



MAX PLANCK 6000
DIVING
FLOODLIGHT

(LT-6000LM-100)

Functional Description and Specifications

Intended Use

The Max Planck 6000 by Nemo is a commercial diving floodlight intended for wide-angle illumination, professional underwater photography, videography, and nighttime search and rescue.

The floodlight contains 18 LEDs (ten white, four red, and four blue) which together provide various working modes, including:

- ◆ Wide-angle white LED floodlight mode
- ◆ Blue light fish attractor mode
- ◆ Static red light mode for professional underwater photography and color balancing
- ◆ Flashing red light mode

The floodlight casing is made of durable aviation-grade aluminum that undergoes anodizing treatment to protect it from seawater corrosion. The floodlight is waterproof to a depth of 100 meters (328ft).

Packing List

Your Max Planck 6000 floodlight is packaged together with the following accessories:

- ◆ Four rechargeable lithium-ion (Li-ion) batteries
- ◆ Nitecore Intellicharger i4 battery charger
- ◆ Quick Release (GoPro-type) mount
- ◆ Aluminum Goodman handle
- ◆ Neoprene carrying case

Technical Specifications

Battery Charger

Model	Nitecore i4 Intellicharger
Charging output voltage	42V \pm 1% / 148V \pm 1%
Charging input voltage	AC 100-240V or DC 12V 1A

Nemo Commercial Diving Floodlight

Model	Max Planck 6000
Battery voltage	18V Li-ion
Battery cell specification	Li-ion 18650 cell
Working voltage	3.0V - 4.2V
Modes	<ul style="list-style-type: none">◆ Wide-angle white floodlight (three intensities: 25%, 50%, 100%)◆ Blue light mode◆ Static red light mode◆ Flashing red light mode
Maximum brightness	7000 lumens
Dimensions	Head diameter: 65mm (2.6 in) Body diameter: 50.3mm (2 in) Length: 119mm (4.7 in)
Net weight (with batteries)	600g (21 oz)
Working temperature	60°C (140°F)
Submersible up to	100m (328 ft)

Safety Warnings



Warning: Read all safety warnings and instructions, and save them for future reference. Failure to adhere to these warnings can result in serious injury and damage to equipment.

Floodlight Safety

- ◆ The Max Planck 6000 is a powerful floodlight meant for use underwater. Using the floodlight outside of the water for prolonged periods will cause the floodlight to heat up significantly. Do not keep the floodlight on for more than five minutes at a time outside of the water.
- ◆ Check that all openings on the floodlight are tightly sealed before every dive.
- ◆ Clean the thread on the torch body, as well as the surface and the switches, with clean water after every dive. You can use a mild cleanser to clean the switches if they are blocked. After the floodlight dries, add waterproof lubricants to the thread.
- ◆ Charge the battery soon after every dive, or at least once every three months.
- ◆ Never shine the floodlight directly into human or animal eyes.
- ◆ When the floodlight is on, do not cover the head of the floodlight.

Rechargeable Battery Safety

- ◆ Use only Li-ion 18650 batteries like those supplied with your power tool.
- ◆ When the batteries are not in use, keep them away from other metal objects like paper clips, coins, keys, nails, and screws, which can make a connection from one terminal to another.
- ◆ Store the batteries only within a temperature range of 0°C - 45°C (32°F - 113°F).

- ◆ Do not open the batteries.
- ◆ Protect the batteries against heat, including continuous sun irradiation and fire.
- ◆ When a battery is defective, liquid can escape and come in to contact with adjacent components.
- ◆ Use only batteries with the voltage listed on the nameplate of your floodlight. When using batteries with other voltages, there is danger of injury as well as property damage through exploding batteries.
- ◆ Protect the battery charger from rain and moisture. The battery charger is not waterproof.
- ◆ Before use, always check the battery charger, cable, and plug. If you detect defects, do not use the battery charger. Never open the battery charger. Instead, have it opened and repaired only by qualified personnel who will use original spare parts.

Getting Started with the Floodlight

Your Max Planck 6000 includes the following main components:



Charging the Batteries

The Li-ion batteries are supplied partially charged, and must be charged to full capacity before using the floodlight for the first time. When the batteries are fully charged, the floodlight can run at the highest intensity for up to one hour.



Caution: Only use a battery charger designed for the Li-ion 18650-type batteries supplied with your floodlight.



Danger: Ensure that the power supply voltage corresponds with the data on the nameplate of the battery charger.



Danger: Only use the charger in a dry environment. The charger is not waterproof. Never attempt to charge the batteries under water.

The batteries can be charged at any time without reducing their service life. The battery charger detects the charging condition of the batteries, and charges them with the optimum current. Interrupting the charging procedure does not damage the batteries.

1. Connect the mains plug of the battery charger to an electrical outlet. A blue LED on the top-right corner of the battery charger indicates that the charger is ready for operation.
2. Insert each of the four batteries in to the charger.



Note: If you are only charging two batteries, put them in slots 1 and 3, or slots 2 and 4.

The batteries begin charging as soon as they are connected to the charger, and stop charging as soon as they are full.

- ◆ Flashing LEDs on a slot indicate that a battery is charging.
- ◆ Steady LEDs on a slot indicate that a battery is fully charged.

Inserting the Batteries in to the Floodlight

1. Insert all four batteries in to the battery compartment, with the positive terminals facing up.
2. Tightly screw the battery compartment on to the floodlight, using slight force to overcome the friction caused by the O-rings.



Note: Screwing the battery compartment tightly on to the floodlight ensures that the batteries make proper contact, as well as that the floodlight remains waterproof.

Removing a Battery from the Floodlight

1. Rotate the battery compartment counterclockwise.
2. Pull the battery pack out and down, without exerting any force.

Mounting the Goodman Handle

1. Locate the hole on the floodlight body, opposite the switches.
2. Use a screw to secure the Goodman handle to the floodlight body.



Operating the Floodlight

Switching the Floodlight On or Off

- ◆ Press the left switch to turn on the floodlight's ten main (white) LED lights. The white light has three intensities, and by default comes on at 100%. Press the switch a second time to reduce the intensity to 50%, press it a third time to reduce the intensity to 25%, and press it a fourth time to return to 100%. Hold down the switch for four seconds to turn off the floodlight.
- ◆ Press the right switch to toggle between the floodlight's red and blue modes. By default, the colored light comes on solid red. Press the switch a second time for flashing red, a third time for blue, and a fourth time to return to solid red. Hold down the switch for four seconds to turn off the floodlight.



Note: Both the white and the colored lights can be used simultaneously, but they must be switched on and off separately.



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Maintenance

Servicing the Floodlight

If your floodlight is damaged or faulty, have it repaired by an authorized service technician.



Caution: Under no circumstances should the floodlight be opened for repairs or any other purpose by anyone other than an after-sales service technician authorized by Nemo Power Tools. Opening the floodlight invalidates the manufacturer warranty.

Transporting the Floodlight

The battery pack has effective protection against internal over-pressure and short-circuiting, as well as devices preventing violent rupture and dangerous reverse current flow.

The lithium-equivalent content in the batteries is below applicable limit values. Therefore, the batteries are not subject to national or international regulations pertaining to dangerous mediums, either as individual components or when inserted into a floodlight.

However, the regulations governing dangerous goods may be relevant when transporting several batteries. In this case, it might be necessary to comply with special conditions, such as those governing packaging.

Disposing of the Floodlight

At the end of its lifecycle, the floodlight, its accessories, and packaging should be sorted for environmentally friendly recycling.

Do not dispose of the batteries in household waste, fire, or water. Batteries should be collected, recycled, or disposed of in an environmentally friendly manner.

Troubleshooting

If you have any questions about operating or troubleshooting the floodlight, visit the FAQ and troubleshooting sections at www.NemoPowerTools.com.

Nemo Power Tools Ltd
www.nemopowertools.com