

PASSIVE INFRARED DETECTOR

1 YEAR WARR

INSTALLATION INSTRUCTION

FEATURES

- ·LX-402 :40ft.(12m) 120° Wide Angle
- ·LX-802N:80ft.(24m) Long Range
- Selectable Detection Area Patterns
- ·Day/Night Mode
- ·Waterproof (IP Rating:IP54)

FUNCTION

- ·Selectable Pluse Count (TEST or 2)
- ·Selectable Sensitivity (H , M or L)
- ·Form C Relay Output
- ·Tamper Switch

OPTION

Ceiling Mount Bracket : CA-2C

·Multi-Angle Wall Mount Bracket :CA-1W

Adjust ±45° (Horizontally)

Adjust 0 - 20° (Vertically downwards)

Safety-Related Precautions

Before installation, make sure to read this instruction manual carefully for safe and effective propduct operation. After reading this installation instructions, make sure to keep it in a conveninet place for future use.

Warning

This icon denotes a situation involving the risk of serious injury or even death, if the warning given is ignored.

Caution

This icon denotes a situation involving the risk of serious injury or damage to property if the warning given is ignored.







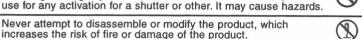
This icon indicates actions to be avoid. Details of the actions to be avoided are written beside or near icon.



This icon indicates instructions that should be strictly followed.



Never attempt to disassemble or modify the product, which increases the risk of fire or damage of the product.



To avoid the risk of electric shock, never touch the main body of the product with wet hands (Also, if the product is wet after rain, do not touch it). Never connect the terminal with higher power supply or current draw over the specification. It increases the risk of fire or damage



to the product.



Caution

Avoid applying water directly from brackets, houses, or otherwise splashing water directly onto the product. It increases the risk of damaging the product.

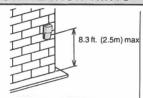
Never use this product for any application expect purpose for detecting moving object such as human or car. In addition, never



Clean and inspect the device periodically for safe operation. If any defect is detected, ask your local shop to repair the device.



1.INSTALLATION HINTS



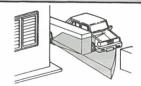
Maximum mounting height is



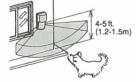
Mount the detector directly to a wall or ceiling with the optional bracket(model CA-1W or CA-2C).



Avoid moving objects in the detection area (i.e.swaying trees, bushes, etc.).



Aim the detector at wall or the ground, to aviod unwanted detection.



When using the pet alley area, the mounting height should be between 4-5ft.(1.2-1.5m).



Avoid looking directly at air conditioning or heating vents.

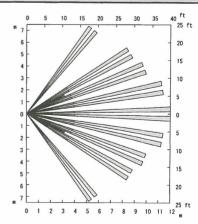


Avoid vapor or high humidity that can cause condensation.

2.DETECTION AREA PATTERNS

LX-402

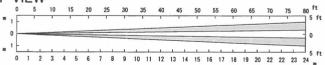
A. TOP VIEW



B. SIDE VIEW

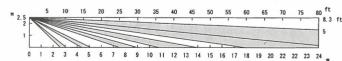
1.Multi-Level Area " 8.3 ft 3 4 5 6 7 8 9 10 11 12 2.Pet Alley Area

LX-802N

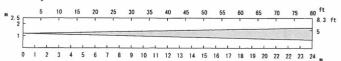


B. SIDE VIEW

1.Multi-Level Area

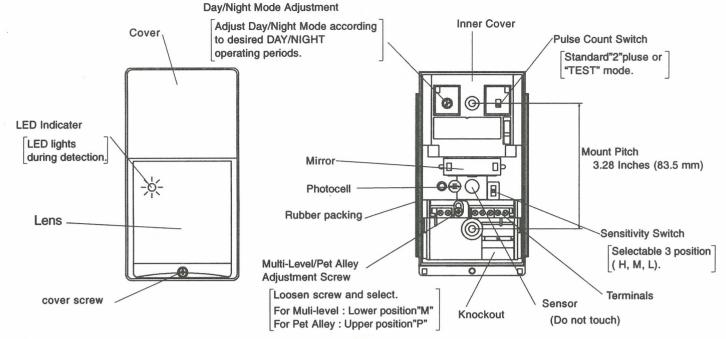


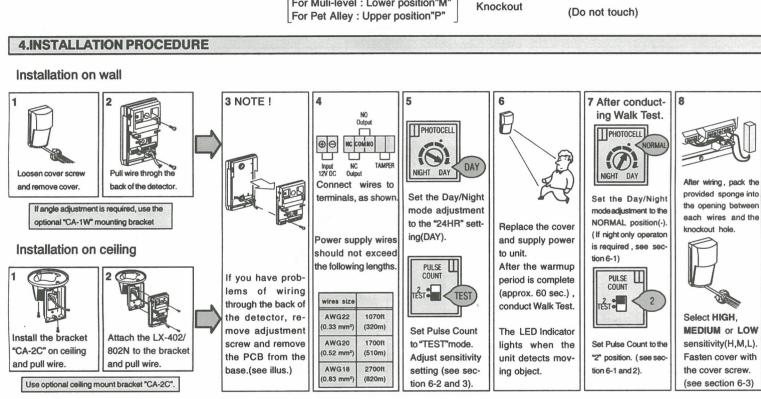
2.Pet Alley Area



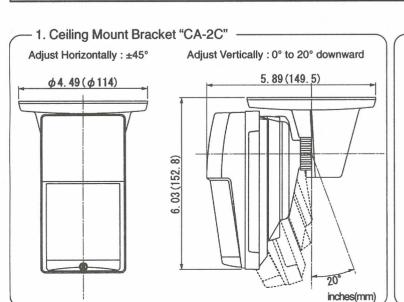
This product detects temperature differences between the moving object and the background temperature in the detection area. So, if the object dose not move, the detector can not detect it, and changing of the temperature differences may affect the detector's detection range.

Additionally, since this product has directional characteristic it is difficult to detect the target that is approaching the detector.





5.OPTIONAL BRACKETS



2. Multi-Angle Wall Mount Bracket "CA-1W" Adjust Horizontally: ±45° Adjust Vertically: 0° to 20° downward 2. 95 (75) 4. 87 (123. 5)

Note! Maximum mounting height is 8.3 ft (2.5m)

inches(mm)

1. Day/ Night Mode

Adjust the Day/Night Mode switch of the detector according to the brightness of the surrounding area.



NORMAL Position

: To have the standard detector function only during evening/night time, set the dial to the reference position (\cdot).



: To have the detector begin to function while the surrounding area is lighter, turn the dial gradually to the DAY side.



: To have the detector function only after it has become dark, turn the dial gradually to the NIGHT side.



: To have the detector function at all time, or to perform a walk test, set the dial to the DAY position.

Unit is pre-set at "NORMAL" position.

2. Pulse Count Swich-



"2" mode

: Select "2" for normal applications. (STANDARD Position)



TEST" mode

: Select "TEST" mode when conducting WALK TEST, or for use in extremely stable environments.

Unit is pre-set at "2" position.

3. Sensitivity Switch -



: Use "M" position for normal applications. (STANDARD Position)



: Use "H" Position when you need high sensitivity. (ex.Pet Alley Area)



: Use "L" position in areas that may be unstable.



Unit is pre-set at "M" position.

7.DETECTION AREA ADJUSTMENT

- Changing vertical detection area

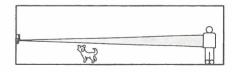
1.Multi-Level Area



Use this area for normal applications.

Unit is pre-set at "Multi-Level" setting.

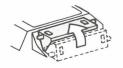
2.Pet Alley Area



Provide a horizontal detection pattern with no declination of zones, allowing pets to move through the area.

Selecting Pet Alley Pattern





Carefully loosen the adjustment screw.

Slide the cover down and fasten the screw at the "P" position.

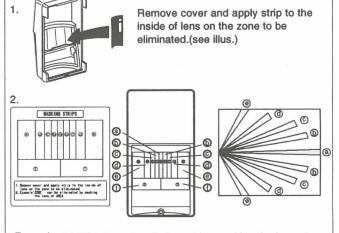
Flip the Mirror to the upper position.

NOTE! Sensitivity setting must be one step higher position when pet alley area is selected.

Pet Alley Area will not function if two changes are not NOTE! performed.

Eliminating unwanted detection zones -(LX-402 only)

Unwanted detection zones can be eliminated by simply masking the lens with the provided masking strip, as follows:



Example :ZONE "a" can be eliminated by masking the lens at area "a" (see illus.).

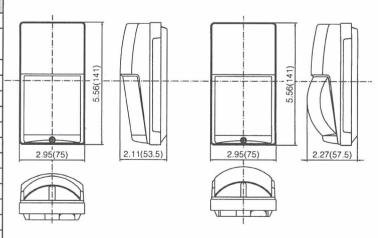
8.TROUBLE SHOOTING

PROBLEM	PROBABLE CAUSE	REMEDY
LED does not light up.	Improper power supply voltage. (disconnection, low voltage)	Confirm the power supply is under specification.
	Wrong polarity	Switch positive and negative at terminal.
	The detector is in warm up period.	Wait for.(approx. 60 sec.)
	The Day/Nigth Mode Adjustment knob setting is inappropriate.	See section 6-1. Confirm the adjustment knob.
	Incorrect detection area.	See section 2.
LED lights up even though no one is in detection area.	Moving object within area. (curtain, wall hanging, etc.)	Remove the object from the detection area.
	Improper power supply voltage.	Confirm the power supply is under specification.
	The unit is detecting presons, cars or other objects beyond the set area.	Check the detection area.
	Temperature of object within area is changing rapidly (heater, air conditioning, etc.)	Remove the heat sources from the detection area.
	Relay contact is stuck or damaged due to overloading.	Check load of output.
		The unit needs repair or replacement.
	Faulty wiring.	Wire correctly.
The LED lights up, but there is no	Alarm output connects to other devices as follows.	
relay output	when NC output is used	when NC output is used
	:connect in parallel.	:connect in series.
	when NO output is used	when NO output is used
	:connect in series.	:connect in parallel.

9.SPECIFICATIONS

Model		LX-402	LX-802N	
Detection method		Passive Infrared		
Detection area		40ft×50ft(12m×15m) 120°wide	80ft×6.6ft(24m×2m) Long range	
Coverage	Multi-Level Area	40 zones	12 zones	
	Pet Alley Area	18 zones	4 zones	
Mounting height	Multi-Level Area	8.3ft (2.5m) max		
	Pet Alley Area	4-5ft (1.2-1.5m)		
Detection speed		1-3.3ft/sec. (0.3-1.0m/sec.)		
Sensitivity adjustment		Selectable 3 position (H,M,L)		
LED indicator		LED lights during detection		
Alarm period		2±1 sec.(Delay timer)		
Alarm output		NC.NO.28V DC 0.2A max		
Tamper switch		Opens when cover removed.		
Pulse count		2 (20±5 sec.) or TEST(1 pulse)		
Day/Night Mode adjustment		Approx. 10 to 100,000 lux		
Warm up period		Approx. 60 sec.		
Power input		10.8-13.2VDC		
Current draw		25 mA max		
Mounting		Wall (Indoor/Outdoor)		
Operating temperature		-4°F - +122°F(-20°C - +50°C)		
Environment humidity		95% max		
Weight		6.0oz (170g)	6.8oz (190g)	
IP Rating		IP54		
Accessory		Masking strips (LX-402 only),Mounting screw,Sponge		

10.DIMENSIONS



LX-402 LX-802N

inches(mm)

X Specifications may be changed without prior notice for improvements.

Manufacturer:

OPTEX CO., LTD 5-8-12 Ogoto, Otsu, Shiga, 520-0101 JAPAN

Authorised representative in Europe:
OPTEX (EUROPE) LTD. / EMEA HEADQUARTERS

Marandaz House 1 Cordwallis Park, Clivemont Road, Maidenhead, Berkshire, SL6 7BU U.K.

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 can not accept responsibility for any damages or other consequences resulting from an intrusion.



OPTEX OPTEX CO., LTD. (JAPAN) URL: http://www.optex.net

OPTEX INC. (U.S.)

OPTEX DO BRASIL LTDA.

(Brazil)

OPTEX (EUROPE) LTD. / EMEA HQ (U.K.)

OPTEX TECHNOLOGIES B.V. (The Netherlands)

OPTEX SECURITY SAS (France)

OPTEX SECURITY Sp.z o.o. (Poland) URL: http://ww

OPTEX PINNACLE INDIA, PVT., LTD. (India)

OPTEX KOREA CO.,LTD. (Korea) OPTEX (DONGGUAN) CO.,LTD. SHANGHAI OFFICE (China)