

WIRELESS 1000 Annunciator System



TD-10U IN/OUTDOOR SENSOR TRANSMITTER

This product is only compatible with other devices of Wireless 1000 series.

TD-10U MANUAL

Please read this manual carefully before installation.

FEATURES

- Compatible with RC-10U (Chime Box W/Relay) & RG-10U (Single Relay Receiver)
- 15m Long Range & 5m Fan Pattern selectable
- Can be installed on Wall, Ceiling, and Desktop
- Weather proof structure (IP 54) for indoor and outdoor applications
- Over 8 million codes possible, eliminates interference from neighbors
- Powered by a 9-Volt alkaline battery (not included)
- Low battery signal
- LED indicator

CAUTION

Please be careful of the following:

1. Outdoor Use

The TD-10U Transmitter is suitable for both indoor and outdoor use.

2. High Temperature, High Humidity & Dirty Fumes

Do not expose the TD-10U to high temperatures, rapid temperature changes, steam, high humidity, dirty fumes or oily smoke.

3. Light

Direct sunlight or automobile headlights may cause false alarms.

4. Obstruction

Moving objects such as bushes or curtains may cause false alarms.

5. Other Electric Devices

Use the TD-10U at least 3ft (1m) away from following devices: TV, radio, personal computer, microwave oven, refrigerator, any device that has an electric motor (This may cause malfunction).

6. Transmission range may decrease under following conditions.

- A steel door, steel reinforced concrete, or other metal obstructions between the TD-10U and the receiver.
- Installing either the TD-10U or the receiver on a metal surface.
- Places near strong radio sources such as a broadcast stations or high power lines.

7. Impact/Shock

Do not drop the TD-10U or give it a strong impact/shock.

8. Tampering

The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

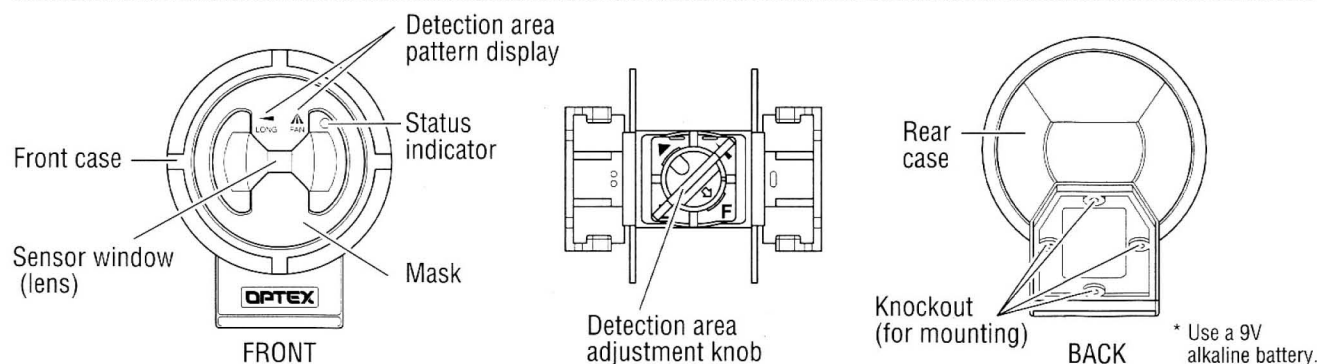
9. Battery Replacement

Replace the battery every 2 years. Use only 9V alkaline batteries.

10. Cleaning

Harsh cleaners such as paint remover or benzene may ruin the surface. Use a soft, wet cloth and mild soap or detergent to clean.

PART IDENTIFICATION



MAXIMUM TRANSMISSION RANGE

TD-10U	1000ft. (open field, line of sight)
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Measurements were made over level ground without obstruction. Natural or man-made obstacles and other environmental factors can interfere with or otherwise reduce transmission range. Always confirm actual transmission range during installation of system. Please use the information below as a reference for transmission performance.

Stucco/Plaster construction:	150ft
Reinforced concrete construction:	100ft

DETECTION AREA ADJUSTMENT

Selecting the appropriate detection pattern for the

Fan Pattern

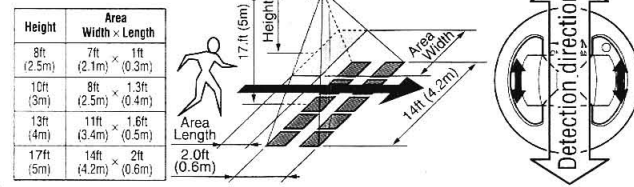
Long Range

Selecting the appropriate detection pattern for the TD-10U enhances its detection ability and false alarm immunity. The TD-10U is shipped to you in the fan pattern setting, but you can easily select either fan pattern or long range. Select Long Range detection area for Drive-Up Announcer applications.

Note: Moving trees and open areas can cause false alarms. For best results, aim the TD-10U at a wall or the ground to end its detection area with a solid background.

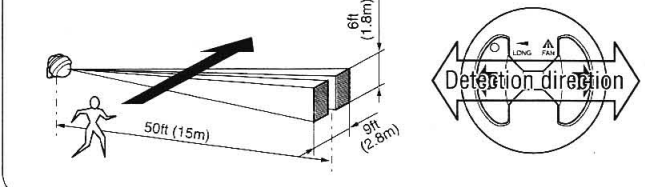
Fan Pattern

When using fan-pattern, install the TD-10U so an approaching person will pass through the detection area as shown in this diagram.



Long Range

When using long-range, install the TD-10U so an approaching person will pass through the detection area as shown in this diagram.

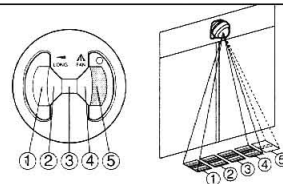


Installation Methods

Method	Diagram	Front View	Description
1)	5° left and right, Arc of 90°		Over a doorway
2)	5° up and down, Arc of 90°		Mounted on a wall, looking across a doorway
3)	5° left and right, Arc of 90°		Mounted on a counter, looking across a doorway

Method	Diagram	Front View	Description
1)	5° left and right, Arc of 90° downwards		For covering the area straight ahead or for short range coverage
2)	Arc of 90° towards left, 5° up and down		For covering the right side
3)	5° up and down, Arc of 90° towards right		For covering the left side
4)	Arc of 90°, 5° sideways		Mounted on a counter, looking across a doorway

If there is an area within fan-pattern detection area that you do not want to include, mask part of the lens with a tape.



How To Choose Detection Pattern

1 Use a screw driver to snap open the casing.

2 Choose from the two detection area pattern by pointing the arrow to either.

"F: fan pattern" or "L: long range."

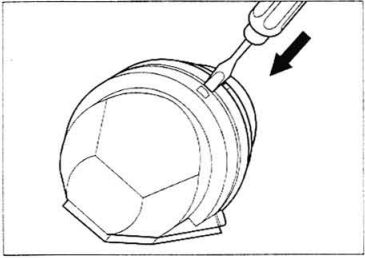
3 Turn the mask to a position that is most suitable for the detection area pattern you chose.

Pet Alley

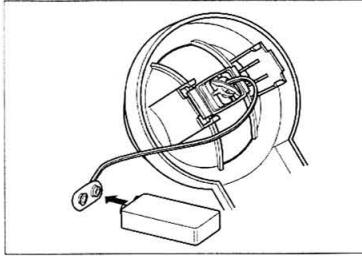
To avoid detecting small animals, make sure the TD-10U is installed horizontally using the long range setting and at least 2.6ft. (80cm) above ground.

INSTALLING BATTERY

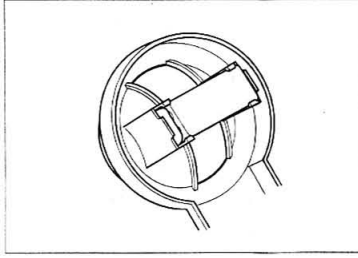
1. Use a screw driver to snap open the casing.



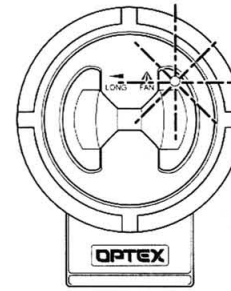
2. Attach the connector to the battery.



3. Fasten the battery with the battery clamp hook.



Note: Avoid turning the lens assembly while the battery is connected. Excessive turning can damage the wire connections.



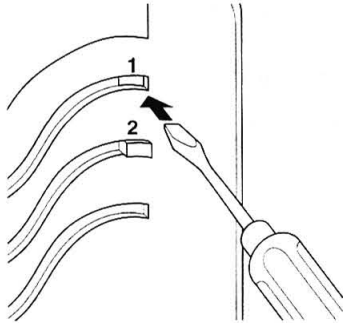
- When the power is low, the status indicator starts to flash. Replace the battery in such case, even if the battery is less than a year old.
- Low power may become the cause of false alarm.
- There is no need to readjust the TD-10U nor the receiver after replacing batteries.

TEACH TRANSMITTER CODES TO RECEIVER

The receiver must be taught this TD-10U's unique code before use. Refer to the receiver's manual for details.

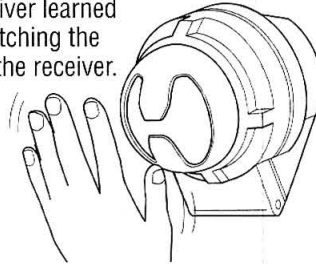
1. Preparation

- Press Switch 1 of the receiver until power indicator starts to flash.
- Press switch 2 to select the zone you wish to assign to the sensor.



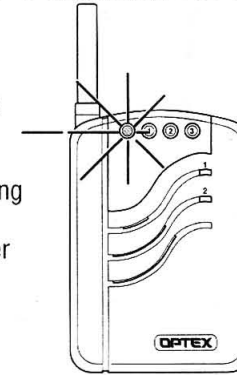
2. Activation

- Wave your hand in front of the TD-10U to trigger it.
- Verify that the receiver learned successfully by watching the zone indicators of the receiver. Zone indicators should have stopped flashing and remained continuously lit.



3. Verification

- After teaching all the transmitter's codes (if you have more than one transmitter), return the receiver to normal operating status.
- Make sure that the receiver operates correctly with all the transmitters

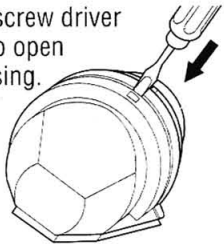


Note:

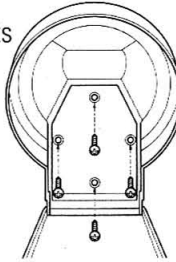
Cover the TD-10U until you are ready to teach the receiver. Unwanted detection can cause the TD-10U to be assigned to a wrong zone and override data of other transmitters.

INSTALLATION

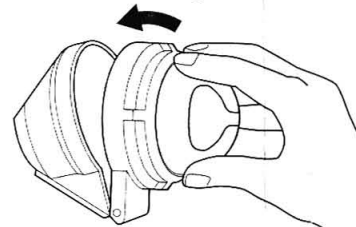
1. Use a screw driver to snap open the casing.



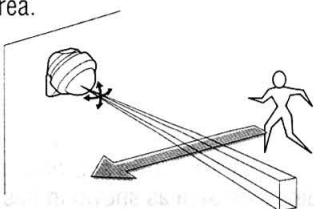
2. Remove knockouts of the rear cover. Fix the rear cover in place using screws.



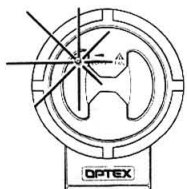
3. Close the casing.



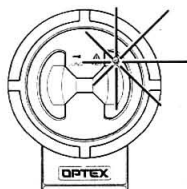
4. Make sure that detection area covers the intended area.



5. Verify that status indicator agrees with the detection pattern you chose.

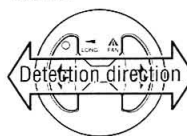


Long Range

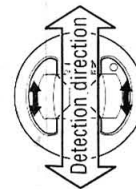


Fan Patten

6. Verify that movement direction and detection direction are same.



Long Range



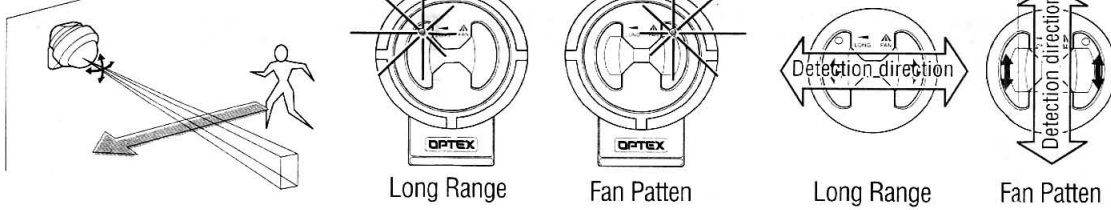
Fan Patten

CONFIRMATION

- Wave a hand close to the floor, if you have chosen fan-pattern and installed the TD-10U over the doorway pointing down. By watching the status indicator, you can find the boundaries of detection area.
- If you installed the TD-10U pointing sideways, walk by the detector to find boundaries.
- Place the TD-10U close to an entrance. An approaching person may go around the detection area otherwise.
- Make sure that the detection area is blocked by a wall or a floor. The TD-10U may react to objects too far away to be of any importance.

SPECIFICATIONS

Model	TD-10U
Description	Sensor Transmitter
Detection Method	Passive Infrared
Detection Area	50ft (15m) Long Range/ 17ft (5m) Fan Pattern
Angle Adjustment	90° Vertically & ±5° Horizontally or ±5° Vertically & 90° Horizontally



TROUBLE SHOOTING

1. The system is not operating.

Check the transmitter.

- Does the status indicator light up when you walk in front of the TD-10U? → If not, check to see if the battery is inserted correctly. Otherwise try a new battery.
- Is the detection area setting appropriate? If not, fix the setup.
- Is the status indicator flashing? → The battery is old. Replace the battery.

Check the receiver.

- Is the power indicator of the receiver lit? → Is the receiver on? Check the wiring, power switch and connection.
- The receiver does not respond to the TD-10U. → The TD-10U is not properly recognized by the receiver. Teach the receiver correctly.
- The zone indicator of the receiver is on, but nothing happens. → Receiver has not been properly setup. Refer to the receiver's manual and verify the setting.
- Is there anything blocking the transmission? → Relocate the receiver and/or the TD-10U. Metal objects can shorten the effective transmission range.

2. The system is not operating correctly.

- A particular zone is malfunctioning. → It is probably the transmitter's problem. Check the TD-10U using this zone.
- Are there small animals in the area? → Refer to the Pet Alley section in DETECTION AREA ADJUSTMENT.
- Does direct sunlight or light from automobiles enter the sensor window? → Reorient the TD-10U to avoid such light sources.
- Is the TD-10U installed on a stable platform? → Relocate the TD-10U to a stable platform.
- Is there anything that may cause rapid temperature change in detection area? (i.e. stove) → Remove any objects that may cause rapid temperature change from the detection area.
- Is there anything that may cause rapid temperature change of the TD-10U? (i.e. air conditioner) → Relocate the TD-10U to another place.
- Before contacting the supplier! → Remove the battery, then reinsert the same batteries and verify the TD-10U's operation again.

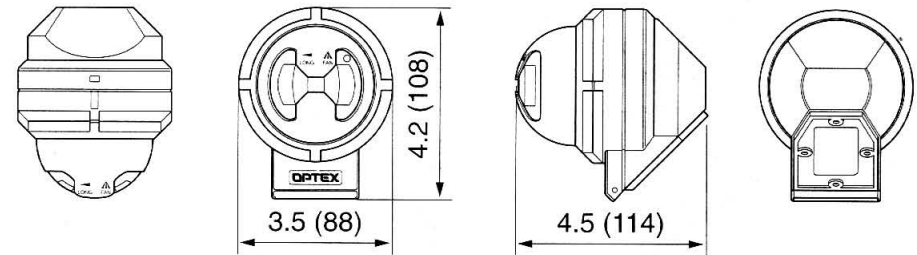
• If above solutions do not work, please contact your supplier for services.

Model	TD-10U
Description	Sensor Transmitter
Detection Method	Passive Infrared
Detection Area	50ft (15m) Long Range/ 17ft (5m) Fan Pattern
Angle Adjustment	90° Vertically & ±5° Horizontally or ±5° Vertically & 90° Horizontally
Status Indicator	Red LED
Power Source	9V Alkaline Battery
Battery Life	Approx. 2 years [250 times per day at 70°F (20°C)]
Frequency	418MHz
Operating Temperature	15°F~120°F(-10°C ~+50°C)
Installation Location	Outdoor/Indoor
Accessories	Mounting Screw x 2
Weight	6.3 oz (180g)

Specifications may change without notice

DIMENSIONS

Unit: inches (mm)



LIMITED TWO-YEAR WARRANTY

- (1) This Sensor Transmitter is warranted to the original consumer purchaser to be free from defects in material and workmanship under normal use for two (2) years from the date of purchase. If the product proves to be defective, return it postage prepaid with a copy of your dated sales receipt for repairs or replacement at no charge.
- (2) This warranty is in lieu of any and all other warranties, expressed or implied, including but not limited to any warranty of merchantability or fitness for a particular purpose.
- (3) This warranty is invalid under following conditions
 - Mechanical or electrical modification(s) are performed to the product or it is otherwise altered manually.
 - Product is already been serviced at place(s) other than the manufacturer.
 - It is determined that product malfunction has resulted from improper use or from an accident.
 - A copy of dated sales receipt has not been submitted together with the product to be serviced.



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