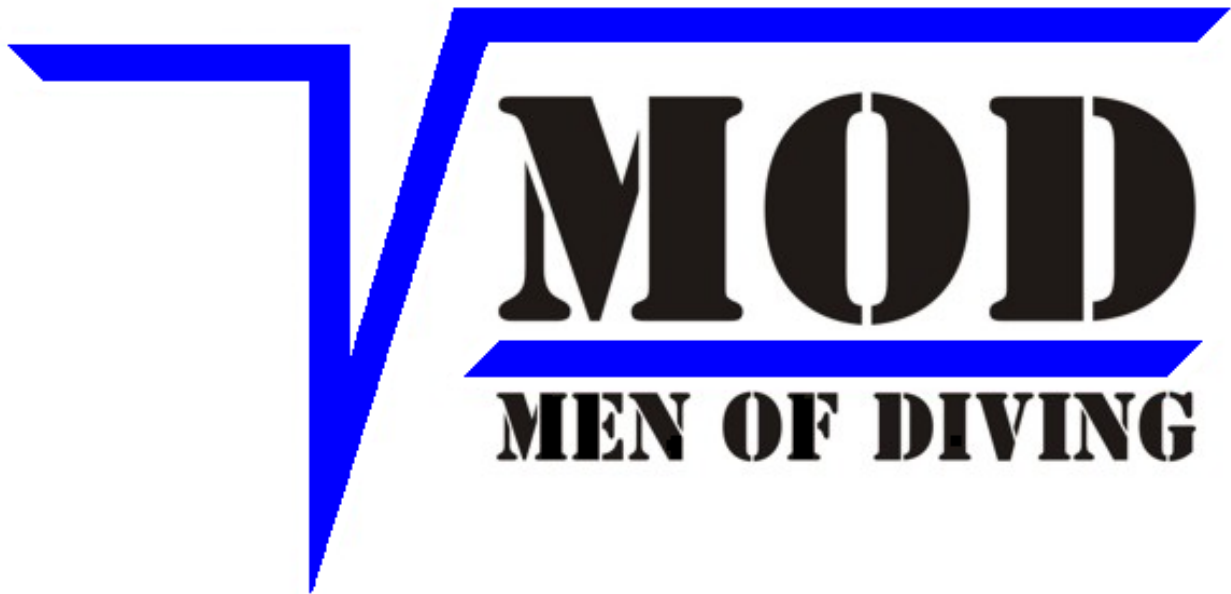


Manual

WARP 30-S2 / WARP 45

Non Focusable / Focusable
LiFe



Introduction

Congratulations on your dive light from our WARP Series. This manual shows you how to operate and maintain your dive light. The dive lights of the series Warp are very powerful dive lights, made for professional and personal use under water and developed in high quality and best workmanship. The operation of the WARP 30-S2 / 45 is kept as easy as possible and the used LED technology provides one of the best shining results under water.

Delivery

In principle the WARP 30-S2/45 will be delivered as follows:

Battery Canister, Light Head with Standard Umbilical, Handle, Charger, Manual and Rubber Band, as well as one original CE certificate.



If it should come to complaints, then please do not hesitate and consult one of our dealers or distribution partners.

Operation

Charging the Light

Use only the enclosed battery charger!

It can come to degassing of the cells during charging of high performance battery packs.

LiFe (Lithium/Ferro) battery pack doesn't get warm much during charging. Nevertheless, to avoid that an excess pressure arises during charging or possible degassing cannot escape from the canister, we recommend charging only with an open lid.

The light system must be charged completely before the first operation and before every dive session.

Opening the Canister

The seal face and O-rings should be rubbed with a little silicone grease at every 20th dive session, through this opening the lid of the battery canister gets very relieved and simply and can be carried out by hand.



Nevertheless, if it should happen sometime that the lid can be opened only with difficulty by hand, then proceed as follows:

Picture 1



Picture 2



Picture 3



Picture 4



Picture 5



Picture 6

Picture 1

Shows the closed canister

Picture 2

Unlock the tension locks (Latches) and arrange these as pointed in the picture; the crossing bolts lay thereby on the hook (Striker).

Picture 3

Put your forefinger under the tension locks and move them so far up till the crossing bolts push against the screw heads

Picture 4

Use so much strength now until the lid has some Millimeters raised for itself by the leverage.

Tipp!

If you stick the tank upright between your thighs, you can execute opening the lid ambidextrously. Through this a tilting will be prevented.

Picture 5

After easily raising the lid take the tension locks back again until it is possible to click the crossing bolts under the hooks.

Picture 6

Through repeated raising the lid will move further up. After that it should be possible to remove the lid by hand with a little jiggling.

Notice about the Charger

Plug always the charger first at the battery pack and then the power cable into the power socket! Input voltage of the charger is 100 – 240 Volts (automatically detection of the input voltage). The colored coding of the plugs shows how the charger has to be connected with the battery pack.



The charger has a LED with the following colored marked functions:

Red = Charging

Green = Battery 100 % charged, Charge Retention

After ending of the charging unplug first the charger from the socket and then unplug the battery pack.

The battery pack can be charged any time. There is no need to empty the batteries.

IMPORTANT: all chargers have to be used dry indoors only!

Charging can take several hours until the batteries have reached its full capacity. Charging time is depending of the capacity of the battery pack and how empty they are at the point of charging.

Nevertheless, should you come to the point on which you don't know if the batteries have exceeded the capacity and should be replaced, you are very welcome to send us the battery pack at any time. We will check it for you and let you know the results.

Switching the Light on and off

To turn the light on, just move the switch to the „ ON „ position. The LED illuminant is on 100% power immediately. The light systems of the series WARP can be switched off and on as often you want. WARP systems are not subject to heavier wear like on HID systems.

A longer use of the WARP outside water is not recommended.

Under Water

Handling procedures for the Dive Light

Avoid hard falls and blows of the light system, especially what concerns the light head.

Treat all parts carefully as far as possible. You can profit from the light system greatest possible only in such a way.

Important Tips

The focusable light heads of the WARP series cannot be unscrewed by the rotatable part at the back end (knurling). This has a consequence defect of the electrical connection to the LED the module. The rotation range of the adjusting rings on the WARP 45 head of the small spot (approx. 4°) to the greater one (approx. 10°) is at most 1 rotation.



Make a visual inspection in regular distances of your light system to recognize and exchange or have faulty components exchanged if necessary.

Always take care that the waterproof protecting cap of the flip switch does not show porously or other damages. Depending on diving behaviors you should have the protecting cap changed or let it be changed every 6 to 12 months.



Always take care when changing, that the seal face is absolutely clean between protecting cap and canister.

Safety Information

Due to the simple style the battery pack change can be performed by you. Take always care too, to treat the cable carefully. The cable must be immediately exchanged if it is porous, damaged or shows other disadvantages of a new cable.

In case of longer storage, longer journeys, solar radiation and warmer places, the light systems have to be transported always in the open condition for safety reasons.

Manufacturer's Instructions

CE - Marking

All lights of the WARP series fulfill the requirements of the EC - guidelines 89/336 EEC about the electromagnetic compatibility.

The safety glass plate is checked according to the following guidelines:

DIN ISO 719 / HGB 1, DIN ISO 1776, DIN ISO 695/class A2, dimensional tolerances according to DIN 7080

The lights are in their compliance with regard to also checked for the indicating decreases below zero.

Test duration 12 hours at -20 degrees. The function of the light remained unchanged fully after the test.

The following parts are solvents at the light constantly: Lids, bottom and case of the canister, but not additional components.

Testing liquids: Acetone

Check criterion: Pouring and wiping

Recycling

The components of the WARP series are built from materials which can be supplied with to recycling professionally.

After the use you can return the light to us completely or into single components.

You must pay for the postage only. We then will comply with our duty to take these into pieces submit it to the disposal/reutilization for recycling.

Maintenance - and Cleaning Instructions

- After use, especially in salt water, all parts have to be cleaned under tap water.
- Storing the light for a period of time only in the condition dried, opened and unplugged.
- Avoid a longer direct solar radiation when storing.
- After use always disconnect battery pack from the light head and unplug it from the charger.
- Keep all components away from solvents and possible gasses.
- Pay attention to foreign elements which could affect the function of the light especially the O Ring seals.

Own Notes:

Technical Data	WARP 30-S2 / WARP 45
Power-Efficiency in Ah approx.	C1-3.0Ah / C2-4.5Ah / C3-6.0Ah / C4-9.0Ah
Burning Time in Minutes approx.	C1-192 / C2-270 / C3-484 / C4-540
Charging Time in Minutes approx.	C1-40 / C2-75 / C3-90 / C4-130
Weight complete in Kg	C1-2 / C2-2.2 / C3-2.5 / C4-2.6
Weight U/W complete approx.	700
LED Capacity in Watts approx.	12
Light Flow in Lumen max.	1200 (45), 1500 (30-S2)
Light Temperature in °K	5800
Brightness in Lux approx.	30000 (30-S2), 45000 (45)
Max. Operational Depth Meters / FT	200 / 656
Operation Temperature in °C / °F	-20 - +80 / -4 - +176
Safety Glass in mm	10
Light Head Material	Aluminium
Canister-Diameter in mm	70
Diameter Light Head in mm	62
Length Light Head in mm	80
Length Canister over all in mm	225 / 355
Power Supply in Volts	12.8 / LiFe
Reflector- Radiation Angle in Degree	WARP 30-S2 10° / WARP 45 4° – 10°

Limited Warranty

A general guarantee on these lights of 12 months and a warranty of 24 month is valid at the purchase date.

Any guarantee and warranty is dropped if the product was used improperly or treated badly.

We also do not assume any liability for it through this resulted for damages.

The case of the light head has a 10 years guarantee on material defect.

Wearing parts are excepted from the guarantee.

General Notes

We reserve changes for us which serve the technological progress or the improvement in our products.

Do you still have questions or technical problems despite all information?

Then please contact....

- Your sales outlet
- one of our service partner
- your distributor

Information about our products can be found under www.men-of-diving.com

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Declaration of Conformity Document

For the product described following,

WARP 30-S2/45 Series

is hereby confirmed that it meets the essential protection requirements of the Council Directive to the adjustment of the legal provisions of the member states about the electromagnetic compatibility (89/336/EEC.)

This explanation applies to all copies which are produced after the appending production drawings, which are the components of this explanation is.

To the assessment of the product with regard to an electromagnetic compatibility the following norms were consulted:

EN55025, EN55022

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