

A0620176 Meteor-175RGB

Underwater Pool Light

Operating Instructions



CONTENTS

Preface.....	3
Features	3
Precautions	3
Components and Connectors	4
Installation	5
Controls.....	7
Appearance.....	8
Technical Specifications.....	8

PREFACE

The METEOR 175-RGB 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 175RGB with 316T stainless steel casings is available with RGB colors with 36 highpower LEDs. The multi-color RGB version allows changing of the color of lighting manually or automatically through the complete rainbow spectrum.

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

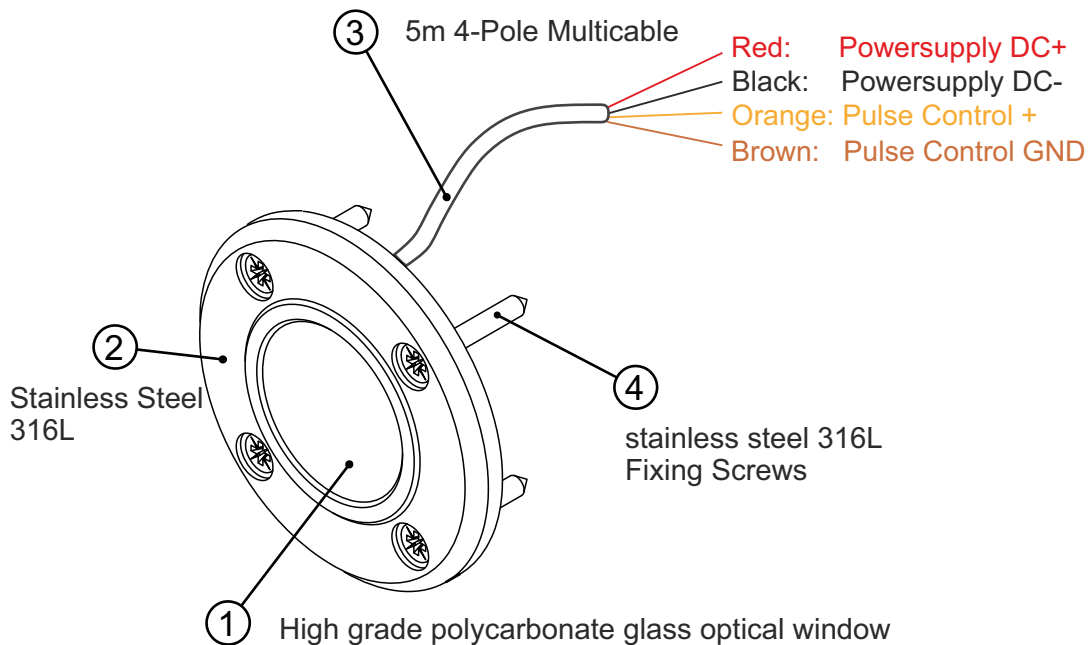
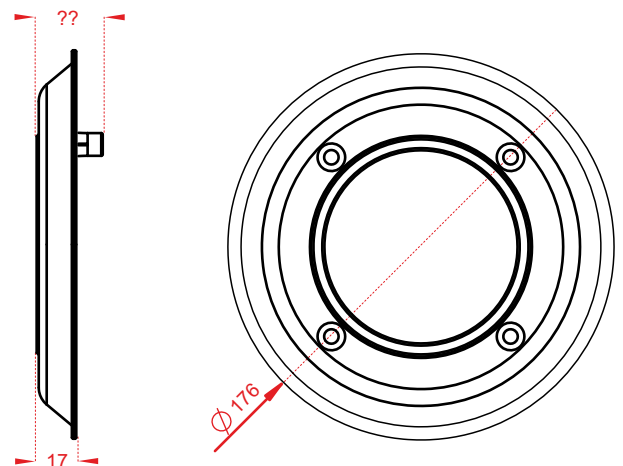
PRECAUTIONS

- 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 recommended 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
- Stainless 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

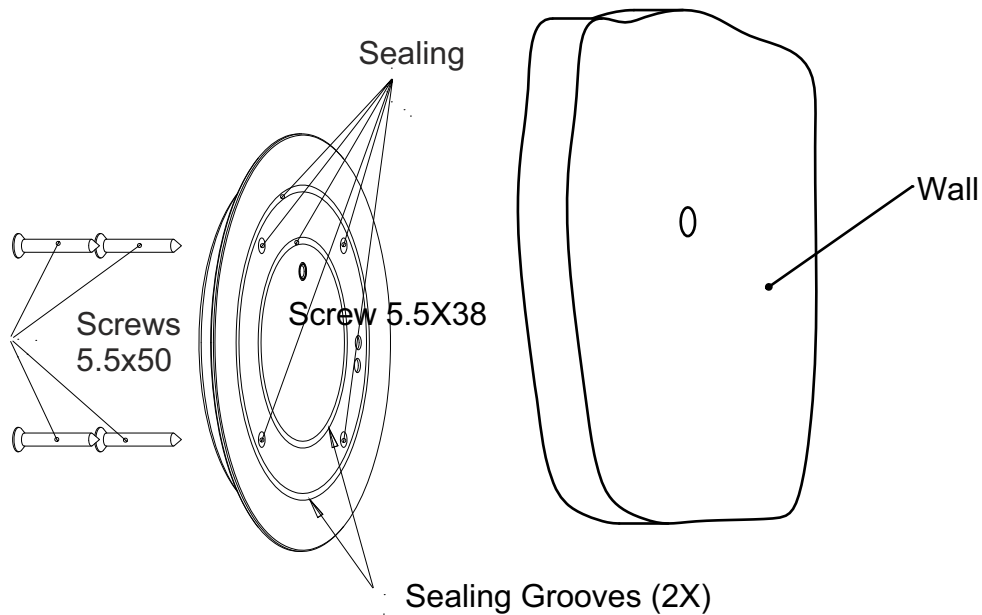
The underwater light kit consists of the following components:

- Underwater Light METEOR 175-RGB
- 4 x fixing screw 5.5x38 with wallplugs
- Operating Instructions

The METEOR 175-RGB 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 mm2). 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 175-RGB wire color	FUNCTION
Red	+ DC Power Supply
Black	GND Power Supply
Orange	+ Control
Brown	GND Control

Remote control connection

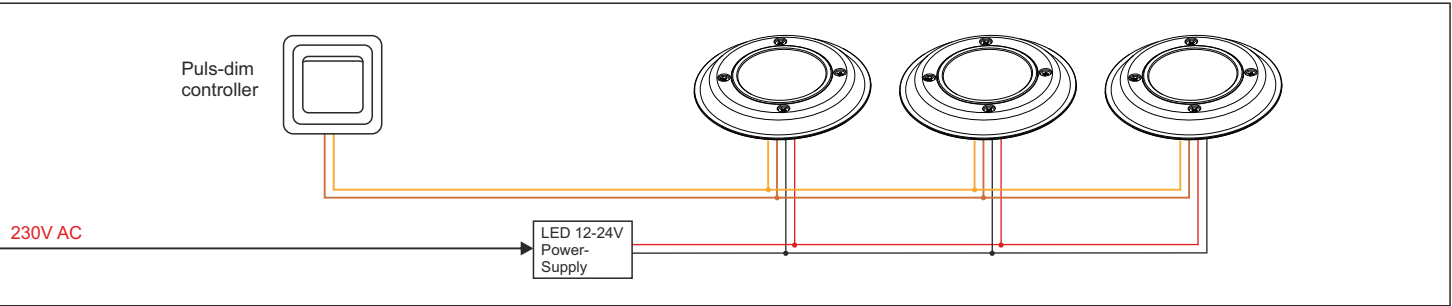
To control the mode of lighting the simple key-switch (not included) has to be used and connected to the CONTROL wires by the 2-pole signal cable (not included).

METEOR 175-RGB Sequence of lighting
Custom Color
Full RGB
Cool White
Bluish White
Red
Green
Blue
Rainbow Color Spectrum

CONTROLS

Remote control has to be used to turn-on and turn-off the underwater pool light and to control the mode of lighting and luminosity. The multi-color underwater pool light can be controlled by using the key-switch.

When the light is turned-off the color or mode of lighting can be changed sequentially by pressing the momentary switch for 2 seconds:



Turning on /off

Press the key-switch momentary.

Changing the color or mode of lighting

When the light is turned-off press the key-switch for 2 seconds.

Setting the Custom Color

At the selected Rainbow Color Spectrum mode press the key-switch momentary to turn the light off.

After that press the key-switch for 5 seconds or until the light is switched to the selected color and then the Custom Color is set and selected.

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.

Synchronization

When more than one multi-color underwater pool light is connected to the system the optional Synchronization Unit LSU08 is recommended to synchronize the colors of lighting at the Rainbow Color Spectrum mode of lighting. On the other case the colors of all installed lights would not be the same after few minutes or hours of operation in the Rainbow Color Spectrum mode.

If the multi-color light is used only with one of the fixed color of lighting the synchronization is not necessary.

TECHNICAL SPECIFICATIONS

Power supply:	24 Vdc, max. 3.4A@24 Vdc
Lens angle:	60°
Optical window:	High-grade polycarbonate glass
Luminous flux:	max. 7000 Lm
Operating temperature:	-10°C - +40°C
Casing:	Stainless steel (316L)
Protection:	IP68
Dimensions:	Ø176 x 17 mm
Weight:	2.3 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

Design and specifications subject to change without notice.