

## OPERATING MANUAL

for the product lines

eco

cluster

cluster control

Dear Customer,

Thank you for choosing a WALTRON daytime® LED light.

Your daytime® LED light is a high-quality product that was specially designed for aquatic and terrarium applications. It satisfies the most demanding safety requirements.

The selection and design of the light's materials enables it to illuminate in the most adverse conditions, even in saltwater aquariums.

The use of modern, high-quality LEDs from a reputable supplier is a guarantee that the light source will have a virtually unlimited service life. They also ensure that the lighting will maintain the required energy efficiency for years to come.

The modular design of the daytime® cluster/cluster-control lighting series allows you to configure them at an authorized dealer or at Waltron. Thus, you can add new colours or the latest generation of modules to your configuration.

The features of this daytime® product are described in detail in the following chapters. Please read the operating manual carefully and completely. We would be happy to answer any questions that you may have.

The entire team at WALTRON wishes you a "bright" future with our daytime® lighting!

### Notice, warning and safety symbols

The European Standard prescribes the use of the following symbols for specific situations; they are not intended to unsettle the user. They are a part of modern operating manuals for any electrically operated appliance.

General description:



**Warning!** Serious injuries can result from an electric shock if you do not follow the information marked by this symbol.



**NOTICE!** The daytime® products may malfunction or be damaged if the information marked by this symbol is not observed.



**Info** Sections marked by this symbol contain helpful recommendations and tips for using the daytime® products.



Information for disposing of the product in an environmentally responsible manner



In compliance with the EC directives

### Proper and intended usage

These products are designed and intended for private household usage. They are only intended as aquarium lighting and are not to be used for general lighting purposes. Thus, they are not subject to the labelling requirements related to energy-efficiency classifications (as described in Directives 874/2012 + 1194/2012).

Read and observe the entire operating manual before using the lighting for the first time. The warranty does not cover damage or defects which have resulted from not observing the information in the operating manual. Keep this operating manual accessible near the device. Make sure that it is given to any subsequent users. WALTRON assumes no liability for the consequences of improper usage.

### For your safety



**Warning!** Carefully read and observe the following important safety information. In order to avoid an electric shock:

Position the operating device in a suitable place to ensure that it is not exposed to water (from condensation or falling into water).



**Info** WALTRON recommends making "drip loops" in the converter cables to prevent water (condensation) from running along the cable to the converter or outlet.



**NOTICE!** Make sure that all cables:

- have no kinks in them,
- are not routed over sharp edges,
- cannot be jammed or snagged, and
- cannot come into contact with hot surfaces (> 60 °C).



**Warning!** If you notice that the power cable is damaged, disconnect the device from mains power supply immediately. Contact an authorized daytime® service partner or the manufacturer (WALTRON GmbH) directly.



**Warning!** If the operating device's power cable or secondary cable(s) are damaged, they must be repaired, either by an authorized daytime® service partner or directly by the manufacturer.

Never use a device which has a damaged or defective power cable (operating device).



**Warning!** Never open or repair the operating devices and lights by yourself. Do not make any changes which are not described in these operating instructions. The operating device contains live (current-carrying) parts (with 230 V AC). A fatal injury can result from an opened device. Repairs may only be made by authorized daytime® service partners or by Waltron, using only original spare parts and accessories.

### Standard scope of delivery and accessories

The standard delivery of the daytime® lighting includes:

- 1 light
- 1 operating manual

The following accessories are available for setting up and operating the light:

#### eco:

- T5 adapter set
- T8 adapter set
- Universal adapter set
- Mount adapter set
- Swing adapter set
- Insertion/screw-on adapter set
- Magnet holder set
- LED converter 12W, incl. plug-in system
- LED converter 36W, incl. plug-in system
- LED converter 60W, incl. plug-in system
- LED converter 80W, incl. plug-in system
- LED converter 100W, incl. plug-in system
- Three-way distributor (two-pole)
- Single-channel dimming module (daytime eco + daytime cluster)

#### cluster / cluster-control:

- Wire suspension including lighting adapter
- T5 adapter Set
- T8 adapter Set
- Universal adapter set
- Mount adapter set
- Swing adapter set
- Insertion/screw-on adapter set
- Magnet holder set
- LED converter 12W, incl. plug-in system
- LED converter 36W, incl. plug-in system
- LED converter 60W, incl. plug-in system
- LED converter 80W, incl. plug-in system
- LED converter 100W, incl. plug-in system
- Three-way distributor (two-pole) – not for cluster control
- Single-channel dimming module (daytime eco + daytime cluster)
- Three-channel dimming module (only for daytime cluster control) – mandatory for operating the cluster control

#### Other accessories:

- Adapter profile for JEWEL aquariums
- Adapter profile for EHEIM aquariums

Special accessories on request.

### Manufacturer's Declaration of Conformity



We hereby confirm that the design and construction of the daytime® lighting series

eco, cluster, cluster control

complies with all relevant regulations, directives and safety requirements, as listed below:

Low Voltage Directive 2006/95/EC

Waste Electrical Equipment Directive (WEEE) 2002/96/EC

EMC Directive 2004/108/EC

Product Safety Directive 2001/95/EG

ErP Directive (energy related design) 2009/125/EG

and the applicable standards

DIN EN 60598-1 Lighting – general requirements and tests

DIN EN 60598-2-11 Special requirements – aquarium lighting

DIN EN 62471 Photo-biological safety of LEDs

Any changes in the lighting that are made without the approval of Waltron GmbH will invalidate this declaration.

WALTRON GmbH  
Sapelloh 51  
31606 Warmsen, Germany

Tel.: +49 (0) 57 67 / 94 14 39-0  
Fax: +49 (0) 57 67 / 94 14 39-15

[www.waltron-gmbh.com](http://www.waltron-gmbh.com)  
[www.day-time.de](http://www.day-time.de)

## General technical specifications

### Switch-mode power supply / converter

Primary (mains voltage): 230V / 50 ... 60Hz  
Secondary: 12 V DC (constant voltage)

Power consumption: 12 – 100 watts  
(depending on the model)

### daytime® lighting

Operating voltage: 12 V DC  
Can be dimmed using the daytime® dimming module  
Dust resistant and waterproof: IP67  
Power consumption: 1.5 – 100 watts  
(depending on the model)  
Light colour: neutral white (NW), ultra white (UW), neutral white (NW), ultra blue white (UBW), ultra blue red white (UBRW), nautic blue (NB), nautic blue red (NBR)

## Disposal



Follow the applicable environmental regulations when disposing of old electrical devices.

Used devices and equipment contain valuable recyclable materials that should be sent in for recycling. Therefore, dispose of used devices at the recycling collection points that have been designated for your region.

## Cleaning and care



Info

Disconnect the operating device's power cable to switch off the light.

Remove the light. Do not clean the light while it is installed in the device.

Do not use harsh or abrasive cleaners. They can damage the surfaces (especially the transparent cover).

Do not clean the lighting or the accessories in a dishwasher.

Follow the information in the overleaf chapter "For your safety"

## Installing the accessories; inserting / mounting / hanging the light



Notice!

During the setup and initial usage, make sure that there is at least a 15-mm gap between the bottom of the light and the water surface.

### eco:



T5 + T8 adapter set



Universal + mount adapter set



Swing adapter set



Insertion/screw-on adapter set



Magnet holder set

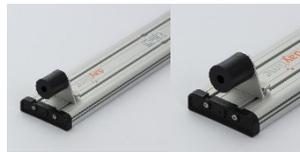
## Installing the accessories; inserting / mounting / hanging the light



Notice!

During the setup and initial usage, make sure that there is at least a 15-mm gap between the bottom of the light and the water surface.

### cluster / cluster-control:



T5 + T8 adapter



Universal + mount adapter set



Swing adapter set



Insertion/screw-on adapter set



Magnet holder set



Wire suspension

## Installing the accessories; inserting / mounting / hanging the light



Notice!

During the setup and initial usage, make sure that there is at least a 15-mm gap between the bottom of the light and the water surface.



## Setup and initial usage of the light



NOTICE!

Never connect or disconnect the secondary cables while voltage is applied (while the power cable is plugged in).



Info

To switch on or off, we recommend using a timed switch, a switched outlet or a power strip with an integrated fuse.

### eco und cluster:

After you have inserted/mounted/hung the light, connect the light's cable with the secondary cable on the operating device or the distributor. Plug in the connectors so that there is an audible click as they are inserted.



NOTICE!

The connectors must be positioned straight and with no mechanical stress; this will ensure that the connection contact is safe and reliable.



Correct!



False: not permitted!

Finally, insert the power plug of the operating device (the converter).

### cluster control:

After inserting/mounting/hanging the light, connect the light's cable to the dimming module (the round connectors). Then tighten the union nut.



Then plug the operating device's secondary cable into the three-channel dimming module. (You should hear a click as it plugs all the way in.)



Finally, insert the power plug of the operating device (the converter).

## Warranty notice

We have a 24 month warranty for daytime® products that we deliver within the EU. Exceptions are damages due to non-compliance with the operating manual or other improper handling.

If, contrary to expectations, you have grounds for a complaint within this warranty period, please fill out and submit the following warranty card to your nearest daytime® dealer.

## Warranty form

See separate warranty card