Innovative products for the Outdoorsman

TrailScout™
Operating Instructions

Introduction

The TrailScout sensor system is design to work with 1 to 4 sensors and 1 receiver. Each sensor can be set at a different channel, therefore providing sensing coverage of 4 different areas. Each sensor contains a PIR (pyroelectric infrared sensor). Infrared radiation exists in the electromagnetic spectrum at a wavelength that is longer than visible light. It cannot be seen but it can be detected. Objects that generate heat also generate infrared radiation and those objects include animals and the human body.

Figure 1, Receiver Power & Vibrator switches

Figure 2, Sensor power switch

Quick start

The TrailScout sensor system can be used indoors or outdoors.
To conserve battery life, turn the receiver and sensor when not in use.
Mount the sensors using the strap to a tree or post. (See sensor mounting and orientation)
Close the external case and make sure the latches are secure.
Turn the sensor power switch on, forward towards the front of the sensor, (see figure 2) and exit the area.
Turn the receiver power switch on by pushing the power on/off button once. The green power on LED will illuminate indicating that the receiver power is on.
Turn the receiver vibrator motor on by pushing the "VIB" button once. The green vibrator power on LED will illuminate indicating that the vibrate feature is turned on. Note that it is not necessary to turn on the vibrate feature for the receiver to operate properly.
To turn off the receiver power or vibrate feature, push the corresponding button a second time.

Sensor mounting and orientation

Mount the sensors to a rigid support, such as a tree or post, using the strap provided. The sensor can also be mounted by using a small nail through the hole at the top of the mounting bracket. Aim the sensor at the desired subject area and then tighten the strap.
The passive infrared motion sensor detects changes in heat within its coverage area. When a human or animal enters the sensor's coverage area, it triggers the sensor, which sends a signal to the receiver to illuminate the appropriate LED and activate the vibrator motor, when the vibrator motor is turned on. The sensor is more sensitive to movement across its coverage zone and less sensitive to movement directly toward or away from the coverage zone. Therefore, choose a mounting location where the subject must walk across the coverage zone. When you choose the sensor mounting location, avoid a location where sunlight shines directly on the sensor.

Setup Tips

1. When you choose the sensor mounting location, avoid a location where sunlight shines directly on the sensor.
2. Never attach the sensor to a tree or object that can move in the wind. Select a tree that is at least 7 inches or more in diameter.
3. Make sure that there are no branches or leaves blocking the view of the sensor.
4. When setting up your TrailScout system, bring along a spare 9VDC battery. This will allow you to swap the batteries if needed.
5. If you are using your system for bear hunting, make sure that you do not get any bait scent on the sensor housing. Otherwise, the bears will think that there is bait inside your sensor and destroy it trying to get inside.

Sensor Control Settings

Locate the 8 position dip switch inside the battery compartment of the sensor, see Figure 3. You must remove the battery to gain access to the dip switches. The default settings are switch 1 ON and all other switches turned off, as shown in Figure 3.

Figure 3, SensorControl Settings dip switches

Channel Operation Settings

The channel selection is controlled using switch positions 1 thru 4 as follows.

Channel 1 SW1 – ON SW2 – OFF SW3 – OFF SW4 – OFF	**Channel 2** SW1 – OFF SW2 – ON SW3 – OFF SW4 – OFF
Channel 3 SW1 – OFF SW2 – OFF SW3 – ON SW4 – OFF	**Channel 4** SW1 – OFF SW2 – OFF SW3 – OFF SW4 – ON

Walk Test LED (Red)

The red test LED is controlled using switch position 5 as follows.

LED on SW5 – ON	**LED off** SW5– OFF

PIR Sensitivity Adjustment

The sensitivity adjustment allows you to easily set the PIR detecting sensitivity. The sensor is more sensitive in winter then in summer, be sure to reduce the sensitivity in summer by adjusting the sensitivity dip switches numbers 6-8, to avoid false triggering, see Figure 3.

Sensitivity Level 1 (lowest) SW6 – OFF SW7 – OFF SW8 – OFF	**Sensitivity Level 2** SW6 – ON SW7 – OFF SW8 – OFF
Sensitivity Level 3 SW6 – ON SW7 – ON SW8 – OFF	**Sensitivity Level 4 (highest)** SW6 – ON SW7 – ON SW8 – ON

Limited Warranty

This product is warranted by Ultrec Engineered Products against manufacturing defects in material and workmanship, under normal use for 6 months from the date of purchase from Ultrec Engineered Products and authorized Ultrec Engineered Products dealers. In the event of a product defect during the warranty period, send the defective product along with a copy of you sales receipt to Ultrec Engineered Products, 860 Maple Ridge Lane, Brookfield WI, 53045. Ultrec Engineered Products at its option will (a) correct the defect by product repair without charge for parts and labor; (b) replace the product with one of a similar design. New or reconditioned parts and product may be used in the performance of the warranty service. Repaired or replaced parts and products are warranted for the remainder of the original warranty period. You will be charged for repair or replacement of the product made after the original warranty period.

This warranty does not cover: (a) damage or failure caused by or attributable to acts of God, abuse, accident, misuse, improper or abnormal usage, failure to follow instructions, improper maintenance, bear attack, alteration, lightning or other incidence of excess voltage or current; (b) consumables such as batteries; (c) cosmetic damage; (d) costs for loss of use during the repair period.

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