

# Photon

## The first real LED - lamp

The Photon is the first real LED lamp, because it's the only LED lamp with just one LED but with the brilliancy of a strong halogen lamp.

The **strongest compact LED** in the world (Osram Ostar) provides for a properly bundled beam of light in connection with a special reflector (no lenses!) with an emission characteristics of approx. 10° with daylight colour temperature. With this LED we equal the brightness of a 50W halogen burner.

The Integrated lamp electronic controls and protects the LED against excessive temperature. After the scheduled burning time, an emergency light is still available for an extended period.



#### Technical data:

- Osram Ostar 1000 Lumen LED with a nearly unlimited durability
- 12,6V-1,6Ah LiMn accumulator
- burning time: approx. 60 min
- additional emergency light for 30 min
- discharge protection
- 2-stage dimming
- light colour temperature: approx. 6000 °K
- very natural colour reproduction
- length: 185mm
- handhold diameter: 45mm
- max. diameter: 53mm
- weight: 560g
- drift: 250g
- quick charger (110-230V) approx. 2 hours
- body: aluminium, black anodised
- pressure resistance: 200m diving depth
- starting protection (shiftable switching ring)
- 2 years warranty also for the accumulator

Real one-hand operation by means of the switching ring with a 2-stage dimming, handy and bright.

The PHOTON's lamp head is also usable for our LED-Cave. The LED-Cave is a heavy duty tank system with 12,6V - 9,6Ah LiMn accumulators allowing a burning time of more than 6 hours. We offer a quick fastener for the tank for installation to the diving equipment, as well as a handhold or Goodman handle for the LED head.

Here you may see that it's possible to offer a modular system also with a high-quality design. Perfect processing, intelligent construction and comfortable handling: PHOTON



### Photon, a fist full of light

# LED - CAVE

## Tank-system with high-power LED (Ostar)



*2 years warranty time  
for all LiMn-accumulators*

Tank system LED - CAVE standard equipment. LED head with reversible switching ring (transportation lock)



optional accessories for the LED-CAVE system:  
Clip with handle; Goodman handle (here with LED head), tank bracket for mounting on the diving bottle. Clip and GH dispose of the same switching magnet as the reversible switching ring of the LED head.

**LED-CAVE**, a professional tank system with considerable advantages. Source of light is finally a real high-performance LED with a maximum luminance of over 1000 lumens. Significantly brighter than the susceptible 10W HID bulb and virtually indestructible. 6000°K produces a natural colour reproduction.

Equipped with the best rechargeable batteries which are available for diving lamps: lithium manganese rechargeable batteries. LiMn rechargeable batteries have absolutely no memory effect, nearly no self-discharge and no performance drops during cold water dives.

The capacity of 9.6Ah which is available here enables a burn time of approx. 6 hrs. at maximum performance with subsequent emergency lighting of approx. 3 hrs. Duration is increased by 50% when used in a dimmed state and the brightness is reduced to approx. 75%

The LED head is dimmed and operated by turning the switching ring. The same function is performed by turning the head in the clip and in the Goodman handle.

This LED system is convertible in both directions: the tank system turns into the PHOTON and vice versa (option).

The storage tank does not have to be opened for charging. The charge socket is located in the connection adapter for the LED head

### Technical Data:

Rechargeable battery: 12,6V-9,6Ah  
Lithium-manganese-accumulator  
LED: Ostar 1000 Lumen LED  
2 step dimming  
Discharge protection  
Burning time: approx. 6 hrs at max. output plus 3 hrs. emergency light

Dimensions:  
Tank: L = 235mm;  $\varnothing$  = 66mm  
LED-Kopf: L = 87 mm;  $\varnothing$  = 53 mm  
Weight: 1,64 kg  
Drift: 0,7 kg  
Travel-charger

### Accessories (optional):

Clip with handle  
Goodman-Handle  
Bracket for battery-tank