

PASSIVE INFRARED WONDEREX

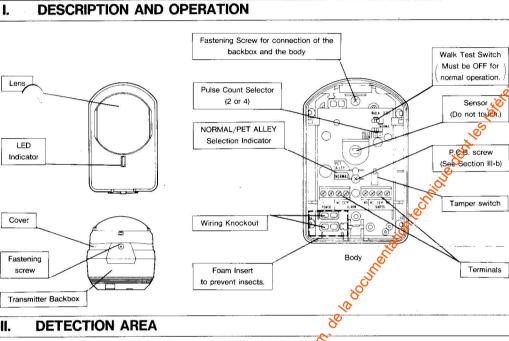
EX-35R

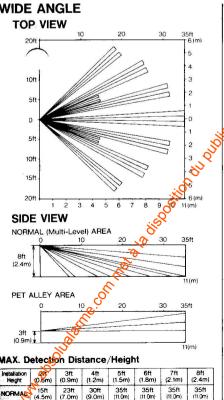
(BATTERY OPERATED)

This Passive Infrared Detector is powered by a 3~9V Alkaline Battery or Lithium Battery and is designed to be used with a transmitter of a wireless security system.

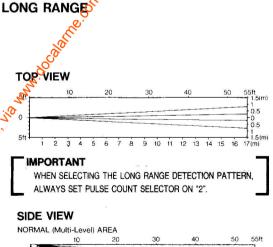
FEATURES

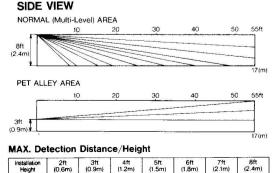
- Low Current Draw : 3.5μA (In Standby). · Operates on Wide Range of Power Input : 3~9V Alkaline Battery or Lithium Battery.
- · Battery Saving Circuit: The alarm circuit will not be active until there is a 2minute period of inactivity in the pattern area.
- · Switchable LED for walk test or normal operation (Switch LED off after installation to increase battery life).
- Backbox can conceal a wireless transmitter circuitboard (W 1.97inch(50mm) × H 3.15inch(80mm) × D 0.91inch(23mm)).
- · Selectable "WIDE ANGLE" or "LONG RANGE" detection patterns.
- · Selectable "NORMAL" (Multi-Level) and "PET ALLEY" detection patterns.
- · Selectable pulse count 2 or 4. · Tamper switch.
- · Connector Clip which can be used to supply power from a common battery and 9V Battery Clip are attached.





35ft (11.0m) 30ft (9.0m)





| Installation | 2ft | 3ft | 4ft | 5ft | (1.5m) | (1.6m) | (2.1m) | (2.4m) | (3.5m) | (3.5m)

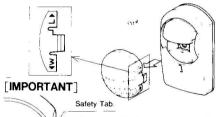
III. AREA PATTERN SELECTION

a) SELECTING WIDE ANGLE OR LONG RANGE FATTERNS

NOTE: The detection pattern is pre-set at the "W" (Wide Angle) position.

- Inverting the lens will select either the Wide Angle or Long Range detection patterns.
- Please note markings "W" (Wide Angle) and "L" (Long Range), on each side of lens.

For Wide Angle detection the "W > " points downward." For Long Range detection the "L > " points downward.



When the "L" (Long Range) pattern is used the "Safety Tab" MUST be removed (See illus.), and the Pulse Count Selector set at "2".

· Verify Pattern Selection / Lens Position, as follows.

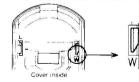


"Tapered Edge" (Only one of the two tabs is tapered.)

– Example –

For Wide Angle patterns, the tapered edge on the Lens (See illus.) points to the "W" on the cover.

For Long Range, the tapered edge points at the "L".



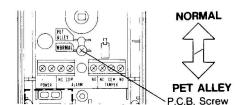
Tapered edge of tab inserted in the Wide Angle position

SELECTING NORMAL (Multi-Level) or PET ALLEY DETECTION PATTERNS.

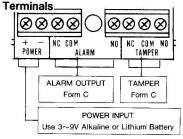
{Detector is pre-set at the "NORMAL" position}.

1. Loosen screw (see illus.), and slide the "P.C.B."
(Printed Circuit Board) up or down to match the arrow with the desired pattern (see illus.).

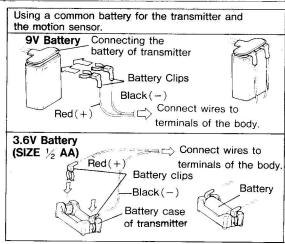
Carefully —Tighten screw when complete —



IV. WIRING



- EX-35R has battery clips which can use the transmitter's battery as a common power source.
- Follow the illustration on the right when using transmitter's battery in common with sensor's power.
- Attach the battery clips tightly.
- Do not short-circuit, clips, leads or battery with other metallic parts.



V. WALK TEST SWITCH

JUMPER PIN SWITCH

NORMAL

WALK TEST

Walk Test

- 1)LED will light whe detector is tripped.
- 2) Alarm will be senerated instantly on detection.

NORMAL: Normal Operation (Battery Saving Mode)

- 1) LED is off.
- After every output trip, the battery saying circuit requires 2 minutes of mactivity before another output is activated.

VI. TROUBLE SHOOTING AND MAINTENANCE

PROBLEM	PROBABLE CAUSE	REMEDY	
	Incorrect detection area.	See Section II. V . (Condect walk test)	
	Transmitter is not connected to PIR.	See Section IV.	
No alarm event even though someone is walking in detection area.	Wireless transmission does not reach the receiver.	Gleck transmitter.	
	Battery is dead.	Change batteries.	
	Walk Test Switch is OFF.	Battery saving circuit See Section V.	
	Incorrect polarity to detector.	Switch positive and negative at terminal.	
	Incorrect power supply voltage. (disconnection, low voltage)	Check for correct wiring or non battery.	
Alarm condition when no	Moving object within area. (curtain, wall hanging, etc.)	Remove object from detection area.	
one is moving in the area.	Repid terperature changes of object. (heater, air-conditioner, etc.) wihin area.	Remove the sources from detection area or relocate detector.	

VII. MAINTENANCES

- O Conduct walktest at least once per year to confirm proper operation.
- When using EX-35R and a transmitter in common, the battery life will be shortened depending on the transmitter type (Current Draw). Use of EX-35B, only the expected battery life is shown in the chart on the right. The battery life will change depending on the temperature.

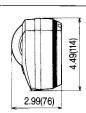
Battery Life	App 3 years/9V Alkaline Battery (560mAH)
(EX-35R only)	App 7 years/3.6V Lithium Battery (850mAH)
	App 10 years/9V Lithium Battery (1200mAH)

VIII. SPECIFICATIONS

Model		EX-35R
Detection method		Passive infrared
Coverage		WIDE: 35ft × 35ft (11m × 11m) 85° wide
		LONG: 55ft × 5.5ft (17mg 1.7m) Long Range
Detection	NORMAL PET	WIDE: 64 zones/28 zones
zones	ALLEY	LONG: 12 zones/42ones
Mounting Height		NORMAL 4~8ft (1.2~23m). PET ALLEY 2~4ft (0.6~1.2m)
Sensitivity		3°F (1.6°C) at 2ft/sec. (0.6m/sec.)
Detectable speed		1~51 sec. (0.3~1.5m/sec.)
LED indicator		Disabled during normal operation
LED III	dicator	Alam indicator optional (Walk Test)
Alarm period		Approx 2.5 sec.
Alarm output		Fom C-Solid State Switch 10VDC 0.01A max
Alarm interval		Alarm output is inactive until there is a 2minute period of inactivity in the pattern area.
Tamper switch		Form C
Pulse Count 💍		Approx 20sec 2 or 4
Pulse	Count	IMPORTANT: WHEN SELECTING THE LONG RANGE DETECTION PATTERN, ALWAYS SET PULSE COUNT SELECTOR ON "2".
Warm up perice		Approx 1 minute

3~9V Alkaline Battery or Lithium Battery 2.3~10VDC		
		3.5μA (In Standby)
10mA (In Walktest, LED on)		
5.0oz (142g)		
+14°F~+122°F (-10°C~+50°C) 95% max No Alarm 20V/m		

Dimensions



inches (mm)

Space for a transmitter W 1.97 (50) × H 3.15(80) × D 0.91(23)

*Specifications and design are subject to change without prior notice. NOTE

This unit is designed to detect movement of an intruder and activate an alarm control panel. Being only a part of a complete system, we cannot accept responsibility for any damages or other consequences resulting from an intrusion.



2.76(70)

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