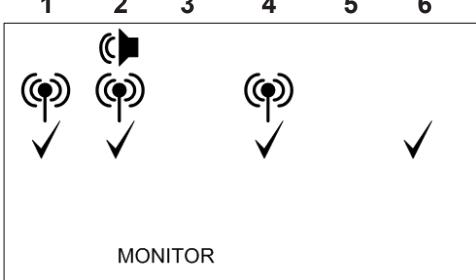
A Signal from the Sensor associated with column 4 has just been received indicating that Sensor #4 is in range and communicating with the Receiver.

Step 5



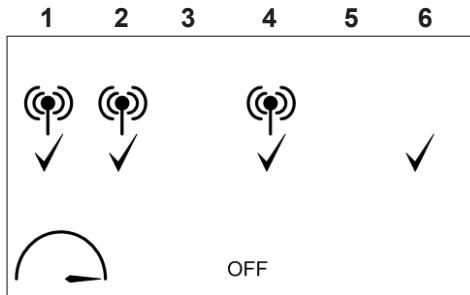
A minute has elapsed since the Receiver was turned on. No Signal icon  in column 6 indicates Sensor #6 is either out of communication range, the batteries are dead or the Sensor is not working.

Step 6



A motion message from Sensor #2 has just been received indicating a target has passed through the Detection Zone. The ALARM icon  will remain on for 5 seconds. At this time the motor will vibrate three times, the LCD backlight will flash three times and the buzzer will beep three times (if it is turned on).

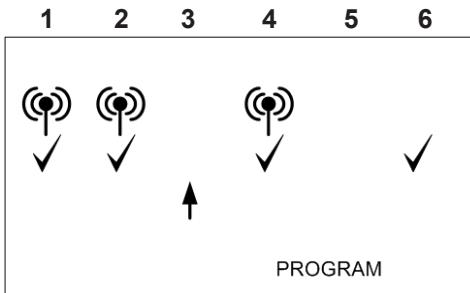
Step 7



Pressing the MODE button once will take the user from MONITOR mode to the OFF mode. A 5 second countdown timer will begin and the Receiver will turn off when it reaches 0. The user can exit the OFF mode before the timer reaches 0 by pressing the MODE button once, this will take the user to Program mode with the Select icon

↑ appearing in column 1.

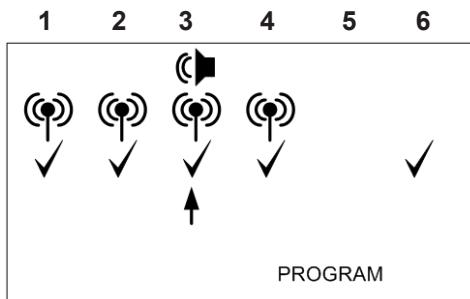
Step 8



To program a Sensor to column 3 press the MODE button 2 times, to move the Select icon ↑ to column 3. The Select icon ↑ indicates that column 3 is ready to be programmed. Now perform the following programming steps:

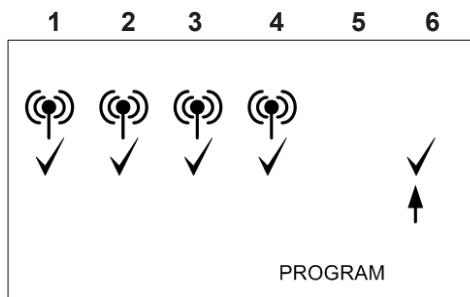
1. Bring the Receiver within 6 inches of the Sensor you want associated with column 3.
2. Initiate a motion message by waving your hand in front of the Sensor.

Step 9

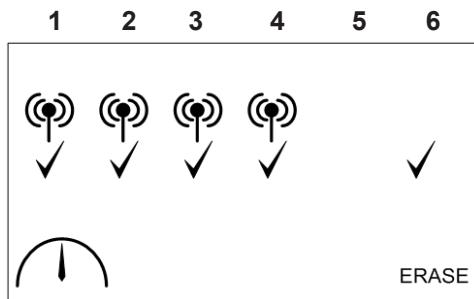


The Receiver has just received a motion message from the Sensor and has associated the Sensor with column 3. Column 3 is now programmed as indicated by the PROGRAM icon ✓. The ALARM icon (Speaker with a dot) will remain on for 5 seconds.

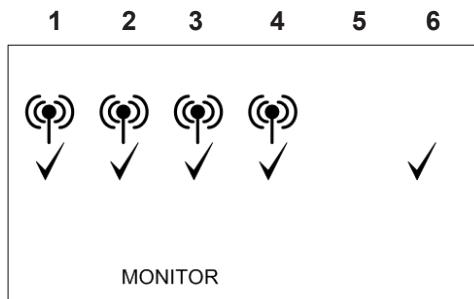
Step 10



The user has pressed the MODE button 3 times moving the SELECT icon ↑ to column 6. You can program column 6 or you can also toggle the buzzer ON and OFF. To toggle the buzzer, press the LIGHT button twice. An alarm associated with an incoming motion message will be simulated. The vibrating motor will vibrate, the LED backlight will flash and the buzzer will sound (if it was off before). Pressing the LIGHT button twice more will toggle back to the previous state causing a new alarm, so this feature can be used to determine the buzzer state (on or off). Once you are finished with the buzzer, press the MODE button twice to return to the MONITOR mode or once to go to the ERASE mode.

Step 11

The user has pressed the MODE button once and has entered the ERASE mode. The countdown timer became active and has counted down 2 seconds. If the user does nothing, then in 3 seconds all programming will be erased. Press the MODE button once to prevent programming being erased and return to MONITER mode as shown in Step 12.

Step 12

The user has pressed the MODE button once before the countdown timer expired and is back in MONITOR mode. The user has moved through all modes and is back at the starting point.

LIMITED WARRANTY

Pentar, LLC ("Recon Outdoors") warrants to the original retail purchaser that product(s) made by Recon Outdoors and related Recon Outdoors accessories (individually a "Product" and collectively the "Products") will be free from defects in materials and workmanship under normal use and service for a period of one year from the date of initial retail purchase. If any Product proves to be defective, the customer must return the defective Product to the address listed below, following the procedure set forth below. However, it is recommended that the customer first call Recon Outdoors' Consumer Support Department at 1-866-647-3266, to attempt to determine the nature of the problem. Recon Outdoors, at its sole discretion, will repair, replace, or adjust the defective Product, provided that Recon Outdoors investigation and factory inspection disclose that (a) such defect developed under normal and proper use and (b) the Product is covered under this limited warranty. Repair, replacement, or adjustment of defective Products shall be Recon Outdoors' sole obligation and the customer's sole remedy hereunder. The customer shall pay for shipment of the Products to the Recon Outdoors Service Center. When service is completed, the Product will be returned to you via ground service freight prepaid. Recon Outdoors shall not be obligated to perform preventive maintenance, installation, deinstallation, upgrades, or maintenance. Recon Outdoors reserves the right to (i) use reconditioned, refurbished, and/or serviceable used parts for warranty or any other repairs and (ii) make any internal or external design and/or feature changes on or to its products without any liability to incorporate such changes on or to the Products.

Excluded from this limited warranty and not warranted by Recon Outdoors in any fashion, either express, implied, or by statute, are:

- (a) products and accessories not manufactured by Recon Outdoors and/or not bearing the "RECON OUTDOORS" brand label (the warranty coverage for products and accessories of other manufacturers, which may be distributed by Recon Outdoors, is the responsibility of the manufacturers of such products and accessories in accordance with the terms and duration of such manufacturers' warranties);
- (b) any Product which has been disassembled, repaired, tampered with, altered, changed, or modified by persons other than Recon Outdoors's own authorized service personnel unless repair by others is made with the written consent of Recon Outdoors;
- (c) defects or damage to the Products resulting from wear, tear, misuse, abuse, negligence, modification, accident, dirt, sand, liquids, impact, improper storage, improper installation, non-performance of scheduled operator and maintenance items, battery leakage, or use of non-"RECON OUTDOORS" brand accessories, consumables, or supplies;
- (d) supplies and consumables (including but not limited to batteries); and/or
- (e) Products which do not contain a validly placed and recorded Recon Outdoors serial number.

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Representations and warranties made by any person, including but not limited to dealers, representatives, salespersons, or agents of Recon Outdoors, which are inconsistent or in conflict with or in addition to the terms of this limited warranty, shall not be binding upon Recon Outdoors unless reduced to writing and approved by an expressly authorized officer of Recon Outdoors.

This limited warranty is the complete and exclusive statement of warranty which Recon Outdoors agrees to provide with respect to the Products and it shall supersede all prior and contemporaneous oral or written agreements, understandings, proposals, and communications pertaining to the subject matter hereof. This limited warranty is exclusively for the benefit of the original customer and cannot be transferred or assigned.

When eligible service is needed, package the Product carefully using ample padding material to prevent damage in transit and ship it postage prepaid and insured to the **Recon Outdoors Service Center** listed below:

**Recon Outdoors
Attention: Camera Service Center
906 Bob Wallace Ave SW # F
Huntsville, Alabama 35801**

When returning Products for service, your package must include the following:

1. Original sales receipt showing date and place of purchase. This will be required for in warranty service.
2. Copy of this limited warranty bearing the Product serial number corresponding to the serial number on the Product.
3. A detailed description of the problem.

RECON OUTDOORS SERVICE POLICY

We understand your passion for hunting and your desire to get back in the woods with your product. Therefore, we will make every effort to repair your unit within three (3) business days from the receipt of your unit at our factory. This does not include shipping time to and from our factory. Units received on Friday are typically shipped by the following Wednesday, units received Monday are typically shipped by Thursday, etc.

All repair work is performed by factory trained technicians to meet exacting factory specifications. Factory-serviced units go through the same rigorous testing and quality control inspections as new production units.

After the original warranty period, standard service charges will be assessed for each repair (physical damage and missing parts are not included). Any repairs made after the original warranty will be warranted for an additional ninety (90) days after service has been performed by our factory technicians. You can contact our Customer Service Department for current repair rates.

We reserve the right to deem any product unserviceable when replacement parts are no longer available or impossible to obtain. This Service Policy is valid in the United States only. This policy applies only to Recon Outdoors products returned to our factory in Huntsville, Alabama. This Service Policy is subject to change without notice.

Returning Your Unit for Service

Please contact our Customer Service Department, either by telephone or email, to obtain a Return Authorization Number before returning your unit for repair. Please have your product model name and serial number available before calling the factory. If you contact the factory by email, please include your product model name and serial number in the email, and use **Request for Repair Authorization Number** for your email subject header. You should include your Repair Authorization Number in all subsequent communications about your unit. You will need a new Repair Authorization Number each time you return a product for repair.

For service, complete the following steps:

- Obtain a Repair Authorization Number from Recon Outdoors Customer Service
- Tag product with your name, street address (NO PO BOX NUMBERS), phone number and your assigned Repair Authorization Number
- Include a brief written description of the problem
- Return your product freight prepaid to Recon Outdoors using an insured carrier with delivery confirmation.

NOTE: Our Customer Service personnel will contact you with a quote for the service of units that are out of warranty. Payment can be made in the form of a credit card, money order or personnel check. PLEASE DO NOT SEND CASH.

WARNING! Disassembly and repair of Recon Outdoors products should be performed only by factory trained personnel. Any modifications of the serial number or attempt to repair the original equipment or accessories by unauthorized individuals will void the warranty. Handling and/or opening this unit may result in exposure to lead, in the form of solder.

WARNING! This product contains lead, a chemical known to the state of California to cause cancer, birth defects and other reproductive harm.

Contacting Recon Outdoors

Contact the Recon Outdoors Customer Service Department in any of the following ways:

By telephone: **Monday – Friday 8:00 am to 5:00 pm Central Standard Time**

866-647-3266

By e-mail (typically we respond to your email within three (3) business days)
service@reconoutdoors.com

For direct shipping, our address is:

**Recon Outdoors
Service Department
906 Bob Wallace Ave Suite F
Huntsville, Alabama 35801**

Compliance Statement (Part 15.19)

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received,
including interference that may cause undesired operation.

Warning (Part 15.21)

Changes or modifications not expressly approved by the party responsible for

compliance could void the user's authority to operate the equipment.

FCC Interference Statement (Part 15.105 (b))

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.



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