

NiteFlux

Red Zone Product Intro, 2021

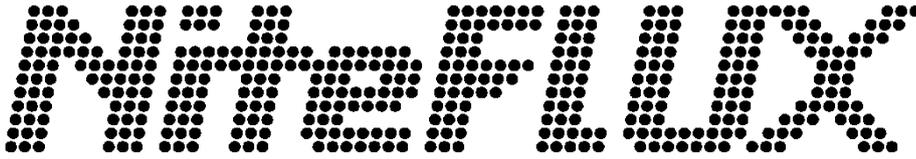


- Charge before use
- One end of the clear plastic housing twists off to access USB socket for charging.
- Other end has red button switch inside, behind a thin-walled section of the tube.
 - Activate the switch by pressing the thin-walled end with your thumb.
- Use USB cable for charging from computer or phone/ipod charger or similar.

- Press switch button to turn on or change modes. Hold one second to turn off.
- 1-4 soft flashes at turn-on, and turn-off indicate runtime remaining.

- Strap and removable ties are included for universal mounting. Or, use quick release clips available at our online store
- Mount with charger cap end upwards, switch end facing downwards.

www.niteflux.com



2021 NiteFlux Red Zone series Product Manual

Using mode button

- Look through the ends of the clear light casing. One end has a red button inside; the other has a USB receptacle for charging.
- Press button briefly to turn on, or change modes.
- Hold one second to turn off.

Remove end for charging.

- The end cap that covers the USB charging has a bayonet style fitment; twist to release.
- The cap may get water or dirt within the mechanism, but this should not pass the o-ring seal. If the cap becomes dirty, it can be washed while the unit is on charge.
- Remember to re-seat the o-ring if it comes out during washing.
- If o-ring ever needs replacing, it is a hard-to-find 50-duro part. Spare parts are available at the NiteFlux website.

Charging

- Power for charging the Red Zone is passed into the USB socket. You can use a USB port on any computer, iPod charger, 5V car adapter or similar. Anything with a USB socket and 5V, 500mA rating or higher will work. Some 5V chargers (eg Motorola, Garmin) have the same USB plug (USB mini) and will also do a good job.
- NiteFlux provides a short (USB mini) cable. Other suitable USB mini cables are widely available in other lengths. You may have other cables at home or office with USB mini on one end. There is no special cable properties required. Any USB mini cable will normally work well.
- During charging, orange LED indicator means charge in progress. Plain green indicates charge done. It is normal for the orange to blink on again from time to time. This indicates charge is being topped up or maintained.
- Charge before use. The Red Zone can be recharged at any time. There is no need to wait for batteries to finish any sort of cycle.

How to I tell what version I have?

- Through the plastic casing, you can see the LED emitters at the end of the circuit board.
 - Red Zone 8 has 2 red emitters each end. Red Zone 4 has 1 red emitter each end.

Range of power settings

- The Red Zone has a wide range of power levels as outlined in the table below. The unit is shipped with settings 1, 5, and 8 active. All the rest are blanked out. You can edit this power menu at any time and choose your own favorites. Most people will settle for a small number of active settings, the actual levels that are chosen allows for personal preference. It is recommended that at least one softer setting be retained for use at night, and one bright flashing be retained for use during the daytime.
- Skipping a power setting is very easy. Just click the mode button until you get to the setting that you want to remove. Then hold the button down and the light will turn off. Keep holding the button down. After 5 seconds continuous hold, the light will come back on and the unwanted power setting will be gone. The light will come back in the power that is next on the active list.
- NB: while it is very easy to skip a single power setting, skipping several and keeping track of the power settings that remain is more difficult. It is recommended that you sit in a quiet location so that you can concentrate. Write out a list with all 8 power settings on. Cross off the power settings as you deactivate them.
- If you use the 5-second hold to skip the last remaining power setting, the whole list will return and you can start over again.
- Visit the NiteFlux website for a video that shows how to edit the power menu. Find it on the Red Zone product page in the instruction manual tab.

All 2021 models use constant power regulation							
	Power (rz8)	Light output	Runtime		Power (rz4)	Light output	Runtime
8	Solid 2W	125 lm	4 hrs		Solid 1W	64 lm	8 hrs
7	Solid 1W	64 lm	8 hrs		Solid 0.5W	32 lm	16 hrs
6	Solid 0.5W	32 lm	16 hrs		Solid 0.25W	16 lm	32 hrs
5	Flash 8W	500 lm	4 hrs		Flash 4W	250 lm	8 hrs
4	Flash 6W	375 lm	6 hrs		Flash 3W	185 lm	12 hrs
3	Flash 4W	250 lm	8 hrs		Flash 2W	125 lm	16 hrs
2	Flash 2W	125 lm	16 hrs		Flash 1W	64 lm	32 hrs
1	Flash 0.25W	16 lm	100+hrs		Flash 0.25W	16 lm	100+hrs
	Recharge		6hrs		Recharge		6hrs

Settings lock:

If you have kids around that fiddle with your stuff, or perhaps if you are the manager of a fleet of cycles and want to set up and keep the settings from being changed, you can use the settings lock function. When the lock is set, neither the power settings, nor the flashing settings can be changed.

- Start with light turned off, charger unplugged.
- Hold the button down before connecting the charger. Keep hold until the charger is connected. Release the button once the charger is connected.
 - A distinctive fast, repetitive flashing pattern in the orange-green charge light indicates the lock is set. The flashing will expire after 30 seconds, but the lock is stored in memory.
- To remove the lock, start with light turned off, unplugged, then repeat as above.
 - Observe normal charge light function to verify the lock is removed.

Flashing patterns

- The Red Zone ships with a strident quadruple flashing pattern by default. This is certainly eye catching but some users will have other preferences. The user can choose from 8 different flashing patterns, including a range of tame single flash options so there is sure to be one that suits people that are sensitive to bright flashing lights. NB: not all flash patterns yield the same runtimes.
- To enter the flash selection menu, first switch the light to flashing mode.
- Turn the light off. Turn on and off again quickly. Just holding your finger on the button for 1 second is the easiest way to do this. Repeat 5 times.
- Now turn on and use normal button clicks to scroll through the 8 different options. When the light is turned off again, the changes are stored in memory.
- You can repeat the process at any time.
- Visit the NiteFlux website for a video that shows how to edit the flashing pattern menu. Find it on the Red Zone product page in the instruction manual tab.
- Note the video on our site was produced in 2011 but is still valid. When using the 2019 version (with runtime indicator after turn-off), be sure to wait for the flashes to stop before turning on again.

Low Battery Indicator

- When the battery voltage gets lower, the flash pattern will change from the default quadruple flash (or whatever option the user has selected) to a brief single flash. The power will also revert to a low setting. The battery should be recharged as soon as convenient. If the light is in a solid mode, then it will begin to blink and will blink more frequently as the battery voltage gets lower.
- If the battery voltage gets very low, the light will shut off.
- NB: it is recommended to avoid relying on low battery indicators for cue to recharge. There can be considerable variation in the length of warning that this basic system gives, depending on the age of the battery, and the ambient temperature conditions. It is recommended to recharge regularly and avoid running out of charge while out riding.

Runtime indicator

- 1 - 4 soft flashes immediately after turn-on, and after turn-off indicate remaining runtime as a fraction of full charge
 - 4 flashes: between full and $\frac{3}{4}$ full.
 - 3 flashes: between $\frac{3}{4}$ and $\frac{1}{2}$ full
 - 2 flashes: between $\frac{1}{2}$ and $\frac{1}{4}$ full.
 - 1 flash: between $\frac{1}{4}$ full and empty. Recommend recharge when convenient.
- If the battery ever gets to the low battery indicator, the nominal runtime is re-recorded. Thus the runtime indicator adapts to changed runtime over the life of the product.
- Runtime indicator does not work until first complete charge. Charge before first use.
- Indicator level resets to 4 flashes on full charge, once green charge light is showing for one second at a time or more.
- Partial/incomplete charge locks indicator to just one flash. Complete recharge to unlock.

Attachments

The Red Zone produces a strong light, across a very wide angle. This simplifies mounting issues as there is no need to be concerned with precise alignment. Generally, any position that leaves the light facing approximately rearwards will be effective.

Seat Post:

Attach two Velcro dots to seat post and hook pads to light casing. A simple Velcro strap secures to the seat post. Use scissors to remove excess strap length so it won't snag on your pants. Mount with charger cap upwards and switch downwards.



Saddle Bag and backpack loops:

Saddle bag is a popular location, especially on bikes where the seat post is very short. When mounted on a backpack, you can carry with you. Saves time removing when you park the bike in public spaces.

Use a releasable cable tie; through the loop on your bag and around the red zone tube. This system is simple and very secure. NiteFlux supplies a couple of these releasable ties with the kit but they are also available at our website or electronics stores.



Helmet

Helmet mounting is a popular way to get the light up high and visible above some surrounding vehicles in traffic. It is also a popular choice for people that ride many different bikes but wear just one helmet. It is also a very aero-dynamic position.

Use a releasable cable tie and secure to the occipital strap. Very comfortable and won't interfere with the balance of the helmet when wearing, or during crash.

There is no need to remove the light for charging, just remove the end cap and charge in-situ.



Other locations

Because the end cap quickly and easily removes for charging, it is possible to make more permanent attachment to bags, or other bike parts with non-releasable cable ties or other methods. So long as the end cap is removable, and your charge cable is long enough, you may recharge the light in place.

Quick release clips

NiteFlux has sold thousands of red zone lights without quick release clips over the years. In 2021, NiteFlux produces and sells a comprehensive range of quick release clips on our website. Details on the site include interactive 3D models to view exactly how parts relate.

Saddle rail clip	GoPro clip	Aero tube clip
		
Round tube clip	Panel mount clip	Belt clip
		
Strap clip		
		

Warranty

- NiteFlux will, at their discretion, repair or replace the product, or any necessary component part if it is found to be defective in materials or workmanship within one year of purchase.
- Extended warranty options are available, up to three years total. Visit the NiteFlux website to add extended warranty within 30 days of purchase.
- Any claim for warranty must be made via the NiteFlux website. Visit the service page and follow the necessary instructions. Add the warranty item to your cart (\$0) and check out. You will receive an email with your order number, which will act as your return authority number (RA#). This RA# must be written on the outside of the package when returned.