The Oceanex Sunbeam Concept –
a new philosophy of underwater lights

The evolution from HID to LED or how to make the step without compromises

by Oceanex

Price list on page 6
Oceanex Sunbeam – a new philosophy of dive lights

The following information will give you an idea of our modular primary dive torch system „SUNBEAM“.

The Sunbeam concept has been developed by scuba divers. We all are active in special environments: The North Sea as a very rough offshore area and some caves as definite closed systems. Therefore, we were looking to find a solution for salty water, waves and currents, bad visibility as well as a comfortable handling and – of course – hard usage on a RIB where it is dirty and things can get damaged by other equipment.

We started with the idea of an LED-based test-tube system – in our opinion, nothing has ever been more efficient and nothing has been tough enough as underwater light. Jacques Cousteau and Hans Hass used it in the early days of diving exploration; the facts for this concept have never been beaten. Highly pressure proof due to small volumes, highly efficient through thin glass and perfectly focusable – the test-tube design is celebrating a comeback.

The SUNBEAM concept picks up the old idea and unites the knowledge of former generations of explorers, today’s tech-divers and the immense light power, energy efficiency and durability of new generations of LED’s. We developed a modular concept, which allows every diver to find his individual light configuration suiting every diving situation without losing team compatibility – all Sunbeams have “DIR”-standard. For the head you can choose your own configuration of the programmable electronic, e.g. different count and strength of power steps, deep discharge downstepping and hidden SOS. Further options are available. They all have XHP-70.
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LED, 4,8A/30W, and a closed adjustable Goodman handle with a thumbhole in a very ergonomic position, a focusable beam and about 95,000 Lux (4.022lm). The body is just ocean proof anodized aluminum alloy, stainless steel and Delrin®; we do not make compromises about materials. With our very strong and consequent dogma of the SUNBEAM concept you can experience our philosophy of durability: We designed it with very few parts, like Antoine de Saint-Exupery said: “Perfection is achieved, not when there is nothing more to add, but when there is nothing left to take away.” The parts are big enough to be proof against any kind of corrosion and small enough to have good dimensions. As far as possible there are no metal-on-metal connections on screws and movable parts. That concept underlines the durability of SUNBEAM lights.

Another dogma of the SUNBEAM concept is its modularity. We think you should be able to help yourself at every place in the world you are. Therefore, you can open all parts without special tools. A Swiss army-knife or a multitool is more than sufficient to help yourself. The lamp has an integrated tool to open the burner unit in the backside of the reflector head. You can fix problems on demand like replacing the burner unit (underwater) or to change the electronic box, the reflector or the E/O-Cord.

**Facts about the SUNBEAM primary head:**
- 4.022lm/95.000 Lux/ 5.000 K color temperature
- hard anodized alloy, Delrin® and V4A stainless steel only
- sealed electronic, pins hard gold plated
- everywhere double O-ring sealed
- programmable electronic box included, switching on the canister, free choose of modes by order
- adjustable Goodman handle, focusable beam
- thumb loop in ergonomic position
- reflector unit removable for use as video light
- everything is changeable without tools: reflector, test tube, electronic box, E/O-Cord – easily to remove and replace.
Our flagship is the set containing the SUNBEAM-head and XS-battery pack made by UWAVIS (our supplier for battery packs from southern Germany) along with a very strong programmable loader. It has a burn time of eight hours on maximum power. Battery packs are made of selected Li-Ion cells containing its own charging and discharging electronic. Different lids for all canisters are available; please check in the table on page 6.

Also very interesting is the set with the “Mini” battery pack, it’s our lightweight and gives you the reserve of 4 h maximum burn time. Even a step smaller (Micro) is possible too, but for my idea of diving it is more suitable for warm water diving. A back of the hand version is coming soon. All bundles come with case and loader as seen in the picture on the right which also shows you the big battery pack called “XS” (because it is really small too…).

Here you can see a comparison of uwavis battery pack sizes:

23,8 Ah; 13,7 Ah and 6,8 Ah. The “mini” in the middle is a little smaller than a 0,5l beer can. All tanks are tested at least 4 hours in a pressure chamber at 11 bar.

As you can see at the right picture, the electronic includes a charge level indicator with 5 leds.
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facts about the UWAVIS battery packs:

- technology: selected Li-ion cells
- burn time approx. 8 /4 /2,15 hours
- safety: UN 38,3 certified; certification via QR-code on the battery pack
- electronic: charging/ discharging driver fully sealed in silicone, provides shortcuts, makes longer lifetime of cells
- charge level indicator by 5 LEDs
- golden banana plugs for simple and safe charging
- sealed lid: in case of leaking E/O-Cord the battery will not be damaged.
- different lids: you may choose between “classic” with 1 switch and 1 E/O-Cord, “dual” with 2 cords and switches for heating and lightning and “sidemount” with 1 90° angled cord
- canisters very durable made from carbon fiber

The electronics and the lids are completely sealed with silicone. There will be no water leaking to the battery in case of broken cable or switch. The lid is also sealed with double O-rings which makes it even more durable.

The batteries are certified by the international standards UN 38.3 for safe transport in airplanes, ships and busses.

Therefore, you are allowed to take these battery packs on board of an airplane. Still you should check with the airline before you do so.

data of UWAVIS battery packs:

<table>
<thead>
<tr>
<th></th>
<th>XS</th>
<th>Mini</th>
<th>Micro</th>
</tr>
</thead>
<tbody>
<tr>
<td>length [mm]</td>
<td>270</td>
<td>185</td>
<td>120</td>
</tr>
<tr>
<td>diameter [mm]</td>
<td>61</td>
<td>61</td>
<td>61</td>
</tr>
<tr>
<td>weight classic [g]</td>
<td>1510</td>
<td>1040</td>
<td>725</td>
</tr>
<tr>
<td>weight dual [g]</td>
<td>1680</td>
<td>1210</td>
<td>n/a</td>
</tr>
<tr>
<td>weight sidemount [g]</td>
<td>1540</td>
<td>1070</td>
<td>755</td>
</tr>
<tr>
<td>Voltage [V]</td>
<td>11.1</td>
<td>11.1</td>
<td>11.1</td>
</tr>
<tr>
<td>Capacity [Ah/Wh]</td>
<td>23.8/265</td>
<td>13.6/150</td>
<td>6.8/75</td>
</tr>
<tr>
<td>battery weight [g]</td>
<td>1040</td>
<td>610</td>
<td>330</td>
</tr>
</tbody>
</table>

We hope you find that the philosophy of Oceanex and Uwavis fits perfect: Keep it simple and stupid, but do it at your best.
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On the sheet below you will find details of available sets and their prices:

**SUNBEAM V2.x HEAD ONLY:**  
830,- € incl. VAT, excl. shipping

**SUNBEAM V2.x BURNER UNIT:**  
425,- € incl. VAT, excl. shipping

**BUNDLES:**

<table>
<thead>
<tr>
<th>Capacity</th>
<th>lid</th>
<th>&quot;Classic&quot;, 1 E/O-Cord 85cm</th>
<th>&quot;Dual&quot;, 2 E/O Cords 85cm, 2 switches for heating or video</th>
<th>&quot;Sidemount&quot; 1 E/O-Cord 85cm with 2 latches 50mm for belt on the canister</th>
</tr>
</thead>
<tbody>
<tr>
<td>XS 23.8 Ah; burn time 8h 100%</td>
<td>green= +1 battery red= +1 tank of the same type</td>
<td>€1.570  €1.890  €2.339</td>
<td>€1.720  €2.040  €2.589 with 2nd XS classic: 2.489 €</td>
<td>€1.560  €1.880  €2.349 with 2nd XS classic: 2.329 €</td>
</tr>
<tr>
<td>Mini 13.7 Ah, burn time 4h 100%</td>
<td></td>
<td>€1.480  €1.710  €2.130</td>
<td>€1.630  €1.860  €2.380 with 2nd mini classic: 2.280 €</td>
<td>€1.490  €1.720  €2.150 with 2nd mini classic: 2.140 €</td>
</tr>
<tr>
<td>Micro 6.8Ah, burn time 2.15h 100%</td>
<td></td>
<td></td>
<td>not possible in cause of cell power</td>
<td>1.380 €, no 2nd latch for 50mm belt 1.540 € 1.950 € With 2nd micro classic: 1.940 €</td>
</tr>
</tbody>
</table>

All prices are valid until revoked.
THE CAVE’N WRECK EDITION

Sunbeam is modular – as you’ve seen. Our heads are all prepared to mount arrows & cookies as well as line markers. The markers can be purchased in our web shop. Please ask for further information.

REEL “Ariadne”

We have constructed a REEL called “Ariadne” with completely new features: - i.e. a new position of the brake and special u-profile that helps you using the reel a very long time without getting tired hands. It gives you better stability and it is designed in a very ergonomic way. Prices: 240m: 249 €; 120m: 229 €

COMING SOON:

Oceanex doesn’t rest: Our development team is constantly working on new ideas. You have ideas, nobody ever heard about and you are looking for partners to realize it? Please let us know!

Heating connector valve

Combined drysuit valve: very small, 300° turnable with a very clever design plus the adaptability to be replaced at both kinds of common drysuit inflating valves. Following our own rules it is made from Delrin, Teflon and V4A stainless steel only.

Oceanex sunbeam solitaire

The little sister of sunbeam – same features as sunbeam V2.x, but cordless with redundant reed switches – 6.8Ah/ 2:20 h burn time. Battery Uwavis micro. 1.160 €

Oceanex Universal Tool “OUT”

Fits our Goodman-handle and brings you all the functionality you need: small screwdriver for the burner units opener and the small contact scews, drop point knife,
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net hook, Scissor, 21mm-open-end wrench. Made from one piece of stainless steel. Price 29,- €

You want to know more? Would you like to place an order? Please feel free to contact our team:

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www.oceanex.de

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