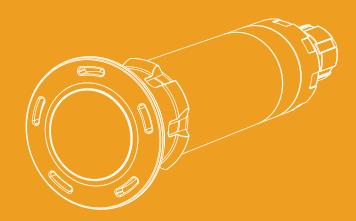


E-Lumen X SERIES

EAGLE EYE Installation and Operation manual



USER MANUAL





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Operation Manua tallation and (

1. IMPORTANT SAFETY AND INSTALLATION INSTRUCTION

Please read the manual carefully before commencing installation. This manual important information about the correct installation and operation of Eagle eye lights.

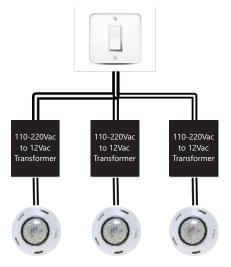
- 1. Only a qualified electrician is allowed to carry out the installation of this product.
- 2. Avoid direct contact with electrical power.
- 3. Respect all regulations in effect to prevent accidents.
- 4. All units are required to be disconnected from the main electricity before any maintenance.
- 5. For safety and proper installation, ensure that those parts supplied with the products are used.
- 6. Never handle with wet hands and feet.
- 7. This unit is designed for use only when fully submerged in freshwater, connecting with a safety transformer.
- 8. This product should be installed according to your local electrical installation ordinance and regulation.
- 9. Due to the corrosive nature of unbalanced pool chemicals, please keep your pool water acid-base balanced before installation, and ensure the longevity of these lights.
- 10. If the external flexible cable or cord of this luminaire is damaged, it shall be exclusively replaced by the manufactory or this service agent, or a similarly qualified person to avoid a hazard.
- 11. Check that there is enough cable behind the light to allow for servicing above water, preferably at ground-level poolside.
- 12. Never operate this underwater light for more than 1 minute unless it is submerged in water.
- 13. Your light requires cleaning at any time, be sure to a mild detergent or other ways that don't damage the light.
- 14. Maximum Depth for light installation at 1.2 meters.
- 15. Maximum water Temperature Range for light operation 0 ~ 25℃.
- 16. The light source of this luminaire is not replaceable; when the light source reaches its end of life the whole luminaire shall be replaced.

2. PRODUCT INTRODUCTION

EAGLE EYE is a slim high efficiency LED light with powerful 18W output. The nicheless design allows installing the light to 1.5 inch/50mm PVC pipes, suction fittings, or wall conduits. An easy-change lens cover provides a handy option for switching the lighting effects. Eagle eye has built in Basic on/off Mode and Colortouch Mode for colour control which are fully operated under 50Hz and 60Hz input voltage frequency. Both mode are compatable with all Emaux E-Lumen X series. The light has individual RGB colour, warm white and cool white LEDs which provides 15 different colour mode for you to choose.

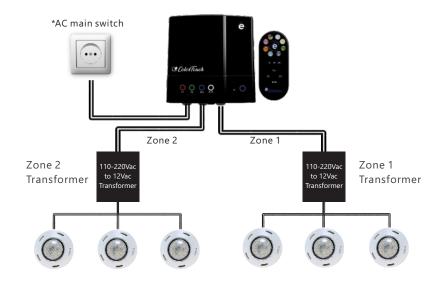
2.1 BASIC ON/OFF MODE

When the light is direct connected to transformer, use main switch on/off to change color.



2.2 COLORTOUCH MODE

It needs to cooperate with ColorTouch Control Box to pick up color and adjust brightness directly. Without this control box, it will be self-determine to basic mode when 12VAC power is connected.



3. LIGHT SPECIFICATION

3.1 Electrical

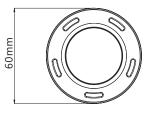
- Operation Voltage Range: AC 11V to 15V (12V typical)
- LED Color: RGB, Warm White (3000K) and Cool white (6500K)
- $\cdot\,$ Operation Frequency: 50 / 60 Hz
- Max Power Rating: 18W
- + Mode of operation: NO/OFF Mode and ColorTouch Mode

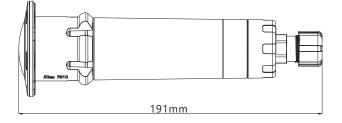
There are six different installation types for Eagle Eye:

| | 1) PVC Conduit | |
|-------|---|--|
| | 2) Vinyl pool / Fiberglass Pool (with EM2836A/E) | |
| 54610 | 3) Panel Pool / Timber Pool (with EM2836A/E) | |
| EAG18 | 4) Concrete Pool (with EM2831A/E) | |
| | 5) Concrete Pool with Conduit (with EM2831A/E+EM2841) | |
| | 6) Concrete Pool + liner (with EM2831A/E+ EM2841) | |

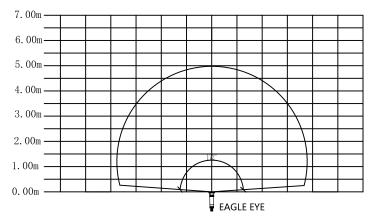
3.2 Dimensions

3.2.1 EAG18





3.2.2 Light Intensive Chart



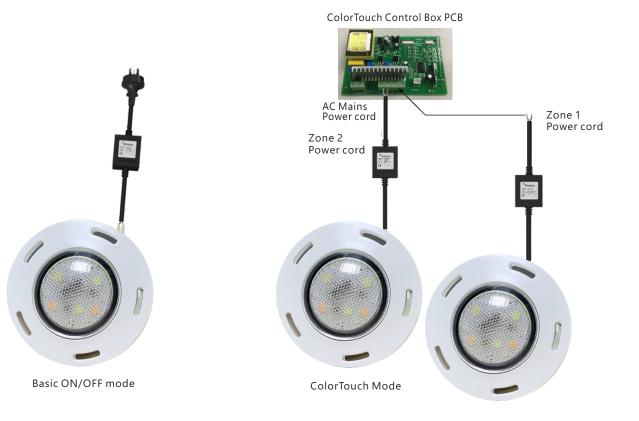
3.3 Color mode

| NO. | Mode | NO. | Mode |
|-----|---------------------------|-----|---------------------------------|
| 1 | Cool White | 9 | Mode C: Blue+Gradual Green |
| 2 | Green | 10 | Mode D: RGB Color Sequence |
| 3 | Blue | 11 | Mode E: RGB Color Sequence |
| 4 | Green+Blue | 12 | Mode F: Auto Color Change |
| 5 | Red+Green | 13 | Mode G: RGB Color Sequence |
| 6 | Red+Green+Blue | 14 | Mode H: Rapid Auto Color Change |
| 7 | Mode A: Blue+Gradual Red | 15 | Warm White |
| 8 | Mode B: Green+Gradual Red | | |

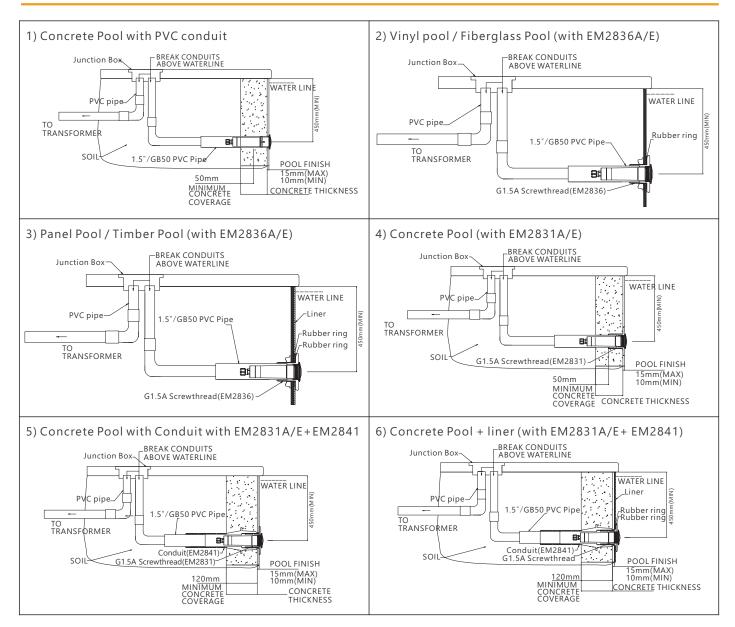
4. INSTALLATION

- 1. It is recommended to install a light every 20m², the approximate exposure area of each unit.
- 2. Lights should be installed in the direction that they will not shine directly into the house.
- 3. For training or competition pools, lights must be installed on the side to prevent swimmers from seeing any glare.
- 4. Nothing should be placed on the pool side directly above the lights for ease of future maintenance.
- 5. Cables connect between each Eagle eye and transformer must be at least 1mm² (AWG18) and the distance between them must not exceed 150ft (50m); otherwise the lights will not function properly.
- 6. Qualified electrician should take the responsibility to decide wire which can fulfil operating condition for this light when more than one Eagle eye is connect to transformer.

4.1 Wiring diagram

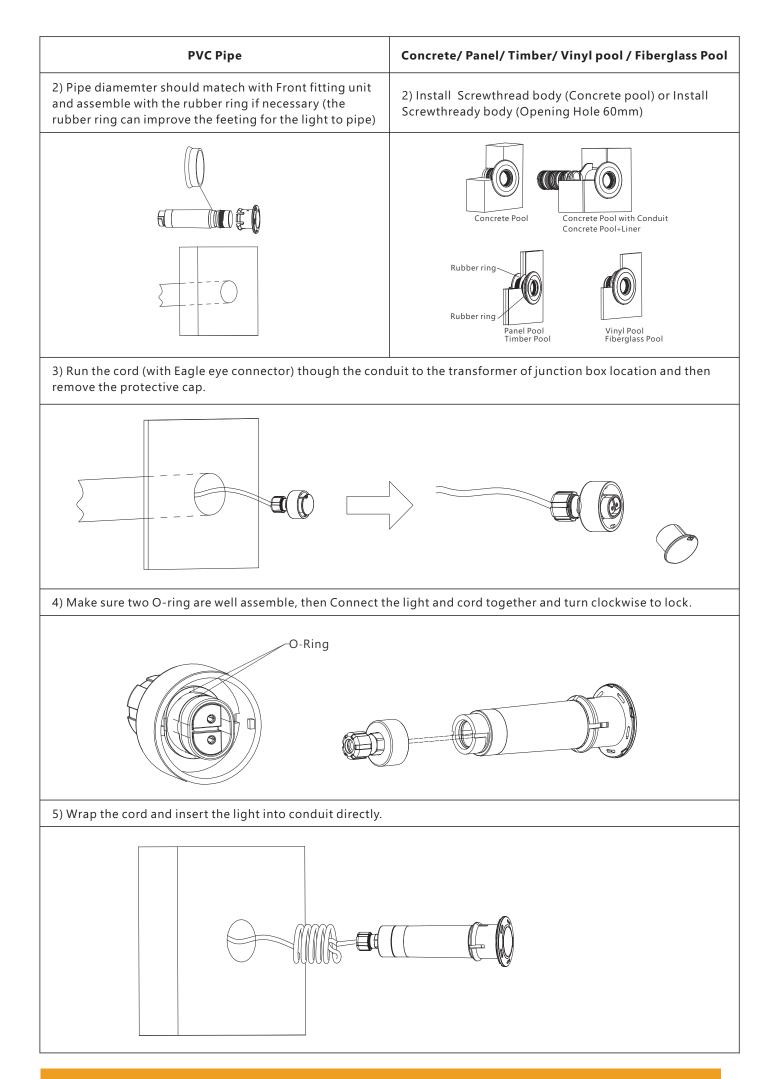


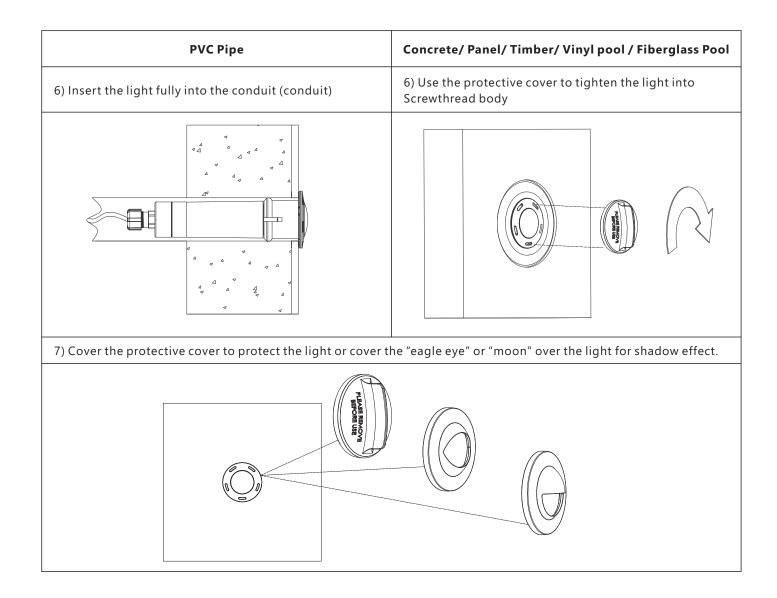
5. LAMP INSTALLATION



Installation Steps:

| PVC Pipe | Concrete/ Panel/ Timber/ Vinyl pool / Fiberglass Pool | |
|--|---|--|
| 1) PVC pipe: Prepare the correct Front fitting unit (A: PN10, B: PN16, 1.5" Class 12/15) | 1) Prepare the correct Front fitting unit | |
| Sum Wid Sum | | |





Installation accessories:

| Pool type | Emaux Part number | Item |
|---|-----------------------------------|--|
| Vind pool (Eikergless Dool (with EM2826A/E) | 91601516 | EM2836A TS 1.5" Solvent |
| Vinyl pool / Fiberglass Pool (with EM2836A/E) | 91601517 | EM2836E TS 50mm Solvent |
| | 91601516 | EM2836A TS 1.5" Solvent |
| Panel Pool / Timber Pool (with EM2836A/E) | 91601517 | EM2836E TS 50mm Solvent |
| | 91601508 | EM2831A 1.5" Solvent |
| Concrete Pool (with EM2831A/E) | 91601509 | EM2831E 50mm Solvent |
| Concrete Pool with Conduit with EM2831A/E+EM2841 | 91601508 91602501 | EM2831A 1.5" Solvent Conduit EM2841 1.5"/50mm Solvent |
| | 91601509 91602501 | EM2831E 50mm Solvent Conduit EM2841 1.5"/50mm Solvent |
| Concrete Pool with liner (with EM2831A/E+ | 91601508 111000007 91602501 | EM2831A 1.5" Solvent Rubber ring D93Xd59X1.5(x2pcs) Conduit EM2841 1.5"/50mm Solvent |
| EM2841) | 91601509 111000007 91602501 | EM2831E 50mm Solvent Rubber ring D93Xd59X1.5(x2pcs) Conduit EM2841 1.5″/50mm Solvent |

Please contact Emaux distributor to order

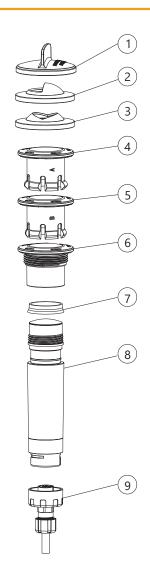
6. MAINTENANCE AND TROUBLESHOOTING

- 1. Do not leave the light on longer than 1 minute when the light is not in water.
- 2. Before switching on the light, check whether the sealing O-ring and screw tightening for the water prove functional and whether the circuit boxes are running properly.
- 3. This unit does not need any kind of maintenance. If it is not working properly, please contact EMAUX authorized dealer where you purchase the unit from.
- 4. Warranty will be voided if the Emaux Eagle eye underwater light was dismantled by unauthorized personnel.
- 5. Do not remove the light protection cap before the Eagle Eye starts operation.

| Trouble | Possible solution |
|-----------------------------|---|
| The light brightness dimmed | Check the voltage output from transformer Check the brightness control if ColorTouch control box is connected Check connections between the light and transformer and control box. Contact qualified electrician to test |
| The light does not light up | Check fuse Check the voltage output from transformer Check connections between the light and transformer and control box Contact qualified electrician to test |

7. SPARE PART LIST

| Item NO. | Part No. | Description | Qty |
|----------|----------------------|--|-----|
| 1 | 440650009 | Protective cover | 1 |
| 2 | 440650011 | Half Moon cover | 1 |
| 3 | 440650010 | Eagle Eye cover | 1 |
| 4 | 440650006 | Sleeve A(for 50mm PVC Pipe PN10) | 1 |
| 5 | 440650007 | Sleeve B(for 50mm PVC Pipe PN16, 1. 5 inch CLASS 12/CLASS 15) | 1 |
| 6 | E043005 | Sleeve (for EM2831A/E, EM2836A/E TS) | 1 |
| 7 | 111040091 | Rubber ring | 1 |
| 8 | E043006 | 12 LEDs Light Body 18W Color(EAGLE EYE) | 1 |
| | E043007 (E043001) | Adapter 2. 5m cable (Adapter 7ft cable) | 1 |
| 9 | E043008 (E043002) | Adapter 15. 5m cable (Adapter 50ft cable) | 1 |
| | E043009 (E043003) | Adapter 30. 5m cable (Adapter 100ft cable) | 1 |
| | E043010 (E043004) | Adapter 46m cable (Adapter 150ft cable) | 1 |



8. TERM OF THE WARRANTY

As the original purchaser of this equipment has purchased from Emaux Water Technology Co Ltd, through an Authorized International Distributor or Dealer, warrants its products free from defects in material and workmanship under normal use during the warranty period. The warranty period begins on the day of purchase and extends only to the original purchaser.

It is not transferable to anyone who subsequently purchases the product from you. It excludes all expendable parts.

During the warranty period, EMAUX authorized reseller will repair or replace defective parts with new parts or, at the option of EMAUX serviceable used parts that are equivalent or superior to new parts in performance.

This Limited Warranty extends only to products purchased from Emaux Authorized resellers. This limited warranty does not extend to any product that has been damaged or rendered defective

(a) As a result of an accident, misuse, or abuse.

(b) As a result of an act of God.

(c) By operation outside the usage parameters stated herein.

(d) By the use of parts not manufactured or sold by Emaux.

(e) By modification of the product.

(f) As a result of war or terrorist attack. Or

(g) As a result of service by anyone other than Emaux Authorized reseller or authorized agent.

EXCEPT AS EXPRESSLY OUTLINED IN THIS WARRANTY, EMAUX MAKES NO OTHER WARRANTIES EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OR MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE EMAUX EXPRESS DISCLAIMS ALL WARRANTIES NOT STATED IN THIS LIMITED WARRANTY. ANY IMPLIED WARRANTIES THAT MAY BE IMPOSED BY LAW ARE LIMITED TO THE TERM OF THIS EXPRESS LIMITED WARRANTY.

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