

Instructions for use

What's in the box?

- 1 x light unit
- 1 x battery
- 1 x mount
- 1 x charger

Important safety notices

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 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.

You ride at your own risk. Any modification will void warranty.

It is important to check that when the battery is fitted it does not affect steering or interfere with cables. It is the owner's responsibility to check before each ride that the 'o' ring is not cracked or worn. If this is the case it should be replaced.

When attaching any FOUR4TH product to third party equipment you must check with the manufacturer first.

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. Never charge your light while it is attached to your bike. It is considered good practice to only charge your light in a room that is fitted with a smoke detector.

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 five 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 (where applicable). 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 (only on Exodus, Genesis and Sodom), preventing the light from simply sliding away from the bracket. To release, twist the light so that the lens is facing you (180°), rock it slightly backwards and pull up, lifting it over the 'o' ring as you do so (there is a small 45° 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 (where applicable) – 90°. 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) Handlebar Mount: Place the bracket on the bars and wrap the 'o' ring around the bar and into the recess on the rear of the bracket. The Handlebar Mount must be attached around the handlebar and you must pull the 'o' ring down, then around the handlebars to stop friction between the 'o' ring and handlebars.

b) Fixed Handlebar Mount & Gravity Bar Mount: Undo the supplied bolt, push the mount onto the small diameter of the handlebars (closest to the brake lever) and then slide towards the stem into the position you intend to use it. Fit the bolt and tighten into position (5NM). These mounts must be attached around the 31.8mm or 35mm diameter of the handlebars. Different thickness rubber inserts are supplied for the above diameters and should be fitted into place before use.

c) Helmet Mount: 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

Firstly you must remove the quick release bracket from the battery; this is done by removing the flight lock pin, rotating the battery 45° and pulling the battery out to release the bracket. Once you have just the bracket you are now able to fix this in position under the stem. The bracket comes with an 'o' ring which fixes into the two groves either side of the bracket. While holding the bracket in position under the stem, fix the 'o' ring to the right recess (if you are sitting on the bike) and then loop the 'o' ring around the stem allowing your thumb access to the recess on the left of the mount (you must pull the 'o' ring up before going around the stem to stop friction between the 'o' ring and stem). Now that the bracket is fitted to the stem you can straighten the bracket into position and fix the battery. This is done by locating it into position at 45° and rotating the battery back to its original forward facing position. Now that the battery is fitted the quick release mount pin must be fitted to lock the battery in position.

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. The light is now ready for use.

Power mode

When you connect the power cable to the light unit you may notice a brief flicker and then three flashes from the LED in the on/off switch, which indicates the light is configuring. Do not press the switch until it has finished this sequence. After this, the light is 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 will 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, OMG, Sodom) = 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 and battery

Please note that it is the owner's responsibility to keep the battery correctly charged at all times. Leaving the battery depleted over the summer months (or any similar period of time) will cause damage and shorten run times.

Never store your FOUR4TH battery fully charged. It must be slightly depleted but should have more than 50% charge. In this condition it may be stored for up to 2 months. It should be charged at least once every 2 months to maintain a healthy condition. When not in use, the light should always be disconnected from the battery, otherwise it will continue to draw a small amount of power. The battery contains circuit protection to prevent over discharge.

Note that all FOUR4TH batteries are microchipped to record charging history and batteries that have been stored with an incorrect charge will not be covered under warranty.

Preparing to store

We recommend you run the following check by setting up the light on a bike as if you are going to use it for a ride.

- 1 Fully charge the battery then plug into the light and run on low power for 1 hour. Do not leave unattended.
- 2 After 1 hour disconnect the battery from the light, then re-connect. When you see a single flash from the on/off LED switch, immediately put the light on full power for 10 seconds. If you see no further flashes from the on/off switch, the battery has more than 50% capacity and can be stored for 2 months. If you saw 3 flashes the battery is depleted more than 50% and needs charging before it is stored. You must ensure that the battery has over 50% but is slightly depleted.

After storage

If you plug the battery into the light unit and get no flashes on the on/off switch LED and the light is not working, it is likely the battery has gone under voltage. Contact FOUR4TH for advice.

Wet conditions

The battery containers and the light have been designed to withstand adverse conditions but you must remove them from your bike before hosing or jetwashing. After using in wet conditions, 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 Camelbak, 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.

Warnings

Always use the dedicated 14.8 volt FOUR4TH battery charger provided with your light.

Always ride with two independent lights of equal power (in case one fails you have a back-up light source).

Your unit should be serviced annually and after any crash.

The unit may become hot to touch during or after use. Wait until cool before handling.

You may need to add padding (not supplied) under the 'o' rings on the inner surface of your helmet to guard against pressure points.

Fit frame protectors to guard against marking or damage to bike surfaces or accessories.

Check battery 'o' ring is seated correctly and in place before connecting the battery.

When the battery is disconnected from the light unit, water can penetrate the light unit or the battery. Take avoiding action.

Goods are used at the risk of the owner regardless of any consequential actions.