

# HALCYON

## Flare™ and Focus™



OWNER'S MANUAL





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# HALCYON FLARE™ AND FOCUS™ OWNER'S MANUAL

## Trademark Notice

Halcyon™ and Flare™ and Focus™ are registered trademarks of Halcyon Manufacturing, Inc. Halcyon trademarks and pending patents include: Multifunction Compensator™, Cinch™, Pioneer™, Pioneer 30 Traveler™, Eclipse™ wings, Explorer™ wings, Evolve™ wings, BC Storage Pak™, Active Control, Ballast™, Diver's Life Raft™, Surf Shuttle™, No-Lock Connector™, Helios™ lighting system, Proteus™ lighting system, Apollo™ lighting system, Scout Light™, Pathfinder™ reels, Defender™ spools, and RB80™ rebreather.

## WARNINGS, CAUTIONS, AND NOTES

Pay special attention to information provided in warnings, cautions, and notes accompanied by these icons:



**A WARNING indicates a procedure or situation that, if not avoided, could result in serious injury or death to the user.**



**A CAUTION indicates any situation or technique that could cause damage to the product and could subsequently result in injury to the user.**

**WARNING:** This manual provides essential instructions for the proper fitting, adjustment, inspection, and care of your new Flare™ and Focus™ Light. It is very important to take the time to read these instructions in order to understand and fully enjoy the features that are unique to your specific model. Improper use of your light could result in serious injury or death.

## Copyright Notice

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## CONTACTING HALCYON

Halcyon Manufacturing  
1110 S. Main Street  
High Springs, FL 32643 USA  
386.454.0811  
800.Halcyon  
386.454.0815 (fax)  
info@Halcyon.net  
www.Halcyon.net

## HALCYON FLARE™ AND FOCUS™ COMPONENTS

### About This Manual

This manual is designed to familiarize you with some of the unique features of the Halcyon Flare™ and Focus™ lights. If you purchased your light with a NiMH battery, please see the Halcyon Explorer/EOS/Apollo owner's manual for information about this battery and cannister.



### OVERVIEW

Thank you for purchasing the Halcyon Flare™ or Focus™ primary light. These lights represent a new age in the evolution of LED primary lights. Powered by a unique LUX engine, these new Halcyon lights use two reflectors and a Fresnel lens to provide full-focus adjustability with amazing output and greatly reduced power consumption. These lights produce about twice the output of a 21 watt HID while drawing less than half the power. At half power, consumption drops to only 15% of its predecessor.

Halcyon applies this novel LUX engine in two unique products. The Halcyon Flare™ is a fixed-focus beam in a compact housing. The Halcyon Focus™ has a fully adjustable beam, allowing divers to switch between intense focus and wide flood, suitable for use by a model while shooting underwater video.

Both Flare™ and Focus™ have three sealed compartments, isolating the LED core, the driver, and the cable gland. High performance capacity is further augmented by a fully-adjustable handle, which can be set for left or right hand operation. These unique features are powered by a small but powerful battery capable of providing more than five hours longevity on full power. Given the robust design and amazing performance it is hard to believe this unique lighting package weighs less than three pounds (2.95lb/1.3kg), making an excellent travel and all-purpose diving light.

### Power Switch

Your Halcyon Flare™ and Focus™ possess a magnetic switch which can be easily moved between off, half, and full power. In order to move the switch you must rotate the small locking screw in the counterclockwise direction. Move the switch to the desired position and lock in place by turning clockwise. The lock screw can be completely removed for cleaning, but you should be careful not to do so accidentally.



**CAUTION:** Do not over tighten the lock screw on your power switch. Also, be careful not to accidentally turn too far in the counterclockwise direction while underwater.

## Adjustable Handle

Halcyon's unique adjustable handle allows divers to quickly set height and width without tools and to readjust before, after, or during the dive. The handle also swivels forward to reduce size and protect the front lens. In order to rotate or adjust the handle height, loosen the winding knob on the side and place the handle in the desired position. Width can be set by gently expanding the sliding part of the handle. This width adjustment is provided by two friction screws in the handle. These should allow easy movement of the handle. The handle may be quickly adjusted for either hand by loosening the winding knob and rotating to the opposite side. You can change the location of the thumb support by removing the attachment plate and rotating the entire handle assembly.



## Attachment Points

There are two main attachment points on your Halcyon Flare™/Focus™. You can attach a bolt snap to the slot at the top of the handle adjustment. You may also attach a bolt snap or temporary attachment to the rear of the light head.

## Focus™ Knob

The Halcyon Focus™ allows a full range of adjustability. Turning the adjustment knob clockwise provides a tighter beam. As the focus becomes near the maximum you will note a progressively square beam pattern. At full focus you will actually be able to see the LED diode. You have reached the maximum possible focus. Turn counter clockwise to expand the beam into a flood which is an excellent way to see greater detail in your surroundings and/or provide good video lighting support.



## Battery Pack

The tiny footprint of the Halcyon battery pack is matched by ease of use and convenient modularity. This small pack is constructed from a solid piece of Delrin and runs at full power for more than five hours; half power extends use to an amazing 15 hours. You can also change batteries in the field by rotating the battery counterclockwise and removing the battery from the tether. You should ensure the O-rings are clean and lubricated to enhance easy installation/removal of the battery pack. This same battery can be used with the EOS Mini, and you can use

the half pack size with your Flare™ or Focus™ light. Divers that purchased the NiMH 9 amp or 13 amp batteries should refer to the Halcyon Explorer™/EOS™/Apollo™ Lighting Manual.



**CAUTION: The battery must be seated in the base of the tether. Gently turn the battery clockwise until it stops. Do not over tighten!**

You can disengage the power pack for travel by turning it counter clockwise until the battery no longer makes contact inside the tether. Test this position by activating the light and verifying no power is being supplied to the cord. Divers using E/O cords (underwater pluggable) must remember this cord is supplied with power when disconnected underwater unless you take the above steps to disengage the power supply.



**WARNING: Do not leave the power on while exposing an unplugged E/O cord underwater. It will damage the electrical contacts.**

## Battery Charging

You may charge your battery by turning it counterclockwise and removing it from the tether base. Then gently screw the battery into the table charger. The wall plug will glow green when first supplied with power and red while charging. When the charge is complete the wall plug will glow green. Plugging the battery into the charger base will activate the green light (by supplying power). You must ensure the wall outlet is receiving power in order to charge the battery.



**CAUTION: Do not leave the battery in the charger base for extended periods while disconnected from a power source, as this will drain the battery.**

## Light and Battery Operation

Your Halcyon Flare™/Focus™ light is designed with the highest quality LED diodes and carefully optimized to produce the optimal blend between high light output and low energy consumption. The LED diodes are placed within a robust aluminum housing which is designed to keep the lights cool and well protected. These lights will burn remarkably brightly for very long periods. This runtime is naturally affected by the energy density of the battery and



the intensity of light output. The Flare™ and Focus™ lights both maintain two power settings. The low power setting is extremely efficient, burning only about a third of one amp or roughly 10% of a typical HID bulb. The high power setting draws less than one amp, or less than half a typical HID bulb, while producing more light output.

Halcyon Focus™		Halcyon Flare™	
<b>Weight</b>			
Light Head	1.3lb/.59kg	Light Head	1.2lb/.54kg
Complete Light	2.95lb/1.3kg	Complete Light	2.94lb/1.3kg
<b>High-Power Setting</b>			
<b>Lux Output</b>			
1 meter	39,300	1 meter	11,500
3 meters	4,100	3 meters	1,700
5 meters	1,550	5 meters	650
<b>Runtime</b>			
5amp LiOn	300+ min	5amp LiOn	300+ min
9amp NiMH	600+ min	9amp NiMH	500+ min
13amp NiMH	900+ min	13amp NiMH	800+ min
<b>Low-Power Setting</b>			
<b>Lux Output</b>			
1 meter	17,600	1 meter	5,900
3 meters	1,900	3 meters	750
5 meters	730	5 meters	350
<b>Runtime</b>			
5amp LiOn	900+min	5amp LiOn	900+ min
9amp NiMH	1,300+ min	9amp NiMH	1,500+ min
13amp NiMH	2,000+ min	13amp NiMH	2,000+ min

## Operational Limits

When the battery capacity runs low your Halcyon Flare™/Focus™ lights will automatically switch to low light output to insure additional operational time. This switch occurs around 9.8 volts. The lights will automatically shut off when they reach 9 volts. The Halcyon Flare™/Focus™ lights also maintain a protection against overheating and will shut down when internal temperatures exceed operationally safe parameters. The light will operate again when the temperature returns to a safe range. The Halcyon Flare™/Focus™ design has been tested for watertight integrity to a depth of 300m.



**WARNING: You should not operate your Flare™/Focus™ out of the water for extended periods, as this will build excess heat and potentially damage your light.**



### Traveling with your Flare™/Focus™

During travel you should loosen the battery from the tether base so the light can't be ignited accidentally. The light is very robust but care should be taken during transport by packing in a way that protects the light from shock or excess abuse. The Flare™/Focus™ battery meets all current flying requirements regarding lithium content. The complete light also weighs less than 3 pounds (2.95lb/1.3kg) making it a breeze to carry or check for all your diving trips.

### Care and Maintenance

- Your Flare™/Focus™ light is extremely resilient but should be treated with care in order to ensure maximum lifespan.
- You should not run this light out of the water for any extended period.
- You should clean your light with fresh water after each dive, and keep it clean.
- Keep O-rings free of dirt and lightly lubricated.
- Do not try to open the light head or battery pack. This will void your warranty.

### Troubleshooting:

**1. My light doesn't turn on.**

Ensure the battery is fully screwed into the tether base and verify the battery is fully charged.

**2. My battery doesn't seem to have a full charge.**

Ensure the charger is operating by first plugging into a power source. You should see a green light on the wall plug. Then screw the battery into the charger base. If the battery is discharged then you should see a red light which shows until charged before changing to green. If the battery is discharged and the light remains green then your charger should be evaluated by a Halcyon repair technician.

**3. My Focus™ knob feels loose or the focus seems off.**

Verify the set screw on the knob is secure. The focus beam can be reset by adjusting the location of this knob relative to the winding spindle.

## APPENDIX

### Warranty Information

All warranty requests must be accompanied by proof of original purchase from an Authorized Halcyon Dealer. Be sure to save your sales receipt, and present it whenever returning your Flare™/Focus™ for warranty service. Halcyon warrants, to the original purchaser only, that the Halcyon Flare™/Focus™ will be free of defects in materials and/or craftsmanship under normal diving use for one year from the date of purchase, provided proper care is performed on all materials as described within this manual. Should your Halcyon Flare™/Focus™ prove to be defective for any reason (other than those listed in the limitations section below) it will be repaired or replaced (at Halcyon's discretion) free of charge excluding shipping and handling charges. All correspondence concerning this warranty must be accompanied by a copy of the original sales receipt. Repair or replacement is Halcyon's only responsibility and your only remedy under this warranty.



**WARNING: It is dangerous for untrained and uncertified persons to use the equipment covered by this warranty. Therefore, use of these products by an untrained person renders any and all warranties null and void. Use of SCUBA equipment by anyone who is not a certified diver, or who is not receiving training through a recognized certification agency, shall render void all warranties, expressed or implied.**

ALL WARRANTIES, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE LIMITED IN DURATION TO A PERIOD ENDING ONE YEAR FROM THE DATE OF PURCHASE. Some states in the U.S. and certain foreign countries do not allow limitations on the duration of implied warranties, so this may not apply to you. This warranty gives you specific legal rights. You may have rights that vary from state to state and country to country.

HALCYON MANUFACTURING DISCLAIMS AND EXCLUDES ANY LIABILITY FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES. SOME STATES IN THE U.S. AND CERTAIN FOREIGN COUNTRIES DO NOT ALLOW EXCLUSIONS OR LIMITATIONS OF LIABILITY FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THIS MAY NOT APPLY TO YOU.

#### The following restrictions apply to this warranty.

1. This warranty extends to the charger and all light parts.
2. This warranty does not extend to damages caused by improper use, improper maintenance, neglect, unauthorized repairs, modifications, accidents, fire, or casualty.
3. Cosmetic damage, such as scratches, fraying, and nicks are not covered by this warranty.
4. This warranty does not extend to equipment used for rental, commercial, governmental, or military purposes.
5. This warranty covers products purchased in the United States. For warranties that may apply elsewhere, please contact your local representative.
6. Failure to meet any of the above requirements will render the warranty null and void.



Halcyon Dive Systems  
1110 S. Main St.  
High Springs, FL 32643 USA  
386.454.0811 1 800 HALCYON  
info@halcyon.net  
www.halcyon.net

