

Exhibit E

User's Manual

OPTEX CO., LTD.

FCC ID.:DC9TD-10U

Indoor/Outdoor Sensor Transmitter

WIRELESS 1000 Annunciator System



TD-10U Indoor/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.

- 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
- Digital coding more than 4,000,000
- Powered by 9-Volt alkaline battery (not included)
- Low battery signal
- LED Indicator

CAUTION

Please be careful of the following.

1. Outdoor Use

This product is fit for outdoor use.

2. Extreme Temperature & Contamination

Do not install this product where it may be exposed to steam, oily smoke, or direct hot and cool air from an air conditioner.

3. Light

Direct sunlight or automobile light may cause false alarm.

4. Obstruction

If there are moving obstructions such as laundry, tree limbs or curtains (movement may be caused by wind etc.), the detector may trigger false alarms.

5. Other Electric Devices

Use this product 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 a functional error).

6. Maximum transmission range may decrease under following conditions.

- In cases where there is a steel door, steel reinforced concrete or other metal obstructions between the transmitter and the receiver.
- Installing either the transmitter or the receiver on a metal surface.
- Places near a strong radio source such as a broadcast station or high power lines.

7. Impact/Shock

Do not drop this product or give a strong impact/shock.

8. Tampering

Do not tamper or perform modification to this product.

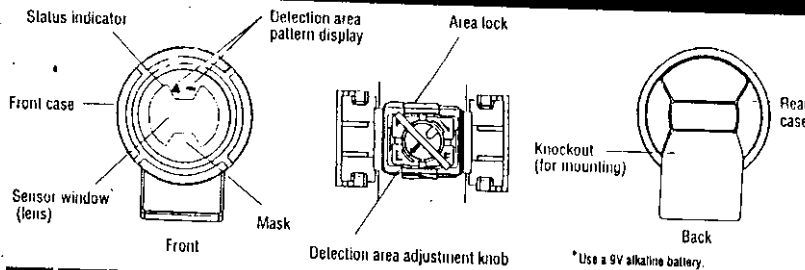
9. Battery Replacement

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

10. Cleaning

Use a soft cloth with neutral detergent when cleaning. (Paint remover or benzene may ruin the surface.)

PART IDENTIFICATION



MAXIMUM TRANSMISSION RANGE

TD-10U 1000ft. (open field, line of sight)

Above measurements were obtained over flat level ground without obstruction. The receiver and the transmitter were mounted 5ft. (1.5m) above ground. The transmission range may be shortened by obstacles (natural or man-made) in the transmission path or other environmental factors. Installation should be performed while confirming the actual transmission. Please use the recommendation below as a reference.

Stucco/Plaster construction: Up to 150ft.

Reinforced concrete construction: Up to 100ft.

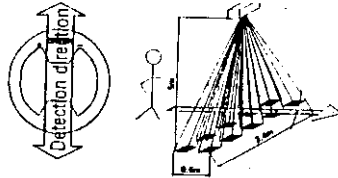
DETECTION AREA ADJUSTMENT

You can choose from the two types of detection area as shown in the diagram. Each detection area setting has directional orientation. Using the appropriate detection area setting enhances

accurate detection. The product is set to "fan-pattern" at the time of shipping.

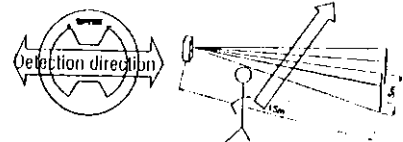
Fan Pattern

When using fan-pattern setting, install the detector in a way that an approaching person passes through the detection area in the direction shown in this diagram.



Long Range

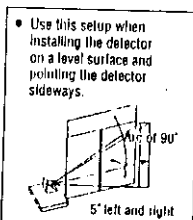
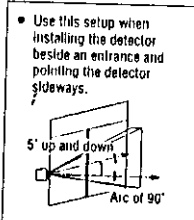
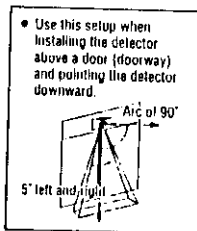
When using long-range setting, install the detector in a way that an approaching person passes through the detection area in the direction shown in this diagram.



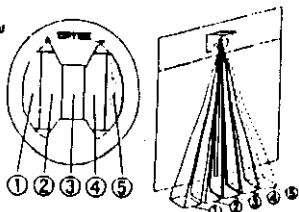
Various Methods of Installation

Fan pattern

Various Ways To Setup Detection Area



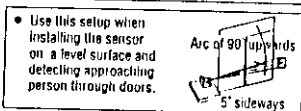
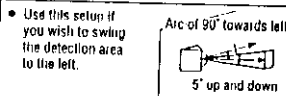
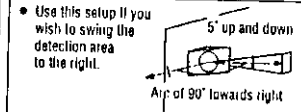
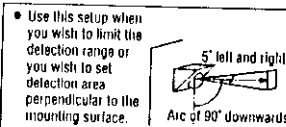
• If there is an area within fan-pattern detection area that you do not want to include, mask part of the lens with a tape.



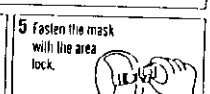
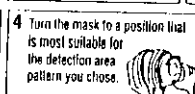
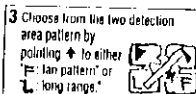
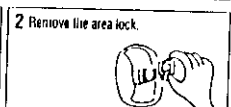
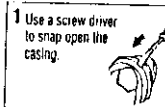
Various Methods of Installation

Long range

Use these setups if there is a need for avoiding small animals causing false alarms. Make sure the detector is installed at least 3ft. above ground.

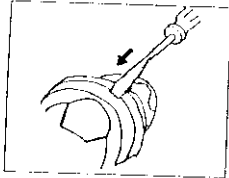


How To Choose Detection Pattern

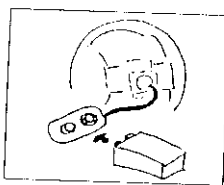


Notice : The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

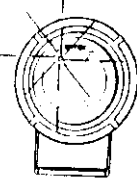
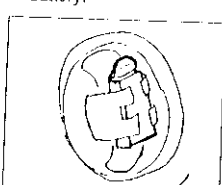
1. Use a screw driver to snap open the casing.



2. Fasten the battery with the battery clamp hook.



3. Attach the connector to a battery.



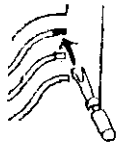
- When the power is low, the status indicator starts to flicker. Replace the battery in such case, even if the battery is less than 2 years old.
- Low power may become the cause of false alarm.
- There is no need to reregister the detector/transmitter even if you remove the battery.

REGISTERING THE TRANSMITTER

The detector/transmitter must be registered with the receiver before use. Refer to the receiver's manual for details.

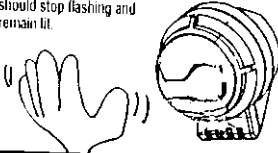
1. Preparation

- Ready the receiver for registration
- Press Switch 1 of the receiver until power indicator starts to flash.
- Select the channel you wish to register the detector/transmitter with switch 2



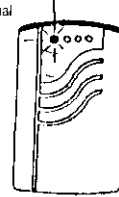
2. Activation

- Wave a hand in front of the this product to activate it.
- Verify that the transmitter is registered. The channel indicator of the receiver should stop flashing and remain lit.



3. Verification

- Return the receiver to normal operating mode.
- Make sure that the receiver operates correctly with all the transmitters you have registered.



Note:

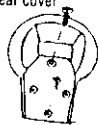
Put this product in a bag or point it towards a wall in order to avoid prematurely activating the unit until you are ready to register. It may make unwanted detection and be registered on a wrong channel overriding old data.

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 few screws.



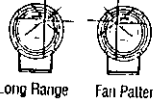
3. Close the casing.



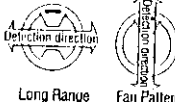
4. Make sure that detection area covers the intended area.



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



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



CONFIRMATION

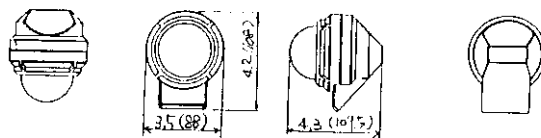
- Wave a hand close to the floor, if you have chosen fan-pattern and installed the detector on the ceiling pointing down. By watching the LED indicator, you can find the boundaries of detection area.
- If you installed this product pointing sideways, walk by the detector to find boundaries.
- Place the detector close to an entrance. A would-be intruder may go around the detection area otherwise.
- Make sure that the detection area is blocked by a wall or a floor. The detector 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
Status Indicator	Red LED
Power Source	9V Alkaline Battery
Battery Life	Approx. 2 year (500 times per day)
Frequency	418MHz
Operating Temperature	15°F-120°F(-10°C ~ +50°C)
Installation Location	Outdoor/Indoor
Accessories	Mounting Screw x 2
Weight	

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 places 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.

OPTEX OPTEX CO., LTD. (ISO 9001 Certified by LRQA)
4-7-5 Minohama Otsu 520 0801 Japan
TEL (077) 524-6047 FAX (077) 522-9022

OPTEX AMERICA, INC.
365 Van Ness Way, Suite 510, Torrance, CA. 90501
TEL (310) 533-1500 FAX (310) 533-5910

OPTEX (EUROPE) LTD. (ISO 9002 Certified by NQA)
Clivemont Road, Cordwalis Park, Maidenhead, Berkshire SL6 7BU U.K.
TEL (0628) 31009 FAX (0628) 36311

TROUBLE SHOOTING

1. The system is not operating.

Check the transmitter.

- Does the LED indicator light up when you walk in front of the detector? → If not, check to see if the battery is inserted correctly. Otherwise try a new battery.
- Is the LED indicator flashing? → Is the detection area setting appropriate? If not, fix the setup.
→ 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 detector. → The detector is not properly registered by the receiver. Reregister the detector.
- The reception 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 detector. Metal objects can shorten the effective transmission range.

2. The system is not operating correctly.

- A particular channel is malfunctioning. → It is probably the transmitter's problem. Check transmitters using this channel.
- Are there small animals in the area? → Refer to DETECTION AREA ADJUSTMENT and different installation site or a setup.
- Does direct sunlight or light from automobile enter the detector lens? → Reorient the detector to avoid such light source.
- Is the detector installed on a stable platform? → Relocate the detector 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 detector? (i.e. a conditioner) → Relocate the detector to another place.

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