

BARRACUDA

Long range Flashlight

The dive light BARRACUDA borrows combining the former units TIGERSHARK and ORCA. Has been designed to offer the best performance in a compact size. Its great power and concentrated beam makes it perfect for demanding dives. It exceeds 60,000 lux to 1 meter. Incorporates low battery detection.



DESIGN PROCESS

BARRACUDA becomes the most powerful hand focus model of ARTEK®, so we have pampered the design to the smallest detail. The body is made of a single piece of aluminum, providing robustness and eliminating possible sealing problems. The new OSRAM equipped LED allows a multiplied light intensity with adequate cooling needs.

LIGHT POWER AND RUNTIME

This focus model has a power of 1300 lumens with a runtime of 1 hour and 50 minutes at full capacity.

OPTICAL SYSTEM

The use of a new LED of the latest generation, with a smaller emission surface, in combination with our reflectors of our own design achieve light intensity figures of 50,000 luxes at 1 meter. Very high light intensity values that guarantee a good range in situations of murky water and poor visibility.

BATTERY AND RESERVE NOTICE

The Barracuda has a low battery warning. Through a few flashes, he warns us that the battery is almost exhausted. Automatically, after the flashes, the power drops to reserve level. In this way the remaining runtime increases and we do not run out of light, allowing us to access our back up focus if necessary. This model has a light output of 1300 lumens and 1Hour 50 minutes of runtime at full power.

C.T.P.

It has a temperature control that offers security. This focus can be used on the surface without any risk, since in the event that the temperature increases, the power is regulated gently, preventing the temperature from being dangerous.

SIZE - PERFORMANCE RATIO

Being able to deliver 1300 lumens for 1 hour and 50 minutes constantly makes it necessary to use two lithium batteries with high capacity. Thanks to its aluminum reflector, we get a concentrated beam and a useful crown. All this in a focus of compact size.

QUALITY

All components of the bulb, from the battery to the LED itself, are extremely careful. The material used for the focus body is anodized aircraft grade machined aluminum with military specifications. The LED is manufactured by OSRAM, but it is also carefully selected, to have the performance we demand.

The reflector is designed to offer a concentrated beam with high efficiency.

MADE IN SPAIN

Like all our flashlights, it is designed and manufactured in Spain. From the SMD welding process of the circuit to the machining of aluminum and anodizing. In addition, each unit has its unique serial number that identifies it.



BARRACUDA
Side view



Front view detail
The OSRAM LED
assures a high performance
and quality light

ALUMINUM UNIBODY

Aeronautic grade aluminum AL6082.
Anodizado duro según noramtiva Mil-STD 8625.
Muy resistente y duradero.
Cuerpo en una sola pieza.

HEAT COOLING

Fins are designed to dissipate heat generated by LED, allowing to assure long-life for all components.

REFLECTOR

component specifically designed by us to work perfectly with the new LED.
Reaches high optical efficiency improving beam light.

LED



Main component. Provided by OSRAM®
Lifetime greter than 70.000 hours.
1300 lumens. CRI above 70 and 6500 °K.

TAIL CAP

Machined on aluminum as the body. Allows extraction of the battery for charging it. Double O-Ring NBR70 to ensure perfect sealing.

HOLE

Features a machined hole to attach a cord and avoid missing the flashlight. Not recommended the use of metallic rings due to avoid corrosion problems.

LITHIUM BATTERY

It uses two 18650 Li-ion rechargeable battery.
No memory effect. With all security protections to ensure long-life.



Features a microcontroller to drive a constant light output during whole runtime. Includes an automatic battery saving mode to avoid sudden shutdown when battery is low. After some light blinks we have available more than two hous with 180 lumens.



LI-ION BATTERY
No memory effect.
Low autodischarge
Ref. ARBT02



DUAL CHARGER
It charges two batteries independently.
Ref. ARCH06



CARRYING BAG
Its perfect for carrying and storing the flashlight and its battery and charger.
Ref. ARPK001



ALL INCLUDED

Set Barracuda (Ref. ARBRO1S) includes all the components needed to use the flashlight since the first minute, no external accessories needed.

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

LED AND OPTIC

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). With BARRACUDA we have done an improvement to reach 1300 lumens and the great value of 60.000 lux at 1 meter.

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

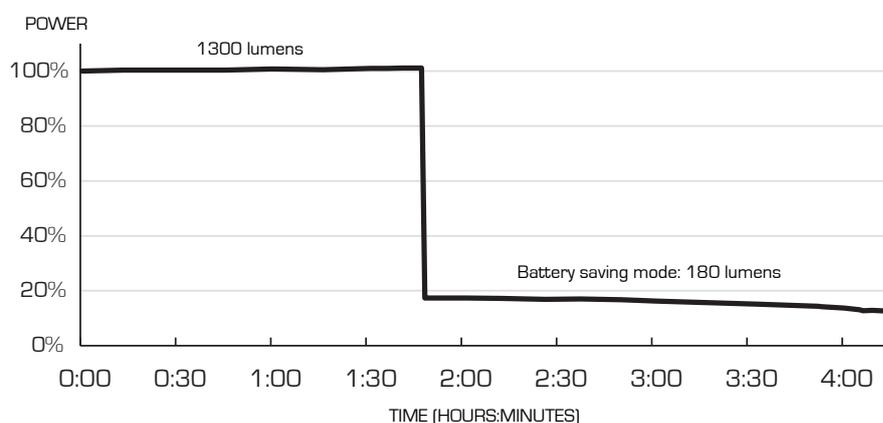
Batteries proposed for BARRACUDA are two 18650 Li-ion cell with a capacity of 3400mAh. Due to this we can provide 1 hour and 50 minutes of constant light output (plus extra battery saving mode). Li-ion batteries have the characteristic of avoid memory effect, so it's no necessary to exhaust it before charging it again, in fact, is recommended to charge it every time is used, even if it's not discharged entirely.

ELECTRONIC DRIVER

BARRACUDA 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 one hour later.

AVISO DE BAJA BATERÍA Y FUNCIÓN DE RESERVA AUTOMÁTICA

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 the flashlight goes to battery saving mode, delivering 15% of full power output, offering 180 lumens during two additional hours. This mode allows to finish the activities we desire without sudden light shutdown.



REFERENCES

Set Barracuda (flashlight two batteries, dual charger and carrying bag)	Ref. ARBR01S	EAN. 8436559090452
Barracuda	Ref. ARBR01	EAN. 8436559090445
Battery	Ref. ARBT02	EAN. 8436559090193
Dual charger	Ref. ARCH06	EAN. 8436559090483

TECHNICAL DATA

Rev. 1.0 1/2023

WEIGHT AND DIMENSIONS

Head diameter	45 mm
Body diameter	24,8 mm
Length	201 mm
Weight including batteries	328 grams

LIGHT FEATURES

Luminous flux	1300 lumens (180 battery saving mode)
Illuminance	60.000luxes @ 1 m
Emitter	L.E.D. OSRAM.
Color Rendering Index	70 minimum
Color temperature	6500 K
Beam profile	Spot $\pm 2^\circ$ Spill $\pm 38^\circ$

ELECTRICAL FEATURES

Driver	Constant current. Polarity, short circuit and overdischarge protections Progressive temperature control (PTC)
Switch	Clockwise turning tail cap
Autonomía	1 hora y 50 minutes + battery saving mode Battery saving mode: 2 extra hours at 15%
Battery	2 units Lithium ion 3,7V 3400 mAh Panasonic cell. Protected.
Charger	Dual charger Input: 100 - 264 VAC 50/60 Hz Output: 2x 4,2VDC

MATERIALS

Body and tail cap	Aluminum alloy AL6082. Aeronautic grade Hard anodized. Mil-STD 8625
Lens	Polycarbonate
Reflector	Aluminum

QUALITY

CE	YES
IP	IP 68 200 meters