

Keloray



User Manual

Qube 50

Qube 50 For Plant

www.kelolight.com

Get Started

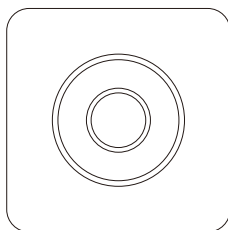
Thank you for choosing Keloray Qube 50 as your LED lighting system.

SAFETY INSTRUCTIONS

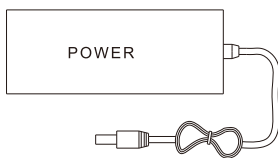
- Never look directly at the LEDs. UV emits from this product can cause permanent damage to eyes or skin. Please minimize exposure of your eyes and skin directly to the LEDs.
- A drip loop must be used with all electrical aquarium devices. A drip loop is self-made by installing part of the power cord looping down below the power socket.
- Keloray is not responsible for problems, your personal safety or equipment damage caused by your mishandling of the product.
- Check the power cord, plug and socket are intact.
- Before installing, please read all state and local laws, make sure you use a compliant power adapter.
- Ask a qualified person for the wiring installation.
- Install the light fixture securely so no risk of contact with water.
- Do not put anything on the product.
- Avoid objects entering the unit. Keep the slot and ventilation openings clean, they should not be blocked or covered.
- Do not allow water to splash, or place unit in the water.
- If the light fixture or power supply becomes damaged, please have it repaired or replaced by the professional person.

INSIDE THE BOX

Check whether the light is damaged immediately after unpacking.
In case of any complaint, please contact the dealer directly.



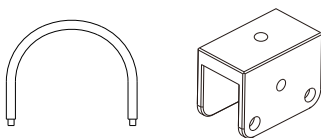
Qube 50



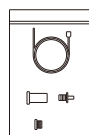
Power Adapter X 1



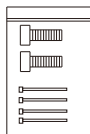
Power Cord X 1



Bracket X 1



Pendant Cord X 1



Accessories Bags X 1



User Manual X 1

1. Features

- LED Cluster chip consisting of 24 individual LED elements with balanced light spectrum.
- High energy density specially designed for strong coral growth (Qube 50) or plant growth (Qube 50 plant).
- Colour and light intensity are adjustable manually via 2 channels.
- Integrated 0 - 10 V connection for using external controllers.
- The compact design allows for an ideal illumination of nano aquaria as well as dark edge areas in larger aquaria.
- Silent-running internal fan for reliable cooling of high-power LED chips.
- A flexible goose neck ensures a firm hold and easy alignment, a wire suspension system for mounting on the ceiling is included.

Qube 50:

LED	cool white	12,000 K	9 pcs
	royal blue	450 – 455 nm	9 pcs
	sky blue	465 - 470 nm	2 pcs
	violet	420 - 430 nm	2 pcs
	UV	400 – 405 nm	2 pcs

Qube 50 plant:

LED	daylight white	8,000 K	10 pcs
	blue	app. 420 nm	1 pcs
	royal blue	app. 450 nm	6 pcs
	green	app. 520 nm	1 pcs
	red	app. 660 nm	2 pcs
	warm white	3,000 K	4 pcs

2. Technical data

Dimensions (housing)	app. 80 x 80 x 65 mm
Weight incl. Holder	app. 725 g
Number of light channels	2
Number of light colours	5 (Qube 50) / 6 (Qube 50 plant)
Illuminated area max.	app. 50 x 50 cm
PAR value	app. 1,250 $\mu\text{mol m}^{-2}\text{s}^{-1}$ (Qube 50) app. 1,410 $\mu\text{mol m}^{-2}\text{s}^{-1}$ (Qube 50 plant)
Total lumen	app. 834 lm (Qube 50) / app. 1,364 (Qube 50 plant)
Total consumption	50 watts max.
Power supply transformer	100 - 240 V / 50 - 60 Hz
Power supply light	24V

3. Installation

The light is either mounted to a vertical glass pane with the included goose neck or on the ceiling with the steel wire suspension.

3.1 Mounting the ceiling suspension

The wire suspension system Qube fit provides a neat and simple method of ceiling mounting of the Qube. The suspension system consists of the following (1 pc. each):

- Ceiling suspension incl. screws and plugs, app. 115 cm of stainless steel incl. stopper
- Lamp fixing

First of all, the ceiling suspension (Fig. 2, No. 2) has to be mounted to the ceiling securely by using screws and plugs.

Note: Please use our screws to install our light. We are not responsible for the damage caused by using other screws.



Fig. 1: Qube 50 incl. connections and controllers

1. Controller for channel B
2. Controller for channel W
3. 0 - 10 V connection of control cable (inlet)
4. 0 - 10 V connection of control cable (outlet)
5. 24 V connection for transformer
6. Thread for the holder
7. Fan's grid



Fig. 2: Steel wire suspension

- | | |
|-----------------------|-------------------------------|
| 1. Plug | 4. Nut for ceiling suspension |
| 2. Ceiling suspension | 5. Steel wire |
| 3. Screw | 6. Nut for Qube fixing |

Now, the stainless steel wire is fed through the nut of the ceiling suspension by pressing the stopper down with a fingernail. The nut is screwed into the ceiling suspension and the wire comes out of the lateral opening. When the wire has the requested length, any surplus wire may be cut off with pliers. The black nut has to be screwed into the thread of the Qube (Fig. 1, No. 6) for

fixing the light. The steel wire can only be adjusted in length at the ceiling suspension.

Note: If the stopper is pressed, the wire may slip out and the Qube falls into the aquarium. Therefore, hold the light tight.

Pay attention to a sufficient distance to the water surface so no water or salt enters the light.

3.2 Mounting the aquarium fixing



Fig. 3: Holder incl. goose neck

The bracket is pushed onto a vertical aquarium pane and fixed with the two locking screws. The goose neck is screwed into the thread of the bracket, the Qube is fixed at the other end. The cable of the power supply can be fixed with cable ties on the goose neck.

3.3 Assembling/changing the lamp

Broken LEDs can be exchanged only by the manufacturer.

Electric connection:

The Qube 50 can be connected to any safety socket or a timer, if automatic operation is required. In case of using a timer, both

channels will be switched on and off at the same time. A separate control of the white and blue channel is possible by using the controllers (Fig. 1, No. 1 + 2).

Due to the 0 - 10 V connection it is possible to control the Qube externally by suitable units regarding the light colour and brightness (Fig. 1, No. 3). More Qubes can be controlled by the 0 - 10 V outlet (Fig. 1, No. 4).

If the lights are connected in series, the first Qube is "Master", all subsequent work as "slaves".

Note: When working on the light, always pull all power plugs.

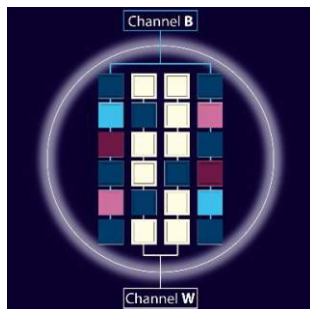


Fig. 4: Light colours and channels (Qube 50)

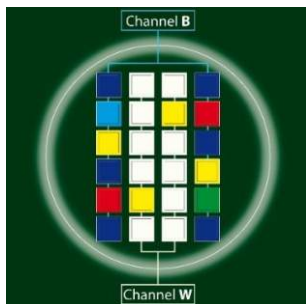


Fig. 5: Light colours and channels (Qube 50 plant)

4. Maintenance and Care

Clean the glass regularly (caution: let it cool down) from residues of water splashes and evaporation with a moistened cloth. Never use any additional cleaning agents.

We recommend to clean the built-in fan regularly from dust deposits by blowing. If the cooling power is too low, the overheating protection temporarily shuts off the Qube.

5. Warranty conditions

Keloray grants the first-time user a 12-month guarantee from the date of purchase on all material and manufacturing defects of the device. Incidentally, the consumer has legal rights; these are not limited by this warranty. This warranty does not cover user serviceable parts, due to normal wear & tear ie: impellers or drive wheels etc. The original invoice or receipt is required as proof of purchase. During the warranty period, we will repair the product for free by installing new or renewed parts. This warranty only covers material and processing faults that occur when used as intended. It does not apply to damage caused by transport, improper handling, incorrect installation, negligence, interference or repairs made by unauthorized persons.

In case of a fault with the unit during or after the warranty period, please contact your dealer. All further steps are clarified between the dealer and Keloray. All complaints and returns that are not sent to us via specialist dealers cannot be processed. Keloray is not liable for consequential damages resulting from the use of any of our products.

