

VESPER - VISOR LIGHT  
OWNER'S MANUAL

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OCEANREEF  
underwater, naturally.

# VESPER VISOR LIGHT - OWNER'S MANUAL

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# 1 - INTRODUCTION

For more than 70 years, OCEAN REEF has been involved in the underwater diving industry. We have contributed much to this industry, from fins and snorkels to the most modern systems of underwater communication. Through the spirit of intrepid pioneers, brilliant inventors, passionate divers, and dynamic entrepreneurs, OCEAN REEF has been able to turn dreams into reality in the underwater world.



If you lose this manual or if you should require more copies, you can download it at [diving.oceanreefgroup.com/support/](https://diving.oceanreefgroup.com/support/) or contact the Manufacturer: Mestel Safety SRL, Via Arvigo 2, 16010 Sant'Olcese (GE), IT. Phone: +39 0107082011. E-mail: [infoitaly@oceanreefgroup.com](mailto:infoitaly@oceanreefgroup.com). Website: [diving.oceanreefgroup.com](https://diving.oceanreefgroup.com)

The Manufacturer has carefully worded and edited this owner's manual. However, in no event the Manufacturer will be responsible for any damage caused by the incorrect interpretation of its content, nor due to any misprints and/or incompleteness in the text.

The Manufacturer will not accept liabilities for any damage caused by:

- Insufficient, incorrect and improper maintenance, failing to comply with the manual's recommendations
- Absence of periodic tests and checks
- Incorrect and improper use
- Failing to comply with guidelines included in the owner's manual
- Alterations and/or modifications of the Vesper

If any of the above were to occur, considering these actions are potentially dangerous to the health and life of the users, the manufacturer is released of any responsibility and the warranty is void.

The Manufacturer is an ISO 9001:2015 certified company ([https://diving.oceanreefgroup.com/support/#ISO\\_CC](https://diving.oceanreefgroup.com/support/#ISO_CC)).

## 2 - GENERAL WARNINGS / OWNER'S RESPONSIBILITIES

### WARNINGS, CAUTIONS AND NOTES

Pay special attention to information provided in warnings, cautions, and notes that is accompanied by these symbols:



A **WARNING** indicates a procedure or situation that, if not avoided, could result in serious injury or death to the user.



A **CAUTION** indicates any situation or technique that could cause damage to the product, and could subsequently result in injury to the user.



A **NOTE** is used to emphasize important points, tips, and reminders.

### IMPORTANT

The content of this manual is based upon the latest information available at the time of print. OCEAN REEF reserves the right to modify any products, processes and manufacturing techniques at any time. It is the technicians' responsibility to acquire the latest information and parts from OCEAN REEF for service and repairs to be performed.

If the instructions provided in the manual are unclear or difficult to understand, please contact OCEAN REEF at [infoitaly@oceanreefgroup.com](mailto:infoitaly@oceanreefgroup.com) before using the equipment or attempting any repairs.



Carefully read this instruction manual before use, and keep it for future reference.



While this is a product of high quality, the user is not exempt from problems connected with the incorrect use of the product or failure to follow the rules of safe diving.



Do not modify or alter in any way the Vesper.



DO NOT USE the unit if it is overheating, if it is leaking battery fluid, if water has leaked the unit, if there is smoke coming from the unit or if any part is broken.



Before using the Vesper the user must ensure that the product has been properly inspected and maintained. (see Chapter 8 Maintenance, Cleaning and Storage).



OCEAN REEF refuses all responsibility for damages caused by non-compliance with the instructions contained in this manual. These instructions do not extend the warranty or the responsibilities stated by OCEAN REEF terms of sales and delivery.



In order to maintain the warranty, service and routine maintenance of the products must be performed by the end user as indicated by OCEAN REEF and described in chapter 8 MAINTENANCE, CLEANING AND STORAGE.

For details, contact an authorized OCEAN REEF dealer at: <https://diving.oceanreefgroup.com/shop-dealers/>



### 3 - PACKAGE CONTENTS



**Vesper unit**



**Round Magnetic  
USB Charging cable**



**Activation Strap**



**Multifunctional protective case  
(With additional elastic strap)**

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## 4 - FEATURES

# VESPER

OR024800



Vesper is a lightweight, powerful, easy-to-use, fully integrated secondary diving light.

This light is **SHOULD NOT BE USED AS A PRIMARY LIGHT**.

Its reduced size and patent pending placing inside the mask results in a unit that increases the negative buoyancy of the system while being incredibly comfortable.

*\*This product is compatible with all OCEAN REEF IDMs from the SPACE and Neptune lines.*

- Includes battery pack
- Rechargeable with magnetic cable
- Easy to install and remove by the end user
- Ultra light and ultra compact
- Activation with sensor
- SOS mode
- Extra brightness
- Illuminates the face of the user to allow being identified (while not blinding the diver).



Scan the QR code and  
watch the video tutorial

LED Power	30 lumen/led
LED Life	> 100,000 hours
Light Color	5000K
Beam Angle	15°
Battery	Lithium polymer 3.7v 500mAh
Burn Time	2h45min
Charging Time	3/4h
Battery Cycles	>600cycles (80%)
Battery Shelf Life	2 years
Use Temperature max/min	0°C / +40°C (+32°F / +104°F)
Depth Rating	60m (180ft)

Table 1: VESPER - Product features

## 5 - REMINDERS AND TIPS FOR USE



Before charging, please make sure the charging port is dry. Charge in a safe, dry place.



Use the original USB charging cable only. It is your responsibility solely to assure the charger works properly.



Product should be stored in shade and cool location. Do not expose to extreme low and high temperatures. Do not leave the product under direct sunlight. Operating temperature: 0°C (32°F) and +40°C (104°F)



Vesper is designed for use **INSIDE** the OCEAN REEF IDMs. Whilst the unit is rated for up to 60m/180ft, the charging port may be damaged by prolonged, direct exposure to salt water. We advise against use outside the mask.



When not in use or at the end of each use, make sure that the unit has been turned off (main UNIT ON / OFF button - see paragraph 6.2)



Never drop the unit. We suggest to store the Vesper in the original rugged case after use, to protect it from damages or accidental drop from height.



Dust and any debris in the area of the optical sensor can cause malfunction in the product or even compromise its correct use. In order to avoid this, before use, make sure that the optical sensor of the Vesper is perfectly clean and the upper visor area of the mask (where the Vesper will be placed) is clean and free of water droplets.



Before diving, check battery.

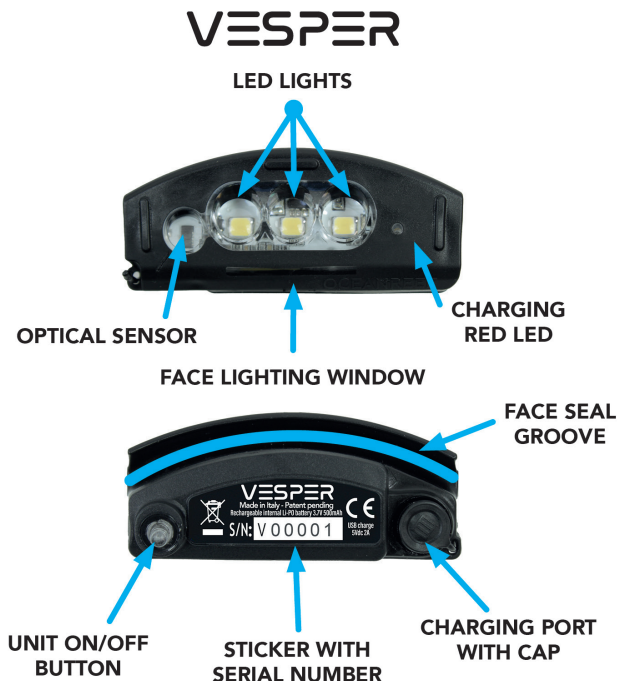


This product should not be exposed to chemical products such as sunscreen or insect repellents as some components may melt or damage plastics.

## 6 - OPERATION

This chapter describes the different configuration options for the correct use and assembly of the product.

### 6.1 - GLOSSARY

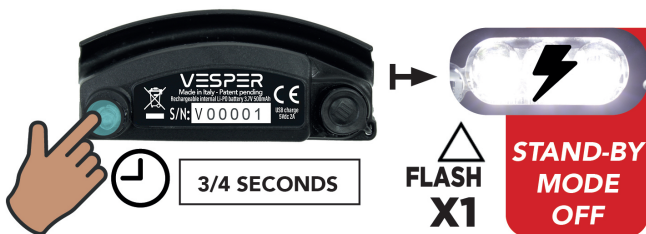


## 6.2 - ACTIVATION/DEACTIVATION

Before diving, push down for a few seconds the clear button located in the back of the unit on the bottom left. The LEDs will flash twice to confirm activation of standby mode (Not the lights yet).



Once diving is done and the LEDs are OFF - push down the same button again for a few seconds to deactivate the Vesper. LEDs will flash 1 time to confirm deactivation. Standby will be OFF.



Only activate and deactivate the unit out of the water and with the product not inserted in the mask.

## 6.3 - ASSEMBLY

Install the Vesper in the mask and test again before diving.  
See the following instructions for proper assembling.

1



To install the product, place the mask on a flat surface in a face down position (we recommend performing the operation while seated with the mask positioned on your legs).



**NOTE!**



NOTE: Remember to activate (standby mode) the Vesper before installing it on the mask. Make sure that the charging cap is tightly closed. Make sure the product works correctly as described in sections 6.3 and 6.4.

2



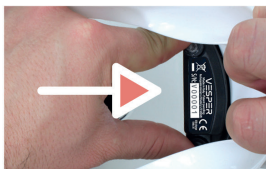
3



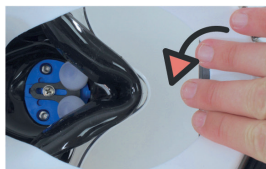
Gently place the VESPER face down on the flat center part of the visor.

Pull the face seal out

4



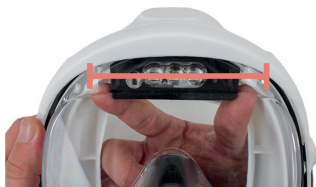
5



Push the Vesper under the face seal by sliding it gently.

Release the face seal making sure to keep the Vesper pressed into the top of the visor while doing this

6



Turn the mask and check that the Vesper is correctly centered on the mask.



NOTE!



Before diving check that on both sides the face seal groove of the Vesper is correctly positioned and inserted inside the seat for the interlocking of the face seal itself. For correct positioning, the Vesper face seal groove must fit inside the crease in the face seal.



The images shown were made for illustrative purposes only, to better understand the positioning of the visor light on the face seal of the mask.

To mount the product, it is not necessary to disassemble any part of the mask nor to use any specific tools.

#UNDERWATERNATURALLY

## 6.4 - OPERATING THE UNIT

The Vesper LEDs are turned ON/OFF by activating a photosensitive sensor (optical sensor, see page 8) located on the front left corner of the unit.

To turn ON/OFF the unit, simply occupy the sensor by placing a finger or an object on the sensor (no need to press or tap).

Product package includes an "Activation Strap", as an alternative to using the hand or finger.



The Optical Sensor might not work in extremely low light conditions or if you are using a dark object/cloth/glove to block the sensor - this is normal. The sensor will always work if it is blocked by a light color object. We recommend using the Activation Strap as the optimal method for turning the LEDs ON or OFF.

**OPERATE WITH:**



HAND/FINGER



ACTIVATION STRAP

## 1 - TURN ON/OFF THE LIGHT

Test the turning ON and OFF of the LEDs lights by moving across a finger (or alternatively the activation strap) in front of the optical sensor.



\*Hand or activation strap



\*Hand or activation strap



## 2 - S.O.S. MODE



Block the sensor for 5> seconds to activate S.O.S. blinking mode. (This mode is activated both when the lights are OFF or ON).



Moving briefly the finger (or strap) in front of the sensor will deactivate this mode.



The operations 1-2 described in this paragraph are intended to be performed underwater or anyway with the product mounted on the mask.

Of course, these operations can also be performed by the user out of the water (to test the unit) with the product not assembled.

## 6.5 - CHARGING THE UNIT

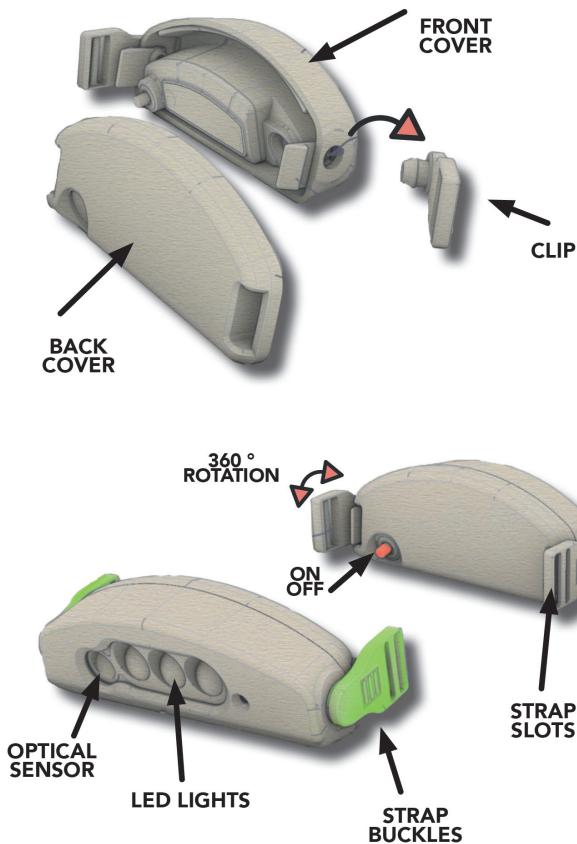
Remove the little round cap on the right back side, connect the USB re-charge cable (magnetic), and connect the USB plug to a 5v power supply. A little red LED light in the front of the unit means it is charging , when it turns off the unit is ready.



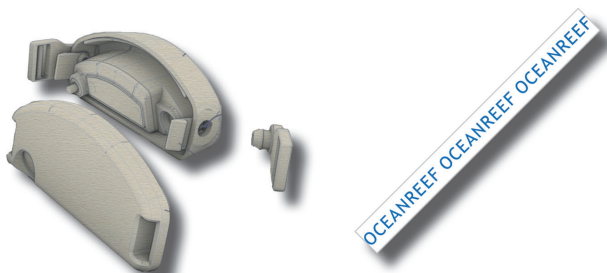
△ Always charge the Vesper before first and each use.

Close the round cap pushing it until it is flush on the housing. While the unit is sealed also with the cap open, prolonged exposure of the metal components to salt water might result in damages.

## 7 - MULTIFUNCTIONAL CASE



With the protective case and dedicated elastic strap, the Vesper can also be used out of the water in different configurations, making it a very versatile produce.



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Simply adjust the length of the strap to turn the Vesper into a comfortable headlight or a wrist/hand flashlight.



**NOTE:** this case has been molded to protect the Vesper unit when storage is needed. The surface configurations with the multifunctional case and strap are not the primary use of this product and have not been designed for durability or user experience, but for versatility. Keep this in mind while using the unit with this purpose.



## 8 - MAINTENANCE, CLEANING AND STORAGE

### 8.1 MAINTENANCE AND CLEANING

The Vesper will work perfectly if the periodic program of maintenance and cleaning collected in Table 2 is applied during its whole life from the first use.

General and visual inspection means checking that all the components and parts are not damaged, and verifying there is not any wear and tear. No damages must be detected on the product. If damages are detected, the product cannot be used until repair.

TYPE OF ACTION	FIRST USE	BEFORE EACH USE	AFTER A DIVE
GENERAL FUNCTION CHECK	X	X	
GENERAL AND VISUAL INSPECTION	X	X	
CLEANING / RINSING			X

Table 2: Periodic maintenance program



**For optimum longevity of the Vesper and the proper functioning of its parts, we recommend rinsing thoroughly with fresh water after every use. DO NOT clean the Vesper with any abrasive materials. No chemical should be used. We recommend drying the Vesper with a soft, clean cloth.**



Before rinsing the Vesper, make sure the charging cap is properly closed.



If not used for a long period, remember to charge the battery at least once every 6 months.



When not in use, leave the charging cap open to dry any water trapped on the connector.

### 8.2 STORAGE

The Vesper should be stored in a ventilated environment preferably between 0°C (32°F) and +40°C (104°F), avoiding the direct action of sunlight, pollution, dirt, etc. For both storage and transportation of the Vesper, use of the original rugged case is suggested.

## 9 - WARRANTY

1. The OCEAN REEF Vesper electronic device is guaranteed to be free of material or manufacturing defects for a period of 24 months from the time the unit is purchased.
2. For the duration of the above mentioned warranty, the Company's responsibility is limited to replacement of any parts that are defective and that have not been used incorrectly or handled negligently. The product must be returned to the outlet from which it was bought.
3. Even during the warranty period, this warranty shall not be valid where:
  - Damage was caused by incorrect handling or carelessness.
  - Damage was caused by the product falling after it was purchased.
  - Damage caused by fire, earthquake, floods, lightning, or other natural disasters.
  - The product has not been serviced as required.
  - The product has been tampered with or has been repaired/serviced with non-original parts.

You can find a copy of this and other OCEAN REEF manuals online on our website. In order to limit our paper consumption, and as a part of our environmental friendly and responsible approach, OCEAN REEF recommends, in case you lose or damage this manual, to consult the documentation present online rather than print it out.

Please refer to our web site:  
[diving.oceanreefgroup.com/support/](http://diving.oceanreefgroup.com/support/)



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# NOTES:

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