



ORCA COLOR

Overview

As part of the MARINE SERIES product line the ORCA COLOR is a versatile underwater LED light designed for professional film or production photography, combining a tunable Bi-Color engine with an integrated RGB accent channel. Its rugged housing is rated for depths of up to 10 meters.

The standard 30° optics guarantee impressive brightness levels both above and below the water. The clear front lens is integrated, but can be changed to a frosted glass.

The device is connected to an external power supply and a controller which can handle up to 4 units. The controller is installed outside of the water. The LED controller supports DMX/RDM and ensures with up to 30kHz PWM a completely flicker-free lighting. In addition, the 16-bit dimming resolution enables smooth dimming.

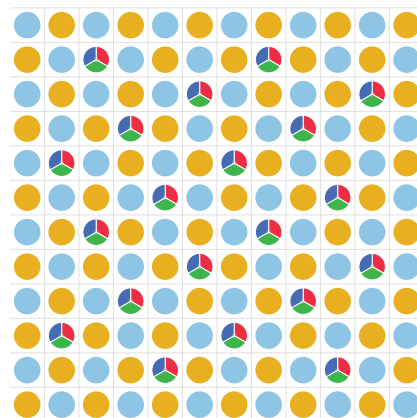
The ORCA COLOR is powered below 30 VDC, which is considered a safe low voltage for underwater applications, making it safe to use.

The ORCA COLOR features flexible mounting options. With the ORCA Bracket you are able to fix and mount freely.

Features

- CCT RGB light (2700K, 6500K, Red, Green, Blue)
- 144 high-performance LEDs
- Color corrected CCT CRI 96 / TLCI 98
- Full Power 2700K/6500K 124W , RGB 60W in total
- Integrated 30° optics (15° or 60° optional as BTO)
- flicker-free built-in controller
- Human safe voltage level
- Secure connections according to IP68, IP69K
- Interchangeable front lens
- External power supply and controller for up to 4 units
- Housing machined from corrosion-resistant Aluminium

LED ARRAY



General technical data

- | | |
|--------------------------|---|
| ▪ Voltage & Power | 28.8VDC, 184W in total LED power |
| ▪ Safe Temperature Range | -10°C to +40°C (underwater) / -10°C to +30°C (above water) |
| ▪ PWM Frequency | up to 30kHz flicker-free PWM |
| ▪ Dimming Resolution | up to 16Bit |
| ▪ Protocol Support | DMX / RDM |
| ▪ Cable Length | 20m, max |
| ▪ Water Depth | 10m, max |
| ▪ Water Types | Submersible in seawater, chlorinated water and freshwater |
| ▪ Size & Weight | 23cm x 23cm x 4.3cm 4,0kg |
| ▪ Buoyancy | negative |
| ▪ Mounting | M10 threads, 2x Omega Bracket (5 positions to mount an Omega Bracket) |

Safety instructions and precautions

The ORCA Color is a light designed for continuous underwater use, as well as for controlled, partially continuous use out of water. Adherence to the following instructions is mandatory for operator safety, proper functioning, and maintaining the manufacturer's warranty.

Operation and performance

- 1) **Maximum operation outside of water:** Continuous operation outside of water is limited to a maximum of two-thirds (2/3) of the total power (max. 184W) to prevent overheating. Never operate the device at full power on land. The light can be operated at full power underwater.
- 2) **Water depth:** The maximum safe operating depth is 10 meters (10m). Exceeding this limit can lead to irreversible damage to the housing and failure of the seals of front lens.
- 3) **Water Types:** The light is suitable for use in fresh water, chlorinated water and salt water
- 4) **Isolation transformers** are strongly recommended for the external control and power supply box

Waterproofing and seals

- 1) **Connections:** Never disconnect or connect cables underwater. Ensure all connections are dry and secure before placing the device in water.
- 2) **Replacing the front lens:** When replacing the front lens, it is essential to ensure that all screws are securely and evenly tightened according to the instructions in order to guarantee water resistance (IP68). The max. torque is 0.5-1.0Nm
- 3) **Maintenance of the seals (O-rings):** The seals (O-rings) are crucial for watertightness. Especially after replacing the front lens, ensure that they are always free of dirt, grease, and oil and correctly seated in their grooves.

Care and storage

- 1) **Cleaning after use:** The light fixture must be cleaned immediately with clean fresh water after each use, especially in chlorinated or salt water, to prevent corrosion and deposits.
- 2) **Storage:** Only pack the light fixture once it is completely dry and store it in the designated case.

Certifications and regulation

This light fixture complies with and is subject to the following regulations and standards..

- 1) 2014/30/EU, 2011/65/EU
- 2) EN 55015, EN 61000-3-2, EN 60598-1

Manufacturer and Contact

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