



FOUR4TH

Safety

Please read the whole of this manual before using your FOUR4TH light.

The light is very powerful and could easily blind oncoming road and trail users, so never shine it directly into another person's line of vision. Likewise, you should never look directly into the source of the LED as it can damage eyesight.

The light is very powerful and has the potential to damage eyesight, so never shine it directly into the line of vision of other road or trail users. Likewise, you should never look directly into the source of the LED.

The light is designed for use in outdoor activities only, where it will receive an adequate air flow to keep the body cool. The unit can become hot when used at its high setting, so handle with care and ensure it has cooled down before leaving it unattended.

Battery

Only use the dedicated FOUR4TH battery charger and only charge at 14.8v. Using any other charger can cause explosion.

Never throw, drop or crush the lithium polymer (Li-po) battery and do not allow it to come into contact with sharp objects. If you are using the battery in the neoprene pouch, always carry it separately to prevent damage. Always disconnect the battery from the unit when you are not using it, even for short periods of time or when transporting it in a rucksack. Incorrect use of the battery can cause fire, explosion or leakage. It is advisable to use a Li-po sack while charging, and never leave unattended.

Flashing mode

Some people are sensitive to flashing lights – especially those who suffer from epilepsy – so please exercise discretion when using the flashing mode.

Cable

Carefully route the cable to avoid the risk of it catching in rotating parts. A detached cable could easily become tangled so ensure it is correctly fitted to the light unit before use. See 'Hints and tips' further on in this guide for how to store excess cable.

The light and bracket

When mounted on its bracket, the light has 5 positions in the horizontal plane: central, and two clicks either way.

Disengaging and engaging the unit when the 'o' ring is not in use

Disengaging: From the central position, three clicks to the left or right will disengage the light and it can be slid away from the bracket.

Engaging: Hold the bracket with the retained 'o' ring facing forwards. With your other hand, hold the light so that 'www.four4th.co.uk' faces you. Slide the boss on the bottom of the light into the recess on the bracket and gently rotate the light until it makes contact with the sprung-loaded bearing. At this point push down to depress the bearing and rotate two clicks to put the light in its central position.

Disengaging and engaging the unit when the 'o' ring is in use (eg. attached to handlebars)

Disengaging: From the central position, three clicks to the left or right will disengage the light but the 'o' ring acts as a retainer, preventing the light from simply sliding away from the bracket. To release, twist the light so that the lens is facing you (180 degrees), rock it slightly backwards and pull up, lifting it over the 'o' ring as you do so (there is a small 45 degree chamfer on the bottom of the light which allows it to pass over the 'o' ring).

Engaging: Hold the light so that 'www.four4th.co.uk' is horizontal to the bars (90 degrees). Position it on top of the 'o' ring and push down to compress the rubber. This will allow you to push forward and into the recess on the bracket. Gently rotate the light until it makes contact with the sprung-loaded bearing. At this point push down to depress the bearing and rotate two clicks to put the light in its central position.

Mounting the unit

Your FOUR4TH light is attached to its mount with an integral 'o' ring and is ready to be fitted on your bars or helmet, depending on which option you have chosen.

a) Handlebars: Place the bracket on the bars and wrap the 'o' ring around the bar and into the recess on the rear of the bracket.

b) Helmet: Place the bracket on your helmet and assess the best position. Having determined this, put one 'o' ring around one hook on the bracket. Place the bracket on the helmet and allow the 'o' ring to drop through one of the vents. Using your other hand, feed the 'o' ring back up through another vent and attach it around the same hook on the bracket. Repeat the process for the other side, using the second 'o' ring and pushing the mount towards the centre which will make the final connection easier. This needs to be tight and you may need to experiment to find the position that best suits your helmet.

Fitting the battery pack

Fit the cable to the connector on the back of the light, gently rotating the cable until you feel the pins align, then push home. Screw the knurled nut until it is hand tight. If you are using the battery in the neoprene pouch, carry it separately to prevent damage.

Power mode

When you connect the power cable to the light unit you may notice a brief flash from the LED in the on/off switch, which indicates a charged 14.8v battery has been connected. The light is now ready for use.

- Press the switch once: the light is now on its lowest setting. You can toggle quickly between low and high settings with a single press. (Remember the unit requires air flow to keep cool when on its highest setting, so we recommend you only use this when you are in motion.)
- Press and hold to turn the light off.
- Press and hold again to activate flash mode. When in flash mode, single presses toggle between Low Flash : High Flash : Low On plus High Flash. Press and hold again to turn the light off.

Without air flow the unit will become hot in the HIGH setting and after 5–10 minutes the motion and temperature control sensor will automatically throttle back to give you the maximum amount of light in such conditions. When the unit sense motion again it will automatically ramp up to maximum brightness and the red switch LED will go out indicating maximum power is attained.

LOW setting = Preparing to ride, repairing punctures, stopping to talk, reading maps etc.

MEDIUM setting (Holy Moses & Genesis 3 spot) = Riding

HIGH setting = Riding

If the LED on the switch flashes red when you have attached the cable this indicates the battery has less than 12v of power and requires a full charge before use.

Battery

During normal use if the red LED on the on/off switch gives two sets of three flashes this indicates 50% power remaining in the battery. The next warning is two sets of two flashes from the red LED and two momentary flashes from the main beam indicating two minutes of full power remaining. The light will then ramp down to low beam and a single flash from the red LED switch indicates 15 minutes of 'get you home' time.

Charging the battery

When the battery charge is depleted, disconnect the light from the battery. Plug the FOUR4TH battery charger into the mains and the LED on the lower left corner will show green. Attach the cable to the connector on the charger by gently rotating the cable until you feel the pins align, then push home. Screw the knurled nut until it is hand tight. The LED will now show red. When a full charge is attained (after approximately 4–5 hours) the LED will show green. Disconnect the battery cable from the charger and unplug the charger from the mains. Only charge at 14.8v using the FOUR4TH charger and do not leave unattended.

Caring for your light

Storage

When your system is not in use, it should always be stored with the light disconnected from the battery, otherwise it will continue to draw a small amount of power. The battery contains circuit protection to prevent over discharge. It should be charged at least once every two months to maintain a healthy condition.

Wet conditions

The battery containers and the light have been designed to withstand adverse conditions. After using in the wet, allow to dry naturally indoors. Never force dry.

Cleaning

Wipe clean with a damp cloth when necessary. Never submerge the unit. Handle and transport with care to avoid scratching the anodised surface.

Hints and tips

Bottle battery system

Excess cable can be stored inside the bottle. Unscrew the lid and carefully coil the cable around the inner neck of the bottle, making sure that there is at least 25mm diameter clearance in the centre which will allow the lid to be screwed back on. Lifting the nozzle slightly will allow the cable to move more freely through the lid, but this is necessarily a tight fit to ensure water resistance. Note that the nozzle won't press completely home because of the sealing ring – the difference between open and closed is only a few millimetres.

A tie is fitted to the cable inside the bottle at a pre-determined point – this indicates the maximum cable length allowed. Attempting to pull the cable beyond this point will cause serious damage.

Neoprene pouch system

If you are carrying your neoprene pouch in a rucksack or hydration system such as a Camelback, we recommend you initially take a few minutes to determine the ideal cable length. This is something you only need to do once. Place the pouch inside your rucksack with the cable fully extended, and put the rucksack on your back. Then, wearing your helmet, feed the cable up to the light. Decide on the right amount of cable, allowing for head movement etc. Remove your rucksack and place a cable tie around the cable at the point where you would like it to exit the rucksack. When the cable tie is positioned inside the rucksack it will act as a stopper against the zip, ensuring that excess cable is retained inside. This should be carefully coiled into the pocket on the front of the pouch. Place the pouch back inside the rucksack, then feed the power end of the cable through the hanging loop on your rucksack (if you have one), and up to your light. Routing the cable through the loop will keep it trim.

Don't forget you can use the quick release mechanism to disengage the light from the helmet bracket. This eliminates the annoyance of having to remove your helmet in order to access your rucksack – in the event of a puncture, for example.

The environment

If you need to dispose of any element of your lighting system, please do so according to recycling schemes operated by your local authority. Do not dispose with your household waste.