

# FOUR4TH SCORPION QR

## Instructions for use

### What's in the box?

- 1 x light unit
- 1 x battery
- 1 x mount
- 1 x retaining 'o' ring
- 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.

### Charging the battery

The Scorpion QR comes with a plug-in charger. It will take 3–4 hours to charge completely from when it is fully discharged. To help extend the long term life of the Li-ion battery, charge the light when it is almost depleted.

Disconnect the light from the battery by unscrewing the slotted collar and firmly pulling the lens section and the battery apart. (The action is a direct pull and not a wobble side-to-side pull, which would weaken the pins.) Plug the FOUR4TH battery charger into the mains and the small LED on the front will glow green. Attach the cable to the battery by aligning the notch on the connector with the corresponding slot on the battery. Gently rotate the cable until you feel alignment, then push home – you will hear a click. The LED on the charger will now show red. When a full charge is attained (after 3–4 hours) the LED will show green. Disconnect the battery from the charger and unplug the charger from the mains.

### Reattaching the battery

Reattach the battery to the Scorpion QR by aligning the notches on the lens section with the slot on the battery. When you feel alignment, push home – you will hear a click. Tighten the collar.

Note: When the unit is correctly attached to the battery there is a 0.2mm gap between the silver collar and the black body. This is a deliberate design feature created by the rubber 'o' ring inside the body. It acts as a water seal and also prevents the two parts of the light becoming unintentionally unscrewed. If you notice this gap has diminished, then it is time to replace the seal. Replacements are available on our website.

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## Important battery information

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

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.

## Mounting

The Scorpion QR is designed to attach to the rails of your saddle. Firstly remove the battery from the bracket. It should slide straight out (do not rotate).

Loosen the M5 bolts on the mount so 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 Bondloc B270 to the bolts.

This is not supplied with the light but is available from hardware stores and our website. Refer to manufacturer's instructions. This step should not be omitted as in some circumstances vibrations can cause the bolts to work loose.

Next, centralise the bracket and hold firmly in position while you tighten the bolts (5Nm). Ensure the bump stop 'o' ring is in place around the battery, pushed up against the silver locking collar. This helps to keep the locking ring and battery together when they are unscrewed from the light head unit, and plays an essential part in reducing vibrations when the light is in the bracket. Now the bracket is in position slide the light and attached battery into the unit. You will notice a screw in the bracket and a slot in the battery: these must align to slide the light into the bracket.

Now the light is in the bracket fit the supplied 'o' ring by pulling it back and into position around the cut-out slot in the bracket. Never ride without the retaining 'o' ring in place.

Having fitted the light, gently pull it forward to ensure the 'o' ring will not allow it to leave the bracket.

For further instructions please visit <https://www.youtube.com/user/four4th>

## Routine maintenance

Wipe clean with dry cloth. Remove from your bike before hosing or jetwashing. Store in a dry place. Keep spare batteries in a clean, sealed bag, to prevent debris and water from contaminating the connectors. When changing a battery mid-ride, replace the depleted battery back into the clean bag. Check the condition of the retaining 'o' ring before each ride.

## Warnings

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.

Always ride with two independent lights (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.

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

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

Refer to the manufacturer's instructions for your saddle before fitting the Scorpion QR, to ensure suitability.

**Do not put your finger inside the bracket as it has a sharp edge which the 'o' ring attaches to.**