

Intertek Testing Services

Aleph International Corporation, FCC ID: DNHXC-001-00

Date of Test: July 5, 1997

8.0 Instruction Manual

Attached is a preliminary copy of the Instruction Manual.

This manual will be provided to the end-user with each unit sold/leased in the United States.

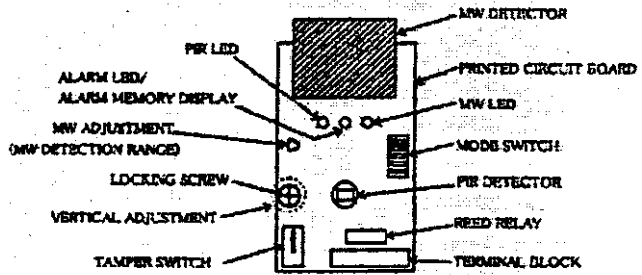
ALEPH

DUAL TECHNOLOGY DETECTOR
XC-1

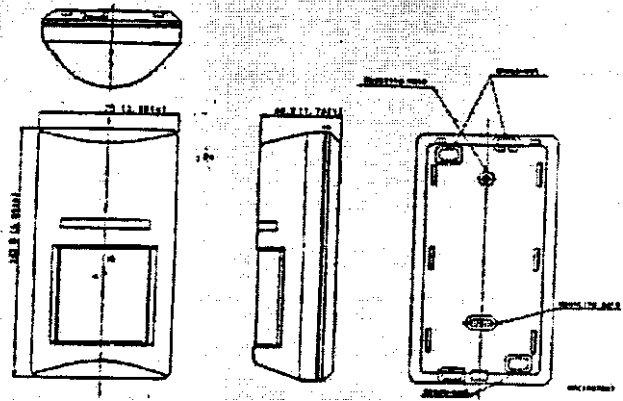
SPECIFICATIONS

Power Requirement	9~16VDC(Normal 12VDC)
Current Draw	30mA max.
Alignment Adjustment	Vertical: $\pm 2^\circ$ Horizontal: $\pm 10^\circ$
PIR Detector	Dual-element
PIR Sensitivity Adjustment	Selectable(60,80,100,120%)
PIR Pulse Count	Selectable(2,4pulses)
MW Detector	MIC Module(10.525GHz)
MW Detection Range	6m~20m(19.7ft~65.6ft)
MW Pulse Count	2pulses
Warm-up Period	50 \pm 15sec
Alarm Period	2 \pm 0.6sec
Alarm Display	Red LED monitor(ON/OFF selectable)
PIR Detection Display	Green LED Blinks
MW Detection Display	Orange LED Blinks
Alarm Memory Display	Red LED monitor(Integral)
Relay Output	N.C. dry Contact 30VDC 0.25A 3W max.
Tamper Contact	N.C.dry Contact 30VDC 0.5A max.
Operating Temperature	-10 $^\circ$ C ~ +50 $^\circ$ C(-14 $^\circ$ F ~ +122 $^\circ$ F)
Environment Humidity	95% max.
Dimensions(H \times W \times D)	113.5mm \times 75.0mm \times 44.2mm (5.65in \times 2.95in \times 1.74in)
Weight	145g(5.1oz)

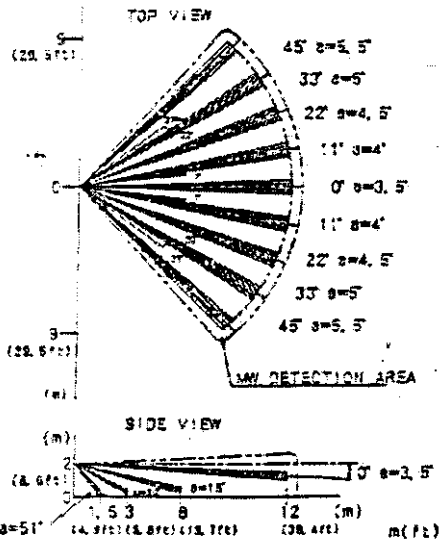
DESCRIPTION



DIMENSIONS

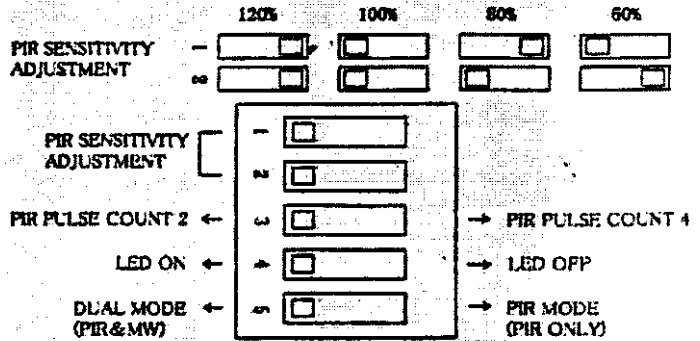


DETECTION AREA

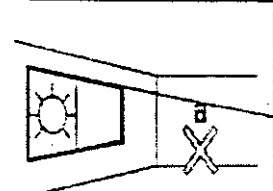


Vertical adjustment: M, PIR Sensitivity Adjustment: 100%

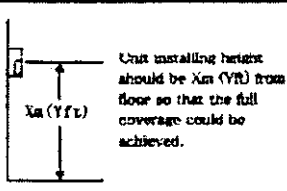
MODE SWITCH



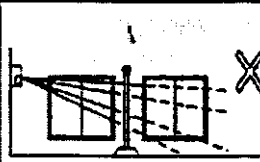
INSTALLATION HINTS



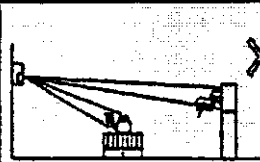
Do not install directly facing window or setting position cause false alarm to occur.



X(m): 2.0 ~ 2.5
Y(r): 6.0 ~ 6.2



Do not limit a desired detection zone by interference of curtains, screens, potted plants, etc.



Also do not locate near sources of water/oil vapors. Avoid placement of heat source inside detection zone.



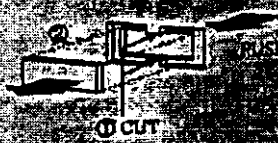
Do not locate the plural XC-1 in a detection zone.

INSTALLATION

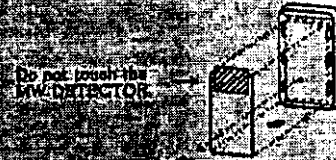
1 Remove cover by loosening the screw on the bottom of the unit.



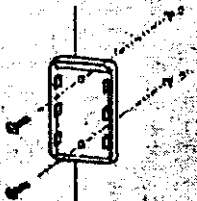
2 To remove back-plate, cut along indications then push out from inside.



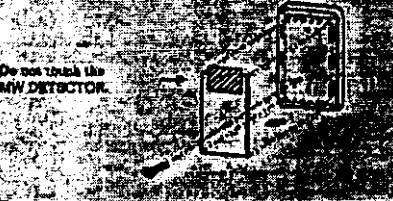
3 Remove the printed circuit board by loosening the screw on it.



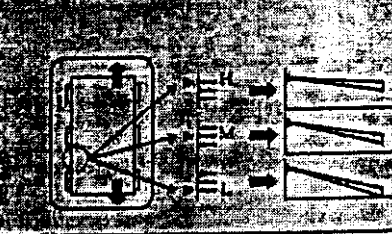
4 Use the two screws supplied with XC-1 to attach the unit to the wall or corner.



5 Return the printed circuit board that was removed in 3 above to its original position and then tighten the screws.



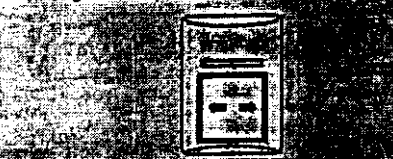
6 Vertical Adjustment—Move center of up or down to clear detection area.



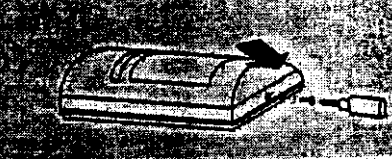
7 Wiring Diagram



8 Loosen retaining screws which prevent make horizontal adjustment by sliding into right or left (+/-10°)

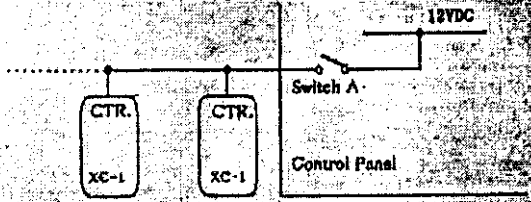


9 To attach cover, hook upper part and push down, then tighten screw at bottom of cover.



ALARM MEMORY

Up to 10 XC-1's may be daisy chained together on a single circuit.



Switch A open: Alarm Memory function is not activated.
 Switch A closed: Alarm Memory function is activated.
 Switch A open: ALARM LED indicates intrusion.
 Switch A closed: Close switch for over 1 second to clear indicator and memory contents.

COEXISTENCE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
 - Increase the separation between the equipment and receiver.
 - Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
 - Consult the dealer or an experienced radio/TV technician for help.
- The user should not attempt to change this equipment without written approval from ALEPH. Modification voids manufacturer's liability for electromagnetic interference.

TROUBLE SHOOTING

Problem	Cause	Remedy
Does not warm up even if power switch on.	No input power or voltage is too low.	Supply the power (voltage 0 to 18VDC).
LED's indicator does not turn on.	MODE SWITCH 4 is LED OFF.	Adjust the polarity.
	Unsuitable adjusting the detection zone.	MODE SWITCH 4 is LED ON.
MW DETECTOR does not operate. (LED indicator does not blink.)	MODE SWITCH 5 is PIR MODE.	Adjust the detection zone.
The Alarm Memory does not work.	No input 12VDC to CTR terminal.	MODE SWITCH 5 is PIR MODE.
MW LED stays lit continuously.	MW DETECTOR causes machine trouble.	Supply the 12VDC to CTR terminal.
		Detach by only PIR after changing the MODE SWITCH 5 to PIR MODE.

TESTING AND MAINTENANCE

Inspection: An inspection of this unit should be made periodically, consisting of, but not limited to, all mounting, wiring, and the condition of all components.
Cleaning: Clean the plastic parts of this unit with a soft, clean, damp cloth.
Testing: This unit should be tested at least once per year for proper performance and operation.
Note: This unit is designed to be incorporated into an overall alarm system. As it is part of the system ALEPH cannot assume responsibility for theft or damage if the system fails to operate.

If you have any questions about this product please contact ALEPH in your nearest office:
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