

# **A0620140 Meteor-140W**

## **Underwater Pool Light**

### **Operating Instructions**



CONTENTS

Preface..... 2

Precautions ..... 2

Features ..... 3

Components and Cable connection ..... 3

Installation .....4+5+7+8

Technical Specifications..... 6

Declaration of conformaty.....9

PREFACE

The METEOR 140W, compact ultra-thin underwater pool light with built-in driver is designed to use the latest LED lighting technology.

The surface-mount designed casing enable very simple installation on the flat surface without any surface preparation during construction and the max. diameter of the hole through the wall is 8 mm.

The METEOR 140W is available in stainless steel casings with 36 warm white highpower LEDs.

The most advanced electronic design with built-in microprocessor enables network connection and simple control of complete group of lights with dimming

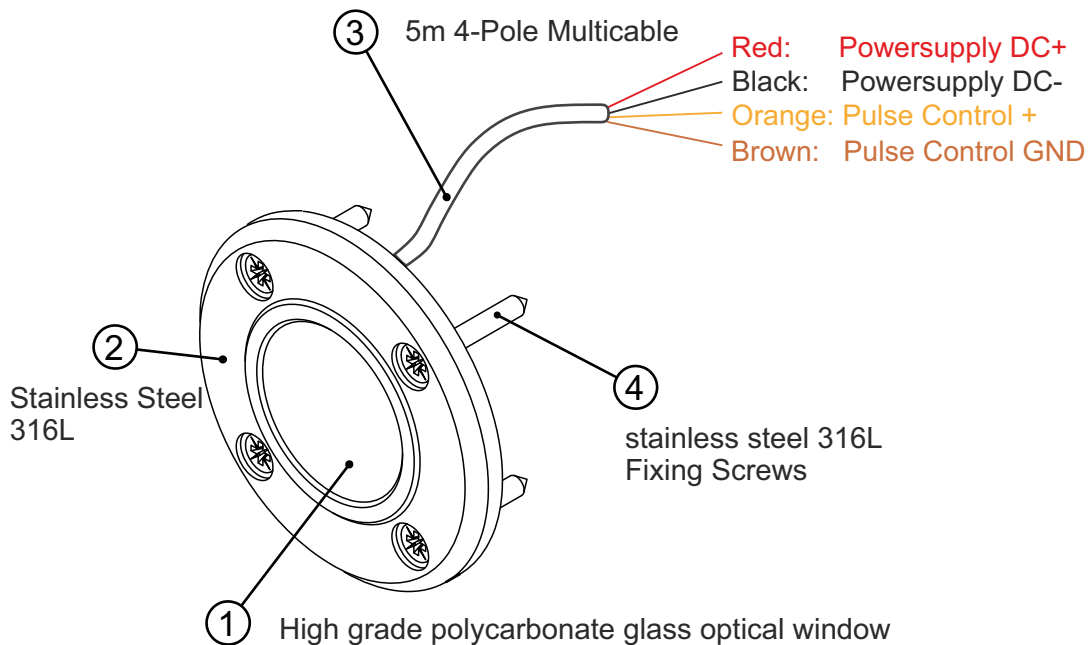
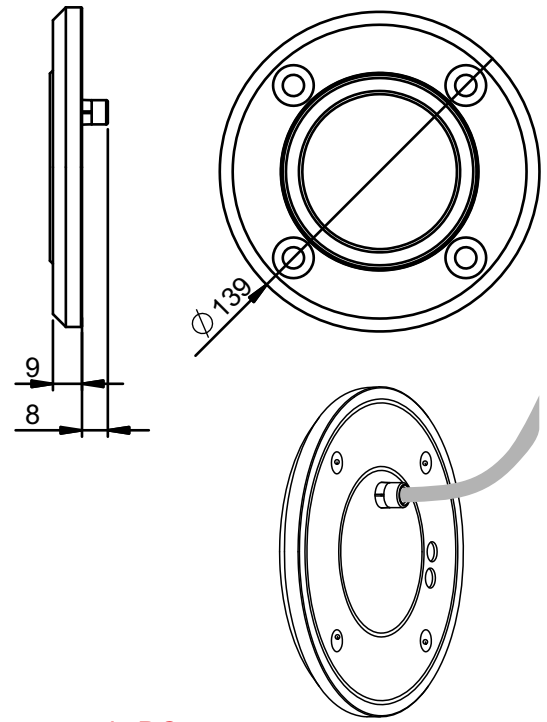
PRECAUTIONS

- The underwater pool light has to be installed and used in accordance with the instructions of this manual only.
- The power supply has to be disconnected before installation.
- The underwater pool light is recomendaded to be installed around 0.2 m below the water line for the best illumination and to avoid over-heating.
- The optical window must be clear and not covered by any kind of isolating or other material.
- The optical window has to be cleaned with a mild soap or detergent and lukewarm water by using a soft cloth or sponge. Do not use abrasive or highly alkaline cleaners.
- Never scrape with razor blades or other sharp instruments. Benzene, leaded gasoline, acetone or carbon tetrachloride should never be used.
- Do turn power off immediately and refer servicing to qualified service personnel if the underwater pool light does not operate normally following the operating instructions.

## FEATURES

- Innovative DesignS
- tainless Steel Ultra-Thin Casing
- 36 Power LEDs Design
- White, Blue, Green or Multi-Color RGB Lighting
- High Grade Polycarbonate Glass Optical Window
- Vacuum Metalized ReflectoR
- Remote Control
- Digital Dimming
- Polarity Protection
- Transient Protection
- Thermal Protection
- Wide Range Power Supply
- Low Power Consumption
- Simple Installation
- Optional accessories for different pools installations

## APPEARANCE



### (1) Optical window

High-grade polycarbonate glass optical window.

### (2) Underwater pool light casing

Stainless steel casing with fixing holes and cable gland.

### (3) Cable

The 4-pole multi-core cable to connect the 12-24Vdc power supply and optional remote control or switch.

### (4) Fixing screw

The fixing screws to fix the underwater pool light on the wall.

## INSTALLATION

The underwater light kit consists of the following components:

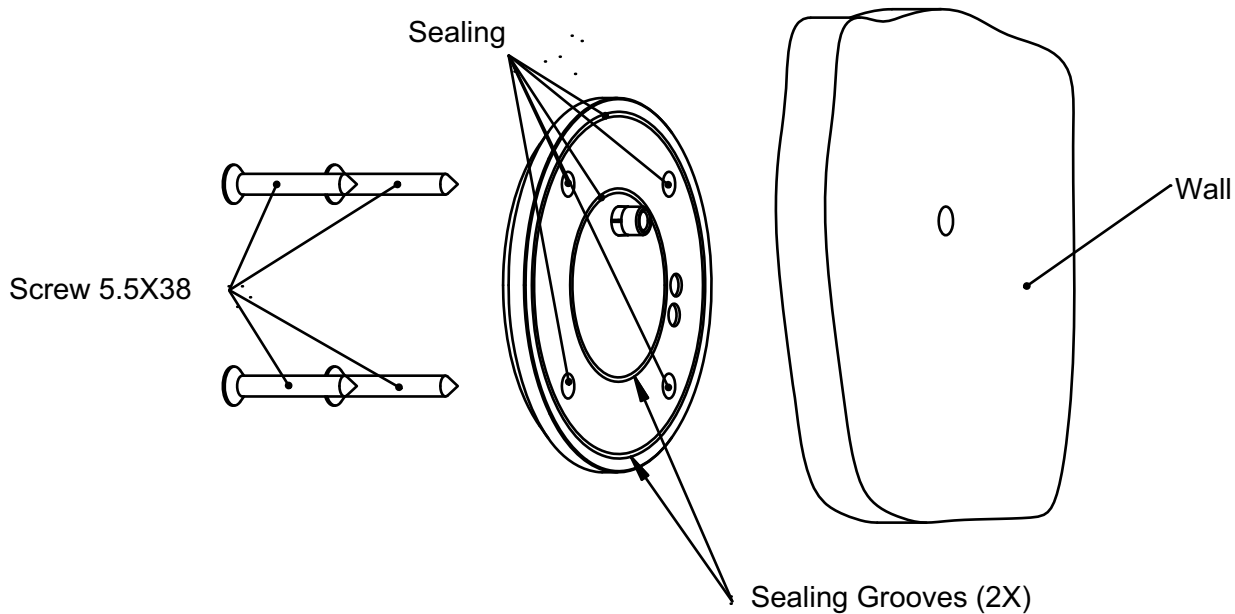
- Underwater Light METEOR 140
- 4 x fixing screw 5.5x38 with wallplugs
- Operating Instructions

The METEOR 120 has to be installed on a flat surface on the pool wall under water line.

Do not try to install the underwater pool light while the pool is filled with water.

When the installation is finished briefly test the underwater light prior to fill the pool with water.

The installation have to be realized by a qualified personnel.



### **Note:**

**Avoid using the underwater pool light out of the water for more than 2 minutes.**  
**The underwater pool light is protected by a temperature sensor against over-heating.**  
**When the temperature of the underwater pool light exceeds 85°C the underwater pool light is automatically switched off.**

### **Wall preparation**

The underwater pool light is recommended to be installed around 0.2 m below the waterline for the best illumination and to avoid over-heating.

To fix the underwater pool light with screws 5.5x38 the diameter of holes drilled into the wall has to be 8 mm.

The diameter of the hole for cable gland drilled through the wall has to be 8 mm.

### **Sealing**

Before inserting the cable with gland through the hole the sealant has to be used into the grooves, around the four fixing holes and around the gland in the rear surface of the underwater pool light. The sealant can be on silicon basis but the best solution is two-component polymer sealant.

### **Fixing**

The underwater light has to be fixed with four screws 5.5x38 with wallplugs.

### **Note:**

**Do not overtighten the screws as this can result in underwater pool light damage.**

Earthing

The underwater pool light has to be earthed by using a pre-tinned green wire with a yellow stripe a minimum of 8 AWG (8.36 mm<sup>2</sup>). The wire has to be connected to the underwater pool light by the help of one fixing screw 5.5x38.

Connection

The power supply has to be connected through the main switch (not included) with correct polarity and protected by a fuse (not included). The power supply voltage has to be from 10 - 30Vdc.

Note:

- The power supply has to be switched off before installation.  
The underwater light has to be connected as described in the table below:

METEOR-140W wire color	FUNCTION
Red	+ DC Power Supply
Black	GND Power Supply
Orange	+ Control
Brown	GND Control

Controls

Remote control can be used to turn-on and turn-off the underwater pool light and to control the luminosity.

Remote control connection

To remotely turn-on and turn-off the underwater pool light the simple switch (not included) can be used and connected to the CONTROL wires by a 2-pole signal cable (not included).

Note:

- If the remote control is not used at single-color models for normal operation the both CONTROL wires have to be bridged and insulated or connected to the GND.

Turning on /off

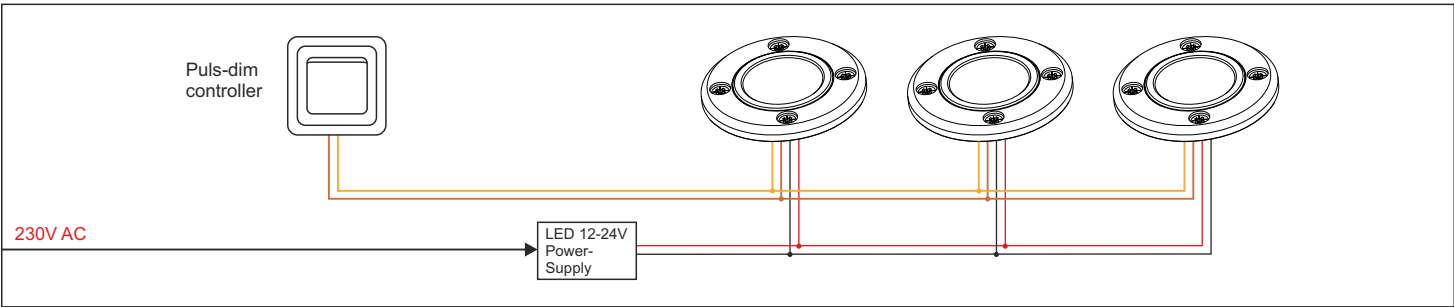
Press the key-switch momentary.

Dimming

When the light is turned-on press the key-switch until the desired illumination is achieved. By another pressing of the key-switch the luminosity will increase to the maximum illumination.

Set default

Press the key switch for min. 40 seconds or until the light is turned off.



## TECHNICAL SPECIFICATIONS

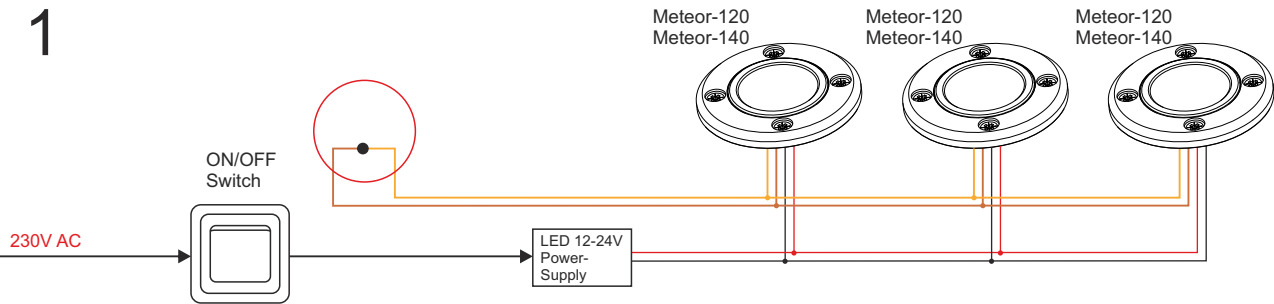
Power supply:	12 – 24 Vdc, max. 4.3A/12 Vdc max. 1.9mA/24 Vdc
Advised Powersupply @12Vdc:	PLN-100 (A9900352)
Advised Powersupply @24Vdc:	PLN-100 (A9900362)
Lens angle:	60°
Optical window:	High-grade polycarbonate glass
Luminous flux:	3900 Lm
White color temperature:	3.000K
Operating temperature:	-10°C - +50°C
Casing:	Stainless steel (316L)
Protection:	IP68
Dimensions:	Ø139 x 9 mm
Weight:	0.8 kg

Highlite international BV  
Vestastraat 2  
NL 6468 EX Kerkrade  
The Netherlands  
ARTECTA Division  
Phone: +31-(0)45-5667734  
Fax: +31-(0)45-5667709  
E-Mail: [artecta@highlite.nl](mailto:artecta@highlite.nl)

*Design and specifications subject to change without notice.*

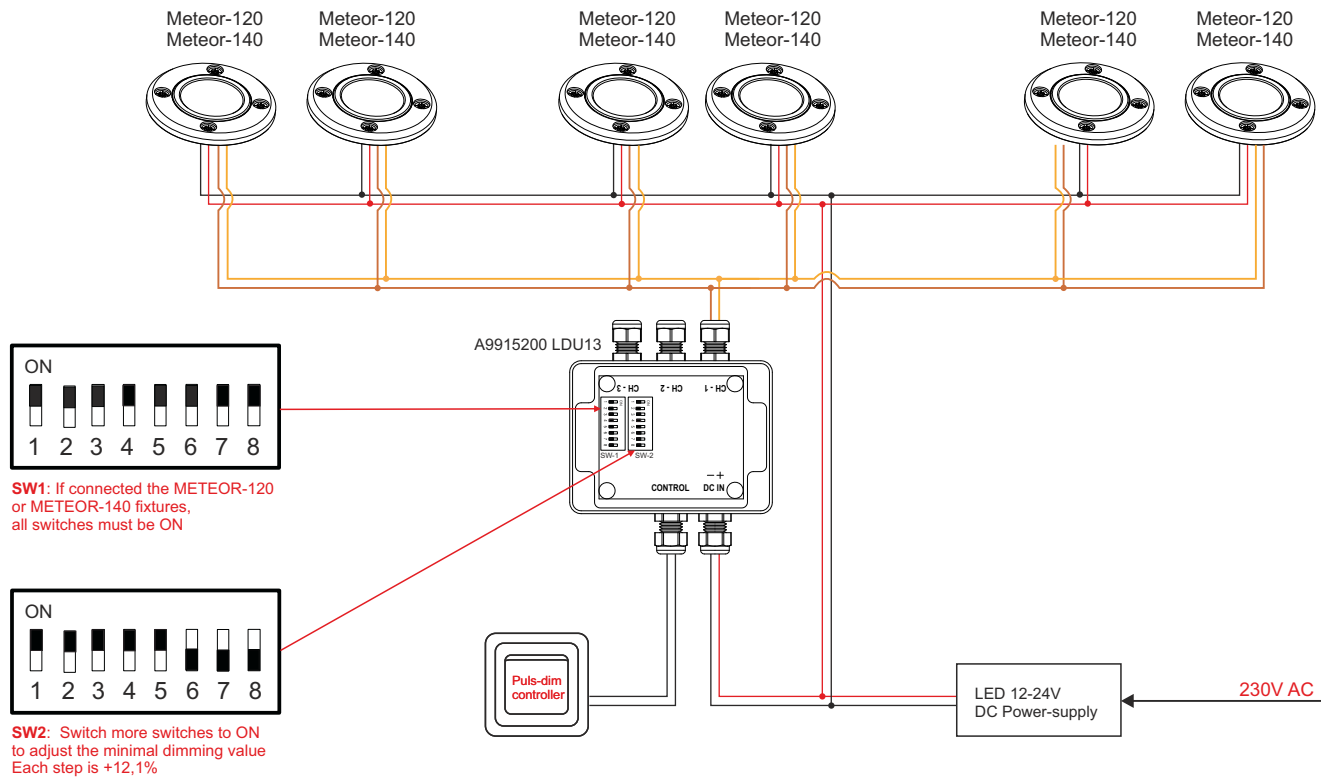
# One color lights

1



**Note:** If the remote control is not used for dimming operation the both CONTROL wires have to be bridged and insulated or connected to the GND.

2



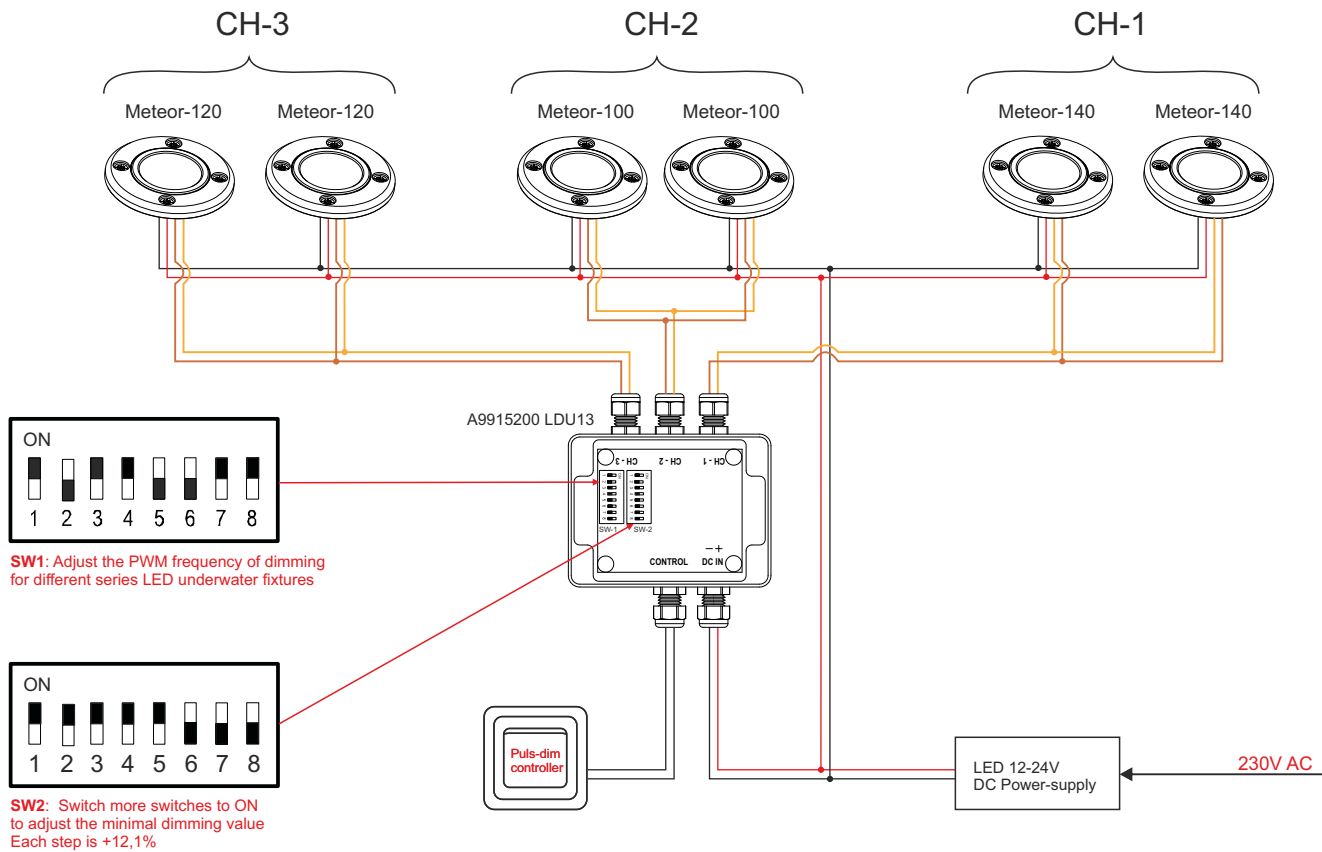
For dimming Meteor series of underwater LED lights, use the LDU PWM Dimmer. The 3 control outputs enable the dimming of 3 groups of underwater LED lights by using of one push-button switch.

## Turning ON /OFF:

Press the key-switch momentary.

## Dimming:

When the light is turned-on, press the key-switch until the desired illumination is achieved. By another pressing of the key-switch the luminosity will increase to the maximum illumination.



For dimming Meteor series of underwater LED lights, use the LDU PWM Dimmer. The 3 control outputs enable the dimming of 3 groups of underwater LED lights by using of one push-button switch. It is possible to control 3 different groups of underwater lights (for example: Meteor-100 & Meteor-120 & Meteor-140)

**Turning ON /OFF:**  
Press the key-switch momentary.

**Dimming:**  
When the light is turned-on, press the key-switch until the desired illumination is achieved. By another pressing of the key-switch the luminosity will increase to the maximum illumination.





# DECLARATION OF CONFORMATY

## Supplier Details

### Name

Highlite International BV

### Address

Vestastraat 2  
6468EX Kerkrade  
The Netherlands

## Product Details

### Product Name

Meteor-140 W

### Ordercode

A0620140

### Trade Name

Artecta

## Applicable Standards Details

### 1. EMC Directives : 2004/108/EC

EN 55015: 2006+A1: 2007  
EN 61547: 1995+A1: 2000+A2: 2009  
EN 61547: 2009

### 2. Low Voltage Directives : 2006/95/EC

EN 60598-1: 2004+A1: 2006

## Supplementary information

The conformity to above standards is verified by Astel d.o.o..

## Declaration

I hereby declare under our sole responsibility  
that the product mentioned above to which this  
declaration relates complies with the above mentioned  
standards and Directives

Name

S. ildiz

Issued Date

Nov 29, 2011

Highlite International BV.  
Vestastraat 2, 6468 EX Kerkrade,  
The Netherlands

Signature of representative