

TIGERSHARK mk2 Midsize

The diving flashlight Tigershark mk2 is the evolution of the intermediate model of the range products ARTEK®. It has been designed to deliver 850 lumens of light output with higher light penetration during immersion. Perfect compromise between power and size. New features to increase security to this unit.



DESIGN PROCESS

We have designed a product with an ideal form factor. Its small width makes it very easy to use, with powerful lighting without being a massive flashlight. There is an aesthetic redesign, changing its appearance slightly thanks to hard anodizing without pigment and more minimalist and stylized lines. We have used a different LED than previous versions of Tigershark. There is an improvement in the concentration of the main beam (spot), getting a much more penetrating light.

LIGHT POWER AND RUNTIME

This flashlight has a power of 850 lumens in a very small size. The power is constant during the 2 hours and 30 minutes of runtime.

In 2012 we presented our first version of the Tigershark, with 750 lumens.

OPTICAL SYSTEM

The combination of a specially selected quality LED and the aluminium reflector designed by ARTEK® makes possible to have a beam of more than 30.000 lux at one meter. The previous version did not exceed 17.000 lux.

C.T.P.

It has a temperature control that offers security. This flashlight can be used on surface use without any risk, since in the event of an increase in temperature, the power is regulated gently, avoiding dangerous temperatures.

BATTERY WARNING AND SAVING MODE

The Tigershark mk2 light has a low battery warning device. With a few flashes, it alerts us that the battery is low. Automatically, after flashes, the power drops to the level of *battery saving mode*. In this way the remaining autonomy increases and we do not run out of light, allowing us to access our backup focus if necessary.

SIZE - PERFORMANCE RATIO

To be able to deliver 850 lumens for 2 hours and 30 minutes makes it necessary to use two high-capacity lithium batteries. Still, we have a very contained size.

QUALITY

All components of this unit, from the battery to the LED itself, are extremely well cared for. The material used for the flashlight body is machined aeronautical grade aluminium anodized according to military specifications. The LED is manufactured by CREE®, but it is also carefully selected to have the performance we demand.

The reflector is designed to provide a concentrated beam with high efficiency. The batteries are lithium batteries, with high capacity and no memory effect.

MADE IN SPAIN

Like all our flashlight, it is designed and manufactured in Spain, from the SMD welding process into the PCB, to the machining and anodizing of the aluminum body.

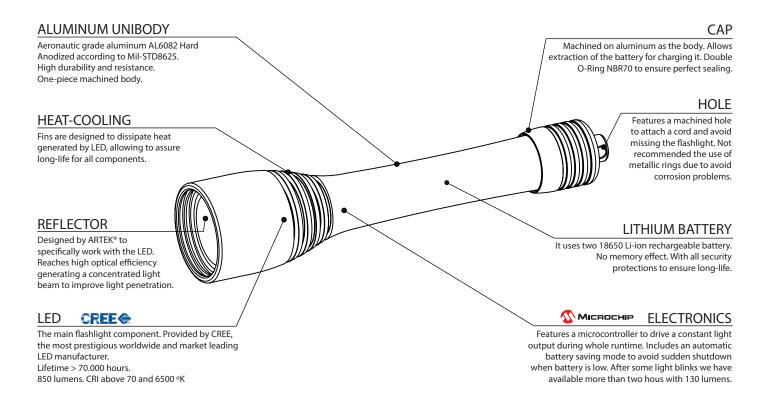
In addition, unit has its own unique serial number that identifies it.



Tigershark mk2 Side view



Front view. Detail
The LED from CREE® ensures a
high efficiency with a very
high quality light.





Lithium batteryNo memory effect.
Low autodischarge.
Ref. ARBT02



Dual ChargerIt charges two batteries independently.
Ref. ARCH01



Carrying bag
Its perfect for carrying and storing the flashligh and its battery and charger.
Ref. ARPK001



Set Tigershark

Included: flashlight, batteries, dual charger and the carrying bag. Ref. ARTS01S

ALL INCLUDED

Set Tigershark (Ref. ARTS01S) includes all the components needed to use the flashlight since the first minute, no external accessories needed.

- Tigershark flashlight
- Dual charger
- 2 batteries
- Spare O-rings
- Carrying bag

LED AND OPTICAL SYSTEM

LED choice is one of the most critical design points on the flashlight. We select the specific LED focusing not only on electrical efficiency but also considering light-emission pattern, color temperature and chromatic reproduction index. All these parameters combined determine the final quality of whole product.

Reflector oversees directing all light emitted by LED. It's critical to feature a good optical system to ensure the total light output. Power without control is useless.

ARTEK® has always defined clearly all the characteristics of our products. It's as important a good light flux (lumens) as the light intensity delivered on the surface (lux at 1 meter). Redesigning Tigershark we have done an improvement to reach 850 lumens and the great value of 30.000 lux at 1 meter. The previous version did not exceed 17.000 lux.

Once light value is reached we need to provide good quality of it. We use a 6500K color temperature LED and 70 CRI which warrants the more fidelity of colors lightened by this flashlight.

LITHIUM BATTERY

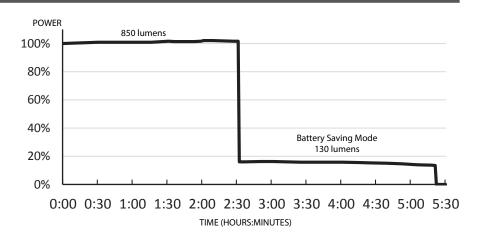
Batteries proposed for Tigershark are two 18650 Li-ion cell with a capacity of 3400mAhty. Due to this we can provide 2 hours and 30 minutes of constant light output (plus extra battery saving mode). Li-ion batteries have the characteristic of avoid memory effect, so it's no necessary to exhaust it before charging it again, in fact, is recommended to charge it every time is used, even if it's not discharged entirely.

ELECTRONIC DRIVER

Tigershark is very easy to use by turning the cap clockwise until it lights up. We recommend turning on the light before immersion and to turn it off with quarter turn counter-clockwise. Electronic driver oversees regulating the electrical current developed to LED. You will have the same light power at the first minute as two hours later.

BATTERY WARNING AND BATTERY SAVING MODE

Thanks to the microcontroller from Microchip that features this model, we have control of the battery state in every moment. Before the battery reach its limit, this flashlight gives us some blinks, to warn us about the low battery state. Automatically tha flashlight goes to battery saving mode, delivering 15% of full power output, offering 130 lumens during two additional hours. This mode allows to finish the activities we desire without sudden light shutdown.



REFERENCES

Set Tigershark (flashligh, two batteries, dual charger and carrying bag)	Ref. ARTS01S
Tigershark	Ref. ARTS01
Battery	Ref. ARBT02
Dual charger	Ref. ARCH01
Carrying bag	Ref. ARPK001

TECHNICAL DATA

DIMENSIONS

Head diameter 45 mm 24,8 mm Body diameter 201 mm Length

Weight with battery 302 gr

LIGHTING

Luminous flux 850 lumens (130 in Battery Saving Mode)

Illuminance 30.000 luxes @ 1 metro Emitter L.E.D. from Cree. 70 min

Color rendering index CRI Color temperature 6500 K Beam profile Spot ±3,7° Spill ±38°

ELECTRICAL FEATURES

Driver Constant current

Polarity, short circuit and overdischarge protections

Progressive temperature control (PTC)

Switch Clockwise turning tail cap

Runtime 2 hours 30 minutes + battery saving mode Battery Saving Mode: 2 extra hours at 15% 2 units

Battery

Lithium ion 3,7V 3400 mAh Panasonic cell.

Protected. Dual charger

Charger

100 - 264 VAC 50/60 Hz Input:

12/24 VDC 2x 4,2VDC Output:

MATERIALS

Aluminum alloy AL6082. Aeronautic grade Body and cap

Hard anodized. Mil-STD 8625

Polycarbonate Lens Reflector Aluminum

QUALITY

CE

IP 68 200 meters IΡ