

## LIGHT UP

## YOUR DIVES

COMPILED BY KYLIE PERRIN



DIVE TORCHES. THEY COME IN ALL DIFFERENT SHAPES, SIZES, COLOURS AND THE TECHNICAL SPECS CAN BE SURPRISINGLY COMPLEX. WHILE THE NEED FOR A DIVE TORCH MAY BE OBVIOUS TO SOME, NEW DIVERS MAY NOT BE AWARE OF THE NECESSITY FOR A GOOD TORCH. BUT WHETHER YOU ARE A 'NOOB' OR AN 'OLD DOG', WE'VE COLLECTED PLENTY OF USEFUL INFORMATION FOR YOU ON SOME OF THE LATEST TORCHES AVAILABLE.

## PART ONE: DIVE TORCHES &lt; \$200

**AQUATEC**

Aquatec was launched in 1985 in the US.  
[www.aquatecusa.com](http://www.aquatecusa.com)  
 In Australia see [www.oceanicaus.com.au](http://www.oceanicaus.com.au)

**AQUATEC AQUA LUMEN**  
 RRP \$150.00




SIZE 16x4cm BURN-TIME +50 hours  
**EXTRAS** Includes polycarbonate body with aluminium head, lanyard

**BEUCHAT**  
*Inspired by the sea*

Beuchat was founded in 1934 in France.  
[www.beuchat.fr](http://www.beuchat.fr)  
 In Australia see [www.beuchat.com.au](http://www.beuchat.com.au)

**DL3**  
 RRP \$69.00




SIZE 17cm length WEIGHT 180g  
 BURN-TIME +9 hours **EXTRAS** Includes thermoplastic body

**DL4**  
 RRP \$75.00




SIZE 21cm length WEIGHT 230g  
 BURN-TIME +9 hours **EXTRAS** Includes thermoplastic body

**LED 3**  
 RRP \$199.00




SIZE 17cm length WEIGHT 180g  
 BURN-TIME +6 hours **EXTRAS** Includes thermoplastic body

**HOLLIS**

Hollis is based in the US.  
[www.hollisgear.com](http://www.hollisgear.com)  
 In Australia see [www.oceanicaus.com.au](http://www.oceanicaus.com.au)

**HOLLIS 4AAA**  
 RRP \$170.00




**W**hen you're putting together your dive kit, a torch can easily be overlooked as you fork out money for the more expensive regulators, computers, BCDs, fins, suits and other essentials. But a torch is an integral part of any good dive kit. It needn't be expensive, as long as it meets your needs. In fact, when you're starting out a cheaper torch can be the way to go, as you are still learning what you will need, and it can always be used as your back up torch when you get that expensive one in years to come.

And perhaps that is you right now. You're an experienced diver with a clear understanding of why a torch is essential. But times change, and so have dive torches. So if you are looking for an update or an affordable back up, you may be surprised by what these new torches can offer.

**Why do I need a dive torch?**

The most obvious need for a dive torch is night diving or cave diving. But this isn't the only time when a dive torch can come into it's own. Consider the environment you're proposing to dive.

Visibility can vary greatly from location to location, and also from time to time. It is also worth thinking about what you plan to do while you are diving. Exploring small caves, coral crevices and under jetties will cause the amount of ambient light to change, and surely there's nothing worse than finally discovering that illusive critter, only to lose it in the gloom.

Safety is also a key reason to include a torch as part of your kit. You can use it to signal other divers, and it can be invaluable as a locator beacon if visibility suddenly drops and you're left in the dark. It is also worth considering two torches, one as your main light and a second as a back up. Because no matter how thoroughly you plan, things can go wrong and those batteries can go flat at the most inconvenient times.

And remember, just because it is a 'dive torch' doesn't mean you can't use it like any other torch. Keep it in your car for the time you need to change a tyre in the dark, or take it camping with you - if the tent floods, it will be the only thing still guaranteed to be working!

SIZE 11x4cm WEIGHT 217g  
 BURN-TIME +15 hours **EXTRAS** Includes aircraft aluminium body, inbuilt strobe, inbuilt battery life indicator

Ikelite is a US based underwater equipment manufacturer founded in 1962.  
[www.ikelite.com](http://www.ikelite.com)  
 In Australia see [www.aquanaut.com.au](http://www.aquanaut.com.au)

**PCM LITE HALOGEN**  
 RRP \$30.00




SIZE 5x11cm WEIGHT 190g (including batteries) BURN-TIME +1.5 hours **EXTRAS** Includes rotating switch with lock, and limited lifetime warranty

**PCM LITE LED**  
 RRP \$70.00




SIZE 5x11cm WEIGHT 235g (including batteries) BURN-TIME +5 hours **EXTRAS** Includes rotating switch with lock, and limited lifetime warranty

**PCA LITE HALOGEN**  
 RRP \$32.00




SIZE 6.5x11cm WEIGHT 250g (including batteries) BURN-TIME +2.5 hours **EXTRAS** Includes rotating switch with lock,

and limited lifetime warranty

**PCA LITE LED**  
 RRP \$74.00




SIZE 6.5x11cm WEIGHT 300g (including batteries) BURN-TIME +7 hours **EXTRAS** Includes rotating switch with lock, and limited lifetime warranty

**PC LITE HALOGEN**  
 RRP \$36.00




Note: Prices shown are in Australian dollars and were correct at time of publishing. Please check pricing with your regional distributor.

**SIZE** 6.5x16cm **WEIGHT** 410g (including batteries) **BURN-TIME** +4 hours  
**EXTRAS** Includes rotating switch with lock, and limited lifetime warranty

**PC LITE LED**  
RRP \$78.00



**SIZE** 6.5x16cm **WEIGHT** 450g (including batteries) **BURN-TIME** +10 hours  
**EXTRAS** Includes rotating switch with lock, and limited lifetime warranty

**MINI C-LITE**  
RRP \$40.00



**SIZE** 7x16cm **WEIGHT** 510g (including batteries) **BURN-TIME** +4 hours  
**EXTRAS** Includes lanyard lug at back, stainless steel pocket clip, folding switch with lock, and limited lifetime warranty. Photography mount available

**RCD LITE**  
RRP \$80.00



**SIZE** 10x15cm (excluding handle) **WEIGHT** 1.2Kg (including batteries) **BURN-TIME** +10 hours  
**EXTRAS** Includes rubber protected front bezel with plated corrosion-resistant internal components, rotating switch with lock and limited lifetime warranty



Intova started in 1995 in Hawaii.  
[www.intova.net](http://www.intova.net)

**COMPACT**  
RRP \$50.00



**SIZE** 24x13x5cm **WEIGHT** 181g  
**BURN-TIME** +6 hours **EXTRAS** Includes aluminum body, magnetic switch, lanyard and limited warranty

**NOVA**  
RRP \$66.00



**SIZE** 24x12x5cm **WEIGHT** 272g  
**BURN-TIME** +10 hours **EXTRAS** Includes aluminum body, magnetic switch, lanyard and limited warranty

**MINI**  
RRP \$72.00



**SIZE** 13x3x3cm **WEIGHT** 167g  
**BURN-TIME** +10 hours **EXTRAS** Includes aluminum body, magnetic tail switch and limited warranty

**NOVA WIDE ANGLE**  
RRP \$77.00



**SIZE** 24x12x5cm **WEIGHT** 266g  
**BURN-TIME** +10 hours **EXTRAS** Includes aluminum body, magnetic switch, lanyard and limited warranty

## OCEANIC

Oceanic was founded in the US in 1972.  
[www.oceanicworldwide.com](http://www.oceanicworldwide.com)  
In Australia see [www.oceanicaus.com.au](http://www.oceanicaus.com.au)

**OCEANIC 4AA**  
RRP \$170.00



**SIZE** 11x5.5cm **WEIGHT** 315g  
**BURN-TIME** +45 hours **EXTRAS** Includes ABS polycarbonate body, inbuilt strobe, inbuilt battery life indicator

## OMER

BREATHLESS EMOTIONS

OMER was founded in Italy during the 1970s.  
[www.omersub.com](http://www.omersub.com)  
In Australia email [pelagic@motpub.com.au](mailto:pelagic@motpub.com.au)

**MOONLIGHT**  
RRP \$88.00



**SIZE** 17cm length **WEIGHT** 250g (including batteries) **BURN-TIME** +3 hours  
**EXTRAS** Includes ABS resin body, lanyard

**MINIMICRA**  
RRP \$100.00



**SIZE** 12x6x4.5cm **WEIGHT** 175g (including batteries) **BURN-TIME** +1.5 hours  
**EXTRAS** Includes polyurethane strap, exclusive quick release mechanism to carry the flashlight on the belt, and a

mechanical switch which can be operated with one hand



Pelican Products was started in the US in 1978.  
[www.pelican.com](http://www.pelican.com)  
In Australia see [www.pelicanaustralia.com](http://www.pelicanaustralia.com)

**1900 NEMO**  
RRP \$22.00



**SIZE** 10.4cm length **WEIGHT** 50g (including batteries) **BURN-TIME** +2 hours  
**EXTRAS** Includes ABS resin body, clip, split ring, twist head to activate and covered under Pelicans Lifetime Warranty Guarantee

**1960 NEMO LED**  
RRP \$65.00



**SIZE** 14cm length **WEIGHT** 55g (including batteries) **BURN-TIME** +3 hours  
**EXTRAS** Includes ABS resin body, clip, twist head to activate and covered under Pelicans Lifetime Warranty Guarantee

**2000 NEMO**  
RRP \$56.00



**SIZE** 20cm length **WEIGHT** 360g  
**BURN-TIME** +5 hours **EXTRAS** Includes ABS resin body, clip, split ring, lanyard, twist head to activate and covered under Pelicans Lifetime Warranty Guarantee

**2010 NEMO RECOIL LED**  
RRP \$96.00



**SIZE** 20cm length **WEIGHT** 380g  
**BURN-TIME** +50 hours **EXTRAS** Includes ABS resin body, clip, split ring, lanyard, twist head to activate and covered under Pelicans Lifetime Warranty Guarantee

**2410 NEMO RECOIL LED**  
RRP \$93.00



**SIZE** 18cm length **WEIGHT** 210g (including batteries) **BURN-TIME** +32 hours  
**EXTRAS** Includes ABS resin body, unique easy slide thumb switch, lanyard and covered under Pelicans Lifetime Warranty Guarantee

**4100 NEMO**  
RRP \$155.00



**SIZE** 24cm length **WEIGHT** 2.1kg  
**BURN-TIME** +12 hours **EXTRAS** Includes ABS body, polycarbonate lens, and thermoplastic shroud, 2 reflectors, back-up lamp, dual directional switch with lock, adjustable pistol grip/lantern handle, lanyard, shock absorbing internal battery module and covered under Pelicans Lifetime Warranty Guarantee

**4200 NEMO**  
RRP \$79.00



**SIZE** 13cm length **WEIGHT** 660g **BURN-TIME** +4 hours **EXTRAS** Includes ABS

body, thermoplastic overmolds and polycarbonate lens, removeable magnetic switch, negative buoyancy, spare xenon lamp and covered under Pelicans Lifetime Warranty Guarantee



**4300 NEMO**  
RRP \$97.00



**SIZE** 19cm length **WEIGHT** 1.04kg  
**BURN-TIME** +4 hours  
**EXTRAS** Includes ABS body, thermoplastic overmolds and polycarbonate lens, removeable magnetic switch, negative buoyancy, spare xenon lamp and Pelicans Lifetime Warranty Guarantee



Princeton Tec is based in the US.  
[www.princetonotec.com](http://www.princetonotec.com)  
In Australia see [www.oceanicaus.com.au](http://www.oceanicaus.com.au)

**PRINCETON TEC IMPACT XL**  
RRP \$100.00



**SIZE** 15cm length **WEIGHT** 197g (including batteries) **BURN-TIME** +50 hours  
**EXTRAS** Includes polycarbonate molded rubber body, impact resistant design, wrist lanyard, twist head to activate, limited lifetime warranty

**PRINCETON TEC TORRENT LED**  
RRP \$170.00



**SIZE** 17cm length **WEIGHT** 365g (including batteries) **BURN-TIME** +30 hours **EXTRAS** Includes polycarbonate plastic body, lockable toggle switch, wrist lanyard and lifetime warranty



Scubapro started in the 1960s in the US. [www.scubapro.com](http://www.scubapro.com)  
In Australia see [www.scubapro.com.au](http://www.scubapro.com.au)

**NOVA**

RRP \$129



**SIZE** 12cm length **WEIGHT** 109g **BURN-TIME** 6-8 hours **EXTRAS** Includes rugged, corrosion resistant aluminum barrel, easy push button switch, wrist lanyard and limited warranty

**FUEGO**

RRP \$150



**SIZE** 16.5cm length **WEIGHT** 430g **BURN-TIME** +4 hours **EXTRAS** Includes durable molded plastic housing, compact design and limited warranty

**NEW NOVA 230**

RRP \$169



**SIZE** 18cm length **WEIGHT** 250g **BURN-TIME** 18-20 hours **EXTRAS** Includes rugged, corrosion resistant aluminum barrel, 10° super bright LED and limited warranty



Tektite have been manufacturing lights in the USA since 1990.

[www.tek-tite.com](http://www.tek-tite.com)

In Australia see [www.sterlingleisure.com.au](http://www.sterlingleisure.com.au)

**TREK 4**

RRP \$69.00



**SIZE** 19cm length **WEIGHT** 130g **BURN-TIME** +20 hours **EXTRAS** Includes ABS resin body, bungee wrist lanyard and limited lifetime warranty

**EXPEDITION STAR**

RRP \$116.00



**SIZE** 20cm length **WEIGHT** 310g **BURN-TIME** +15 hours **EXTRAS** Includes ABS resin body, adjustable wrist lanyard, 6° beam and limited lifetime warranty

**TREK 4 ALUMINUM**

RRP \$145.00



**SIZE** 19cm length **WEIGHT** 160g **BURN-TIME** +20 hours **EXTRAS** Includes machined anodized aluminum body, adjustable wrist lanyard and limited lifetime warranty

**KEY**

**Halogen Bulbs** are a type of incandescent bulb with a tungsten filament sealed into a transparent envelope filled with inert and halogen gas. This combination causes a chemical reaction known as a halogen cycle. Halogen bulbs have twice the lifetime of a 'regular' incandescent bulb and are much more efficient than regular bulbs. Fingerprints on a halogen bulb can cause hotspots on the surface, which can cause the bulb to weaken and explode.

**Xenon Bulbs** or xenon arc bulbs use ionized xenon gas to produce a bright white light that closely resembles natural daylight. However they're very inefficient and can explode violently if damaged. They are great for precision work but need a consistent power supply to achieve a stable and long lifetime.

**LED** is a light-emitting diode and an electronic light source. LEDs use less energy, have a longer lifetime, and are much smaller than regular bulbs. LEDs come in a variety of colours, which may or may not suit your purposes. Objects lit with LEDs can appear to be different colours as opposed to natural light.

**Alkaline Batteries** are disposable or rechargeable batteries that produce roughly 1.5V and are considered to be the 'standard' battery.

**Lithium Batteries** are disposable batteries that can produce between 1.5V and 3.7V and have a much longer lifetime than alkaline batteries. They can last for years, but cannot be recharged. Be aware that there are restrictions on carrying lithium batteries on airplanes.

**Li-ion Batteries** are rechargeable lithium-ion batteries. Because they can be made of a wide variety of chemicals, voltages vary widely. Li-ion batteries are much lighter than other rechargeable batteries. Their main disadvantage is that every time they are recharged their capacity is reduced.

**NiCad Batteries** are rechargeable nickel-cadmium batteries that produce up to 1.2V. They may not be suitable in all products as replacements for standard alkaline batteries. They provide near constant voltage and as such can be difficult to tell when the charge is running low. A NiCad battery will typically have a longer lifetime than most other rechargeable batteries. However this type of battery is toxic and is banned from sale in Europe.

**NiMH Batteries** are rechargeable nickel-metal hydride batteries that produce up to 1.5V. They are generally suitable replacements for standard alkaline batteries. Like NiCads it can be difficult to tell when the charge is running low. If you over discharge a NiMH battery you can permanently damage it. They don't have as long a lifetime as NiCad batteries, but they are more cost effective.

**Lumen** is the perceived power of light.

**Dive Depth**

| PRICE    | BRAND        | PRODUCT         | SIZE       | WEIGHT            | BATTERIES         | BULB             | LUMENS | BURN TIME | DIVE DEPTH |
|----------|--------------|-----------------|------------|-------------------|-------------------|------------------|--------|-----------|------------|
| \$22.00  | Pelican      | 1900 Nemo       | 10.4cm L   | 50g w/batteries   | 2 AAA Alk.        | 1.1 watt Xenon   | 7      | +2 hrs    | 150m       |
| \$30.00  | Ikelite      | PCm Lite        | 5x11cm     | 190g w/batteries  | 4 AA Alk. NC. NM. | 5 volt Halogen   | N/A    | +1.5 hrs  | 90m        |
| \$32.00  | Ikelite      | PCa Lite        | 6.5x11cm   | 250g w/batteries  | 6 AA Alk. NM.     | 7.2 volt Halogen | N/A    | +2.5 hrs  | 90m        |
| \$36.00  | Ikelite      | PC Lite         | 6.5x16cm   | 410g w/batteries  | 4 C Alk. NM.      | 5 volt Halogen   | N/A    | +4 hrs    | 90m        |
| \$40.00  | Ikelite      | Mini C Lite     | 7x16cm     | 510g w/batteries  | 4 C Alk.          | 5 volt Halogen   | N/A    | +4 hrs    | 90m        |
| \$50.00  | Intova       | Compact         | 24x13x5cm  | 181g              | 3 AAA Alk.        | 4.7 watt LED     | 130    | +6 hrs    | 120m       |
| \$56.00  | Pelican      | 2000 Nemo       | 20cm L     | 360g              | 3 C Alk.          | 3.3 watt Xenon   | 33     | +5 hrs    | 150m       |
| \$65.00  | Pelican      | 1960 Nemo       | 14cm L     | 55g w/batteries   | 2 AAA Alk.        | 0.5 watt LED     | 24     | +3 hrs    | 150m       |
| \$66.00  | Intova       | Nova            | 24x12x5cm  | 272g              | 2 CR123 Lith.     | 4.7 watt LED     | 130    | +10 hrs   | 120m       |
| \$69.00  | Beuchat      | DL3             | 17cm L     | 180g              | 3 C Alk.          | 3.5 watt Halogen | N/A    | +9 hrs    | 150m       |
| \$69.00  | Tektite      | Trek 4          | 19cm L     | 130g              | 3 AA Alk.         | LED              | 38.6   | +20 hrs   | 300m       |
| \$70.00  | Ikelite      | PCm Lite LED    | 5x11cm     | 235g w/batteries  | 4 AA Alk. NM.     | 5 watt LED       | 135    | +5 hrs    | 90m        |
| \$72.00  | Intova       | Mini            | 13x3x3cm   | 167g              | 2 CR123 Lith.     | 4.7 watt LED     | 130    | +10 hrs   | 120m       |
| \$74.00  | Ikelite      | PCa Lite LED    | 6.5x11cm   | 300g w/batteries  | 6 AA Alk. NM.     | 5 watt LED       | 135    | +7 hrs    | 90m        |
| \$75.00  | Beuchat      | DL4             | 21cm L     | 230g              | 4 C Alk.          | 4.5 watt Halogen | N/A    | +9 hrs    | 150m       |
| \$77.00  | Intova       | Nova Wideangle  | 24x12x5cm  | 266g              | 2 CR123 Lith.     | 4.7 watt LED     | 130    | +10 hrs   | 120m       |
| \$78.00  | Ikelite      | PC Lite LED     | 6.5x16cm   | 450g w/batteries  | 4 C Alk. NM.      | 5 watt LED       | 135    | +10 hrs   | 90m        |
| \$79.00  | Pelican      | 4200 Nemo       | 13cm L     | 660g              | 4 C Alk.          | 6.9 watt Xenon   | 112    | +4 hrs    | 150m       |
| \$80.00  | Ikelite      | RCD Lite        | 10x15cm    | 1.2kg w/batteries | 4 D Alk.          | 5 volt Halogen   | N/A    | +10 hrs   | 90m        |
| \$88.00  | Omer         | Moonlight       | 17cm L     | 250g w/batteries  | 6 AA Alk.         | 6 watt Halogen   | N/A    | +3 hrs    | 100m       |
| \$93.00  | Pelican      | 2410 Nemo       | 18cm L     | 210g w/batteries  | 4 AA Alk. (incl.) | 1 watt LED       | 84     | +32 hrs   | 150m       |
| \$96.00  | Pelican      | 2010 Nemo       | 20cm L     | 380g              | 3 C Alk.          | 1 watt LED       | 65     | +50 hrs   | 150m       |
| \$97.00  | Pelican      | 4300 Nemo       | 19cm L     | 1.04kg            | 8 C Alk.          | 13.8 watt Xenon  | 276    | +4 hrs    | 150m       |
| \$100.00 | Omer         | Minimicra       | 12x6x4.5cm | 175g w/batteries  | 4 AA Alk.         | 5 watt Halogen   | N/A    | +1.5 hrs  | 100m       |
| \$100.00 | PrincetonTec | Impact XL       | 15cm L     | 197g w/batteries  | 4 AA Alk. (incl.) | 1 watt LED       | 45     | +50 hrs   | 100m       |
| \$116.00 | Tektite      | Expedition      | 20cm L     | 310g              | 3 C Alk.          | XRE LED          | 150    | +15 hrs   | 150m       |
| \$129.00 | Scubapro     | Nova            | 12cm L     | 109g              | 3 AAA Alk.        | 3 watt LED       | N/A    | 6-8 hrs   | 120m       |
| \$145.00 | Tektite      | Trek 4 Aluminum | 19cm L     | 160g              | 3 AA Alk.         | LED              | 38.6   | +20 hrs   | 615m       |
| \$150.00 | Aquatec      | Aqua Lumen      | 16x4cm     | N/A               | 3 C Alk.          | LED              | 230    | +50 hrs   | 120m       |
| \$150.00 | Scubapro     | Fuego           | 16.5cm L   | 430g              | 4 C Alk.          | 5 watt LED       | 160    | +4 hrs    | 60m        |
| \$155.00 | Pelican      | 4100 Nemo       | 24cm L     | 2.1kg             | 8 D Alk.          | 14.4 watt Xenon  | 251    | +12 hrs   | 150m       |
| \$169.00 | Scubapro     | Nova 230        | 18cm L     | 250g              | 3 C Alk.          | 5 watt LED       | 230    | +18 hrs   | 120m       |
| \$170.00 | Hollis       | 4AAA            | 11x4cm     | 217g              | N/A               | LED              | 150    | +15 hrs   | 100m       |
| \$170.00 | Oceanic      | 4AA             | 11x5.5cm   | 315g              | N/A               | LED              | 140    | +45 hrs   | 100m       |
| \$170.00 | PrincetonTec | Torrent LED     | 27cm L     | 365g w/batteries  | 8 AA Alk. NC. NM. | 3 watt LED       | 95     | +30 hrs   | 100m       |
| \$199.00 | Beuchat      | LED 3           | 17cm L     | 180g              | 4 AA Alk.         | 3 watt LED       | 150    | +6 hrs    | 80m        |