

| Technical information          |                      |
|--------------------------------|----------------------|
| Cable light                    | KL1242               |
| Material                       | Aluminium*           |
| Size                           | Round 68 x 160mm     |
| Weight above water             | 0,5 kg               |
| Weight under water             | 0,1 kg               |
| LED type                       | LED 20W - 1500 Lumen |
| Colour temperature             | 5500K - 6000K        |
| Variable light power two steps | 30% - 100%           |
| Cable length                   | 100 cm.              |
| Pressure tested to 25 bar      | ✓                    |

| Battery tank                    | FX1204            | PR1209 / FX1209  | PR1213           |
|---------------------------------|-------------------|------------------|------------------|
| Material                        | Aluminium*        | Aluminium*       | Aluminium*       |
| Size                            | 65 x 75 x 230     | 65 x 75 x 340    | 65 x 75 x 480    |
| Weight above water              | 1,6 kg            | 2,9 kg / 2,5 kg  | 3,7 kg           |
| Weight under water              | 1,0 kg            | 1,7 kg / 1,4 kg  | 2,7 kg           |
| Battery type                    | NIMH              | NiMH             | NiMH             |
| Battery power                   | 12 Volt 3,8 Ah    | 12 Volt 9 Ah     | 12 Volt 13 Ah    |
| Charger                         | MP1100 / MP2500   | MP2500           | MP2500           |
| Charging time                   | appr. 4 / 2 hours | appr. 4,5 hours  | appr. 7 hours    |
| Capacity met 1500Lumen LED HEAD | appr. 140 min.**  | appr. 300 min.** | appr. 480 min.** |
| Quick release system            | no                | ✓ / no           | ✓                |
| Pressure tested to 25 Bar       | ✓                 | ✓                | ✓                |

\* In accordance with American Military Standard MIL-A-8625-E type 3 class 2.  
Also the coating is impregnated with Teflon.

\*\* Measured by 100% power and water temperature 20°Celsius.

#### Warranty

The Metalsub torch warranty will start on the date of purchase. The warranty period is 24 months and will only count when the torch has been used in the way the manufacturer advises and has explained in the outlines.

During this warranty period we will repair all problems that are caused by manufacture related mistakes.

We will take no responsibility for damage that is done through misuse or normal wear and tear of the Metalsub dive light for whatever reason. There is no warranty on the o-rings. The warranty period of the battery pack is 12 months from purchase date. Until 36 months from purchase we offer a fair settlement.

We will give no warranty when any person has carried out any repair or rebuilding on our products by themselves!

All goods being returned for warranty must be returned prepaid, sufficiently packed under the owners risk to your Metalsub dealer.

|        |
|--------|
| dealer |
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## Manual



## CABLE LIGHT KL1242-LED1500



Battery tank PR1209 / PR1213

Battery tank FX1204 / FX1209

## SAFETY PRECAUTIONS!

- A. Read this manual carefully before using the divelamp.
- B. When you are diving in situations where your life can depend on having sufficient light (for instance in caves or on wrecks), make sure you always take a back-up light with you.
- C. Prior to airtravel, disconnect the cablelamp from the batterypack, so as to prevent overheating should the lamp be switched on by accidental impact or mishandling. Also discharge the batterypack.
- D. To prevent a short-circuit, it is essential to plug the battery tank with the supplied tankplug(s).
- E. Always use the supplied charger.
- F. Charging the lamp: - always in a dry and well ventilated place  
- ambient temperature between 0 and 30°C  
- never by open fire
- G. When changing the light head, always disconnect the light from the battery tank first.
- H. Never shine the light directly into eyes, this can cause eye damage.

## HOW TO USE THE DIVE LIGHT:

### Charging the battery pack

The charger is suitable for mains between 100-240 Vac. We deliver the battery pack empty, so it is important to charge the empty pack completely with a full charge cycle.

Make sure that the connector is clean and dry. Securely plug the charge connector into the battery tank.

The charger is fitted with a Delta-V charge controller. The charge controller switches over to pulse charging as soon as the battery reaches its full power. Please wait until the small light (LED) on the charger lights green continuously before you disconnect the charger from the battery pack.

Charging: The LED indication lights red continuously.

Battery pack full / trickle charge: the LED indication lights green continuously.

### Warning:

**Always use the charger that is delivered with the dive light!!! The use of other chargers can damage the battery cells inside!!!**

### Connection the cable light onto the battery tank

The connection of the cable light to the battery pack is done by placing the connector in the water seal connector seat on the battery pack. The connection is made with a little inward push and a turn to the right. Disconnection is done by doing the same sequence in reverse.

**Make sure that the connectors are completely clean and dry.** When necessary, clean the O-ring and use a little bit of silicone grease to produce a better water tight seal.

### Warning:

**Never disconnect the the light from the battery pack under water!!!! This will damage the connector inside the battery pack!!!!!!**

### Switching the cable light on and off

The light is switched on by sliding the locking bolt on the switch backwards and then turning the switch to the right 45° (position 1) = dim position, or 90° (position 2) = 100% capacity.

To lock the light, slide the locking bolt back and rotate the switch to the left until it clicks (locks) into the locked position; the light will turn off

### The LED display on the back of the lamp housing tells you the following:

|                   |   |
|-------------------|---|
| LED green:        | 100% - 50% remain capacity  |
| LED orange:       | 50% - 20% remain capacity   |
| LED red:          | 20% - 10% remain capacity   |
| LED red blinking: | 10% - 0% remain capacity left: the light will automatically drop down to 50% capacity (10 minutes are left before the light switches off) |

Note: These values are guiding values only and depend very much on water temperatures and the type of battery tank!  
The values shown above were measured at a water temperature of 20°Celsius. In colder water (for instance 10°Celsius or less) the LED light will go from green to orange in just a few minutes.

### Remark:

If you don't use the torch for a long time we advise you to disconnect the cable light from the battery pack to prevent discharging of the battery pack.

**Never store the battery pack uncharged for a long period. If the battery pack is not used for a long period, we advise you first to charge the battery pack completely and then every three months to discharge and recharge the battery pack completely.** When the battery has been stored uncharged for a long period, it can lose its charge entirely. This can cause irreparable damage to the battery cells.

## Signal option:

**Beacon flash (one flash per second):** turn the switch (within 1 sec.) from position 2 to pos. 1 and back to pos. 2.

**Strobe flash (four flashes per second):** turn the switch for a second time (within 1 sec.) from position 2 to pos. 1 and back to pos. 2.

**S.O.S. flash:** turn the switch for a third time (within 1 sec.) from position 2 to pos. 1 and back to pos. 2.

**The S.O.S. flash should only to be used in case of an emergency. In this position it flashes S.O.S. in Morse code, 3 x short – 3 x long – 3 x short.**

To exit any signal option: turn off the dive light or turn the switch to position 1.

## Deep discharge protection

When the battery is almost empty (0,9 V per cel) the deep discharge protection will switch off the light. This prevents damage of the battery cells.

## Removal of the light head

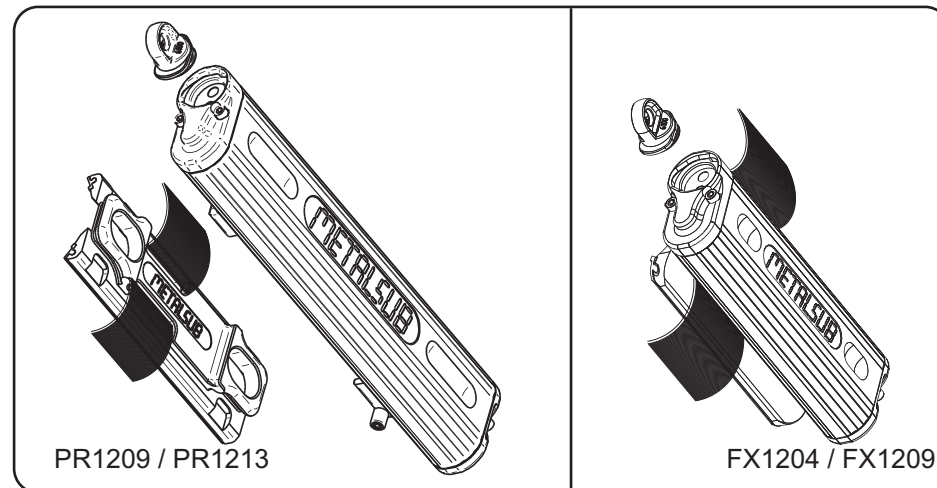
Unscrew the light head (anti clockwise). Before reassembly clean the O-rings, or replace the O-rings when damaged or deformed and apply a thin coating of silicone grease. Reposition the light head and turn it clockwise until it is firmly in place.

## Connection of the battery tank PR1209 / PR1213 onto the tank or BCD

First connect the tank plate onto the bottle or jacket belt.

You can use two methods:

1. Connect the tank plate with stainless steel belts on the bottle
2. Connect the tank plate on the BCD belt by guiding the belt through the slots in the plate (see figure).  
Now you can connect the battery pack onto the plate by depressing the locating button, pushing the battery pack down onto the locating part then, onto te securing port and release the locating button



## Connection of the battery tank FX1204 / FX1209 onto the cylinder

Slide the bracket of the battery tank over the belt of the stabilizing jacket. Close the belt securely.

## General:

- After each dive, soak the lamp in clean fresh water for a few minutes. (Note: not the contacts in the cable port on the batterytank!!)
- Rinse the dive light under running water to remove all traces of sand and salt.
- Avoid physical impact.
- Avoid overheating and direct exposure to sunlight.
- To make sure the light doesn't overheat or cause burn damage to objects in its immediate vicinity, it is advisable to use it only under water.