

FOUR4TH SCORPION



Instructions for use

What's in the box?

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

Operating

The light needs a full charge before use. It has three modes and a 'low' and 'high' setting for each mode. The modes are as follows:

Time Trialling Flashes three red LEDs plus green (high and low settings for daytime use only)

Lone Riding Three red LEDs flashing (low setting for night time use, high setting for daytime)

Group Riding Three red LEDs pulsing (low setting for night time use, high setting for daytime)

By firmly touching the centre of the lens and holding your finger on it for one second you will access the Time Trial mode in its 'low' setting. By touching the lens once more you will activate the 'high' setting of that mode. You can toggle between 'low' and 'high' by light touches on the lens. By firmly touching the lens and holding for one second you will switch the unit off.

From this position, firmly touch and hold the lens for 3.5 seconds, during which time the light will move from Time Trial mode into Lone Riding mode, with a frenetic burst of flashing in between to indicate the mode change. Observe this by looking sideways at the glow ring. You are now in the 'low' setting of the Lone Riding mode, and by touching the lens once more you will activate the 'high' setting of that mode. You can toggle between 'low' and 'high' by light touches on the lens. By firmly touching the lens and holding for one second you will switch the unit off.

From this position, touch and hold the lens for 3.5 seconds, during which time the light will move from

Lone Riding mode into Group Riding mode, with a frenetic burst of flashing in between to indicate the mode change. Observe this by looking sideways at the glow ring. You are now in the 'low' setting of the Group Riding mode, and by touching the lens once more you will activate the 'high' setting of that mode. You can toggle between 'low' and 'high' by light touches on the lens. By firmly touching the lens and holding for one second you will switch the unit off.

To get back to Time Trialling mode, firmly touch and hold the lens for 3.5 seconds, and after the frenetic burst of flashing the light will be in Time Trial mode. You are now back to the beginning and can cycle through the modes as described above.

NB. The light will always come on in the 'low' setting of the mode in which it was last used.

Notes

Regulations surrounding rear lighting for bicycles is a grey area in the UK and if you want to be absolutely certain of being within the law, then don't use the TT mode. At FOUR4TH we find there are specific situations (eg. when we're riding a TT on a busy 'A' road in blinding sunlight) when we would prefer to chance the unlikelihood of receiving a £30 fine, than risk being rear-ended by a driver who just didn't see the cyclist in front of him/her. It's for you the rider to make that judgement call.

Always weigh up the conditions that you're riding in when you select your mode.

It is your responsibility to check the Road Vehicle Lighting Regulations for the country in which you are using your lights. We can offer specific program modes for different countries – just ask.

Remove the Scorpion from your bike before hosing or jetwashing.

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Charging

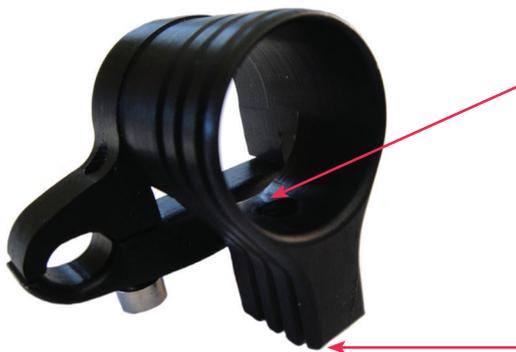
The light comes with a separate plug-in charger. It will take about 4 hours to charge completely from when it is fully discharged. The light will run for up to 3 hours on high power Time Trialling mode, and for up to 20 hours on the Group Riding low power setting. To help extend the long term life of the Li-ion battery, charge the light when it is almost depleted.

Important battery information

Only use the dedicated FOUR4TH battery charger and only charge at 4.2v. Using any other charger can cause explosion.

Never use the unit without first screwing the cap onto the charging port. Care must be taken not to damage the cap as this forms part of the watertight seal.

Never throw, drop or crush the lithium ion (Li-ion) battery and do not allow it to come into contact with sharp objects. Always disconnect the charger from the light when you are not using it. 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.



Each Scorpion is tested and fitted into the bracket before it leaves the factory, therefore a small insertion mark may be visible on battery casing.

Mounting

The Scorpion is designed to attach to the rails of your saddle. Firstly remove the light from the mount by twisting approximately 30° and sliding it out. Loosen the bolts on the mount so that the seat rails can be inserted in the gap. You may need to remove one of the bolts to do this. The bracket has been designed to butt up against the radii at the end of the rails. **Important: Apply Loctite (not supplied) to the bolts.** This step should not be omitted as in some circumstances vibration can cause the bolts to work loose. Next, centralise the bracket and hold firmly in this position while you tighten the bolts. Slide the light back into the mount and twist so that the spring loaded pin in the mount engages with the dimples along the top surface of the light.

The Scorpion is supplied with a lanyard which should be used as a fail-safe to prevent the Scorpion coming loose from the bracket. With the Scorpion fitted under your saddle, loop the lanyard around the seat rails and screw the cap into the charging port. This is also fundamental to keeping water out of the charging port.

Routine maintenance

From time to time you may need to make minor adjustments to the bracket, if you are finding it difficult to engage the Scorpion.

If you are finding it difficult to engage the Scorpion, try this first:

Clean the locating ball bearing using GT85. Use a flat blade to press down the ball bearing in case it has seized, then apply a small amount of 3-in-1 type oil to make sure it is moving freely.

If the above doesn't work try this:

Remove the Scorpion from the bracket. Where the arrow is pointing to from this text box there is adjustment for the sprung loaded pin. Using a flat bladed screwdriver you can adjust the pin inwards to increase the engagement of the pin (NB. you can only adjust it a small amount and never with the Scorpion in the bracket because if you do over tighten here you can pierce the battery casing).

If the Scorpion will not go back in the bracket after adjustment, unscrew the pin to the point where it just goes in.

If the sprung loaded pin moves too easily in the bracket:

Apply a small amount of Loctite to firm the movement.



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Warnings

Always use the dedicated 4.2 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.