



Bird Barrier America
20925 Chico Street
Carson CA 90746
(800) 503-5444
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Eagle Eye Installation Instructions

The Eagle Eye Bird Scarer is a 12vdc powered device.

Warning DO NOT APPLY 110vac power directly to the Eagle Eye lead wires as you will permanently damage the unit.

Each unit ships with an installation kit to allow 12vdc or 110vac installation with the kit. The kit includes all of the necessary equipment, wiring, brackets and posts to accommodate most ordinary installations of the units on wall, parapets and rooftops.

Each Eagle Eye includes an installation kit with the following items:

Item	Qty	Description
1)	1 ea	Eagle Eye Bird Scarer Device
2)	1 ea	110vac to 12vdc power supply
3)	25 ft	Low Voltage, direct burial rated lead out wire.
4)	12 pcs	Crimp connectors (6 male, 6 female)
5)	1 ea	Surface mounting bracket
6)	1 ea	10" Extension support tube
7)	1 ea	16" Extension support tube
8)	1 ea	90 degree support tube
9)	4 ea	Interconnection (3") tube
10)	20 ea	Self tapping joining screws





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Recommended Tools

- 1) 1ea Connector Crimping Tool (bb# TO-Q20)
- 2) 1ea Wire Stripper (bb# TO-Q15)
- 3) 1ea ¼" Magnetic Nut Setter (bb# TB-HX10)
- 4) 1ea Electric or battery drill motor
- 5) 1ea Small adjustable crescent style wrench
- 6) 1ea Medium size pliers

Recommended Hardware

- a) Lead Wire Guides (if appropriate) (bb# BS-LW45)
- b) Screws for mounting plate to building surface.

Optional Accessories

- 1) Solar Panel for stand alone operation (bb# EE-PO1)
- 2) Angled Surface Mounting Bracket (roof peak or building corner) (bb# EE-PO5)
- 3) Soil/Turf Mounting Fixture (Supports Eagle Eye and solar panel)
- 4) ¾" EMT Conduit Sections for custom mounting or installation needs
(Available at any hardware store)
- 5) Additional tubing connectors with 45 screws (bb# EE-P07 10 pack)
- 6) Additional support tubing packages
 - a. 90 degree support tubes (5 pack)
 - b. 10" Support tube (5 pack)
 - c. 16" Support tube (5 pack)
 - d. 24" Support Tube (5 Pack)
 - e. 4'-0" Support Tube (5 Pack)
- 7) Additional Wire
 - a. 25ft Low Voltage, direct burial rated lead out wire.
 - b. 50ft Low Voltage, direct burial rated lead out wire.
 - c. 100ft Low Voltage, direct burial rated lead out wire.
- 8) Halogen lighting for shady or interior low light installations (see attached list)
Please review installation guide for placement of lights.
- 9) 24hr Programmable Timer for lighted installations (see attached list)
- 10) NEMA 3R Rated Enclosure for weatherproof mounting of power supply
 - a. You could mount a 110v receptacle inside a case.



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Installation method

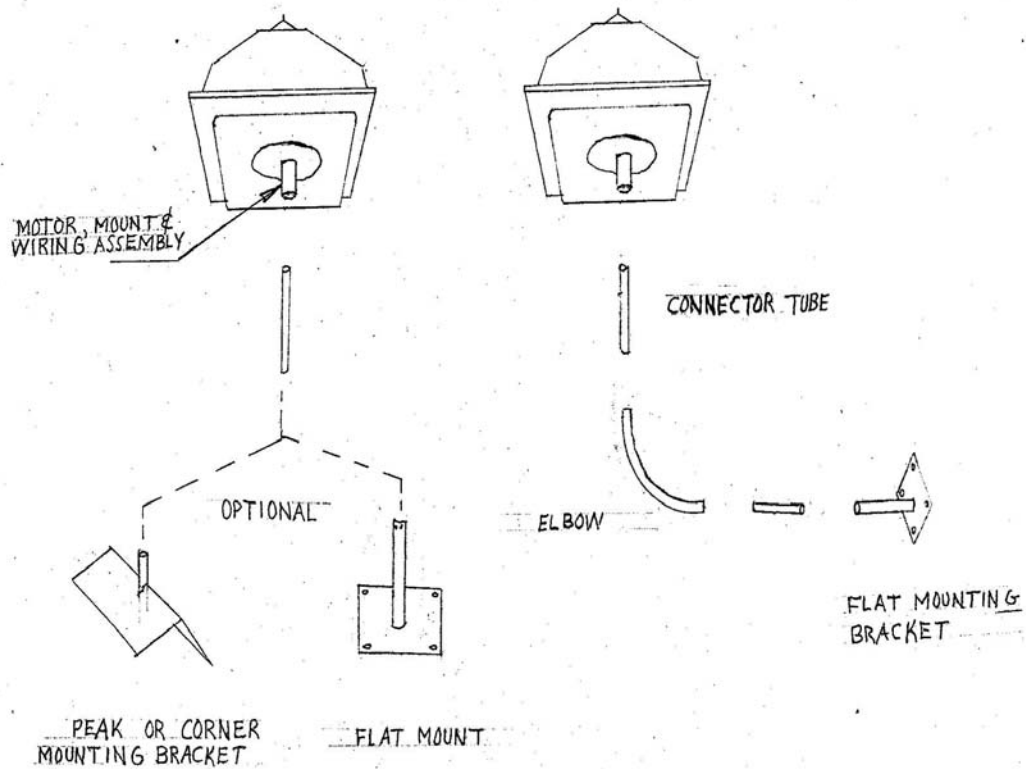
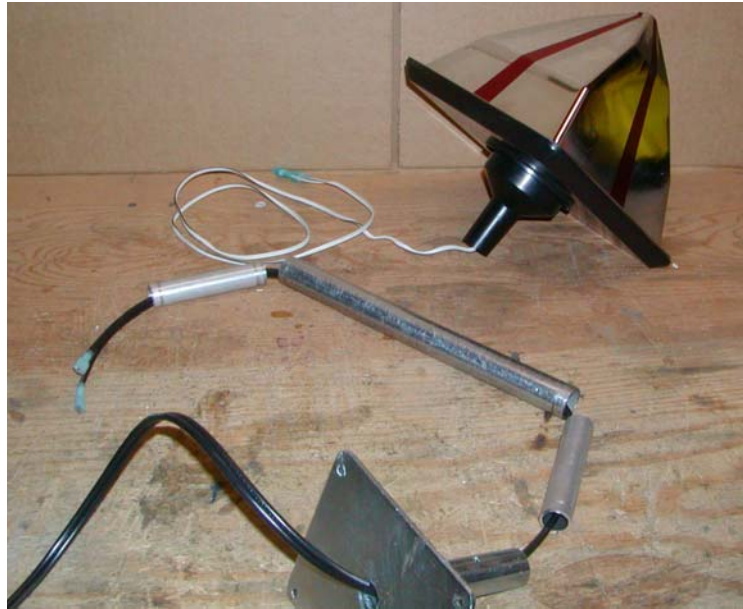
The Eagle Eye should be installed on a solid surface with clear line of sight access over the area to be treated. Please refer to the Eagle Eye Placement Guide for instructions on the best places for installation.

1. Locate a 110vac dry indoor power source for the 12vdc power source.
 - a. Alternatively
 - i. Place the 12vdc power supply unit in a weatherproof enclosure (see optional accessories below)
2. Strip the cut ends of power supply and attaché two male crimps to the ends.
3. When ready to power unit, plug power supply into 110vac power
 - a. Alternatively
 - i. Use the Solar Panel power option to avoid 110vac power requirement.
4. Locate lead wire from power supply to Eagle Eye installation position.
 - a. The lead wire can be
 - i. buried in planter boxes
 - ii. attached to the building with lead wire guides.
 - b. Strip both ends and attach female crimps connectors to the ends.
5. Connect the power supply wire to the lead out wire via the crimp connectors
6. Decide on the orientation of your Eagle Eye
 - a. Review the Placement guide for assistance in determining the orientation of the brackets.
7. Thread remaining end of the lead-out wire through each of the support pieces until it protrudes from the last 3" tube joining piece that will attach to the Eagle Eye.
8. Crimp male connectors to the wire protruding from the Eagle Eye.
9. Starting at the Eagle Eye unit and the first mounting tube.
 - a. Draw the lead wire through the tubing connections until all of the support tubes are very near each other.
 - b. Using the drill motor, magnetic nut setter and small self tapping screws join the support tubes together by setting screws at 90 degree intervals.
 - c. Work your way to the last tubing join.



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Please review illustrations below for clarity.





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Each of the joins will have an overlapped exterior and interior tube, held together with self tapping screws installed at 90 degree intervals.



Example of finished tubing connection to the Eagle Eye.

Completed installation examples:





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Optional Items Specifications:

Halogen Lights and 24 hour timer can be mounted ahead of the power supply unit to control lamps and/or the Eagle Eye in low light installations.

Ahead of the power supply receptacle install a timer

Options:

- a) Inside a weatherproof receptacle
- b) Inside a weatherproof case

Use a qualified electrician to run conduit and place the halogen lights above and to the side of the Eagle Eye units.

Sample Installations:





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24 Hour Timers

1) In Receptacle Enclosure Timer



Intermatic Programmable Timer



This full-featured programmable wall switch timer can control lighting loads or heavy duty loads such as fans and appliances. Suitable for 120/240/277 volts. It offers up to 6 on/off settings per day and is accurate to the minute. This means over the course of a week you can have up to 42 on/off settings.

Four separate programming options are available. You can program the same schedule for the entire week, just for weekdays, just for weekends, or you can program each day individually. The timer features a manual override that can be activated at any time. In the event of a power outage the battery backup will maintain the schedule (one AA battery is included). If you're going to be away you can select random operation to prevent a "timer controlled" look. It has an easy to read LCD digital displays, and will automatically adjust for daylight savings time adjustment if applicable.

This timer will mount in a standard single or multi-gang electrical box. It accommodates a conventional decorator (Decora) style switch plate cover (not included). The timer may be used for single or 3-way switch applications, and may be used in conjunction with dimmers.

- **Switching:** Single Pole or 3-Way (within 30 feet)
- **Capacity (Tungsten Incandescent):** 15 Amp 120 volts AC,



+ Click to Enlarge

2) Programmable Wall Switch

Aube Programmable Switch



This programmable single pole wall switch timer will give you flexibility in controlling lights around your home or office. It has two operating modes. In the manual setting it works like a regular light switch. One press will either turn lights on or off. In the automatic mode it will turn lights on and off automatically according to a schedule you set. The times can store 7 on/off programs (consisting of an "on" time and an "off" time). Each program may be run either for an individual day or for every day.

A wall face plate is not included (it is a Decora style switch) . The color of the switch is white. The switch will maintain its settings even during a power outage.

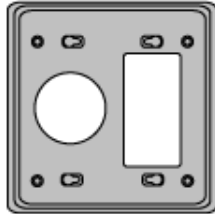
- **Input Power:** 120 volts AC, 50/60 Hz
- **Maximum Load:** 2400 watts, 1 hp, 20 amps
- **Dimensions:** 43 mm x 68 mm x 40 mm, 1.8" x 2.7" x 1.6"
- **Approvals:** CSA, UL
- **Minimum Operating Temperature:** 32 degrees Fahrenheit (0 deg. C)
- **Maximum Operating Temperature:** 122 degrees Fahrenheit (0 deg. C) to 50 deg. C
- **Manufacturer Model #:** T1033



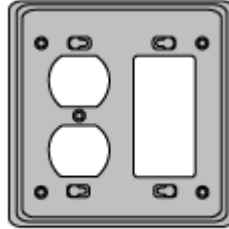


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- 3) Multi Gang Weatherproof Cover for Timer
 Run conduit from the receptacle to the halogen lights
 Put a switched outlet under the in-use the cover for the Eagle Eye power supply.
 Run the power cord for the power supply from the switched outlet to the NEMA 3R case.



1 3/8" Round / GFCI



Duplex / GFCI

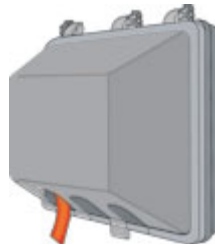
Multi-Mac™

Double Gang In-Use Covers

STANDARD 2 3/4" DEPTH JUMBO 4 3/4" DEPTH



Clear Cover
 MM2440C-B



Grey Cover
 MM2440GY-B

1 UNIT **40** Configurations

Standard 2 3/4" Depth
 Configurations include multiple combinations of:
 duplex, GFCI, switch, 1 3/8" round, 1 5/8" round, 1 3/4" round, 2 1/4" round, and 2 5/8" round
 Weatherproof While In Use
 Available in Clear or Grey
 UL Listed, Meets 2002 NEC
 Quick-Fit (keyed mount)
 Configurations below are for MM2400C-B and MM2400GY-B

- 4) NEMA 3R Weather Proof Case

Rain-Tight Outdoor Enclosure w/ Hinged Cover (NEMA 3R)

These steel enclosures have a drip-shield top to keep falling rain, dirt, and light splashing away from components. No gasket is required. All can be secured with a padlock. Enclosures have a gray powder-coated finish, a steel continuous hinge, a removable inner panel, and 0.31" x 0.56" mounting slots (7649K11 , K45, and K12 have four; 7649K13 , K14, and K46 have six). UL listed and CSA certified.



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Rain-Tight Outdoor Enclosure w/ Hinged Cover (NEMA 3R)



Enclosures with Knockouts— Knockouts on the bottom of the enclosure let you attach conduit and cord grip fittings. Enclosures have a quick-release padlockable latch (padlock not included; $\frac{5}{16}$ " max. shackle dia.). Working depth (area available for component mounting) is approximately $\frac{1}{2}$ " less than the overall depth. Opening size is approximately $1\frac{5}{8}$ " less than overall height and $1\frac{1}{8}$ " less than overall width. Made of 16-ga. steel. Panel height and width are $1\frac{3}{4}$ " less than overall height and width.

Enclosures without Knockouts— Have two screws to secure the cover. Hasp accommodates $\frac{7}{16}$ " dia. padlock shackle. Working depth is approximately 1" less than the overall depth. Opening size is approximately $2\frac{3}{4}$ " less than overall height and width. Made of 14-ga. steel. Panel height and width are 3" less than the overall height and width.