

RADIANT™ WIRED HEADLIGHT

RADSYSM6



Instructions for Use

Q-Optics

Your Radiant™ Wired Headlight System Contains:

Battery Pack



RADBL26

Power Supply



Extra Cable



Light Cap



Shirt Clip



Headlight
and Cable



RADHUM6

Headlight
Cable Guide



Anti-Curing Filter

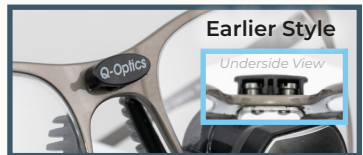


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Radiant™ Wired Headlights mount easily via the quick-disconnect mount enabling use with nearly all brands or styles of loupes.



If purchased in 2024 or beyond, your frame will have a "fixed" Q-Optics nameplate which will serve as the headlight mount.



2023 and earlier frame styles have a "screw style" mount in which you will slide the Q-Optics badge up and off to mount the headlight.

1



Align the headlight channel mount opening to the Q-Optics logo badge (2024 and later frames) or mounting screws (2023 and earlier frame models) on the frame of the loupes.

Slide the headlight on until fully seated in place on frame mount.

Slide off in the opposite direction to remove headlight when cleaning your loupes.

2

Properly orient the headlight cable to connect it to the back of the headlight.



Connect headlight cable to the top of the battery pack and you're ready to work.



3

WARNING
Headlight heats up during use.
Touch with caution.



If you have purchased a Q-Optics headlight for use with another manufacturer's loupes, you will first need to attach the included adapter prior to mounting your headlight.

GETTING STARTED

2

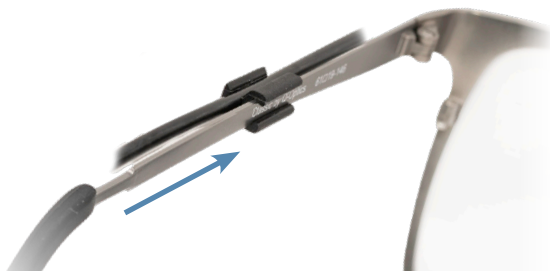


Anti-Curing Filter

1. Align the filter with front of headlight
2. Press filter onto front of headlight
3. Flip the lens filter upward when necessary

Anti-curing: use included filter to prevent fast curing of composite material

Headlight Cable Guide



Slide back the rubber tip of one temple arm. Move the Cable Guide from the smaller section of the temple arm forward until it can glide no further. The headlight cable can be pressed into the open, upward facing channel. Re-seat the rubber temple tip in place.



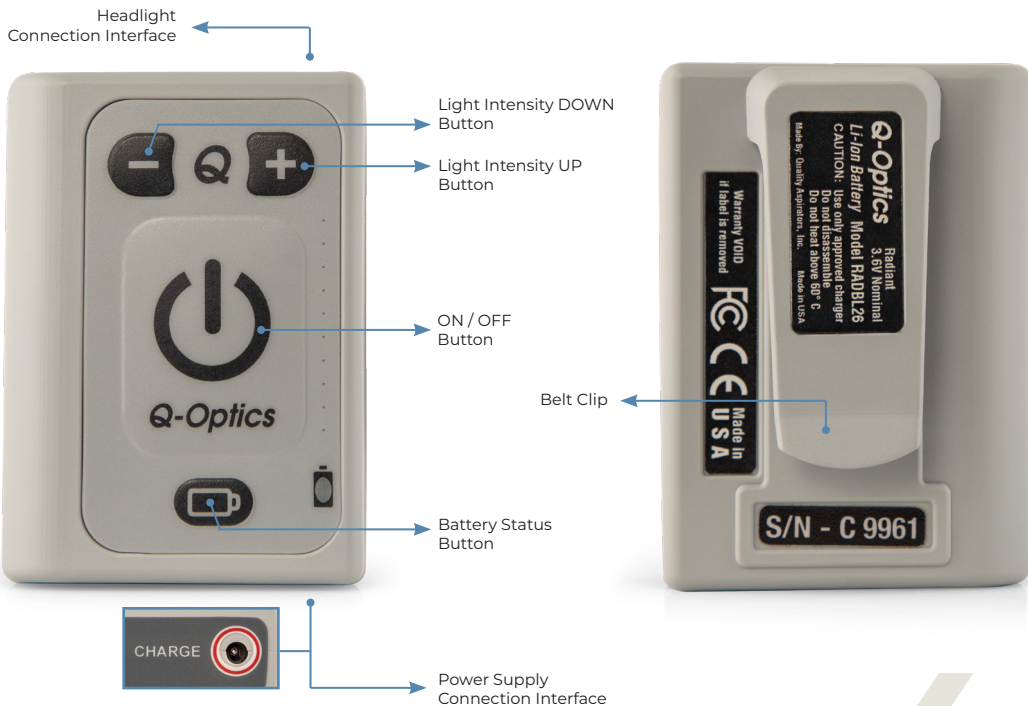
Shirt Clip

Attach the shirt clip around the headlight cable and snap to secure. Connect the clip to the desired position on your clothing to keep your cable free from your work area.

3

HEADLIGHT ACCESSORIES

The Q-Optics Radiant™ Wired Headlight System is an adjustable LED light featuring an ergonomic and easy to understand control interface on the battery pack.



BATTERY FEATURES

4

Operating the system is simple and intuitive. A quick press of the central power button will turn your system on and off. Increasing or decreasing the light intensity will also be accompanied by a visual LED display of the current light level (1-10).



POWER - On / Off Button

Press will turn on or off the headlight and will indicate battery charge level. (See page 6.)



Battery Status Button

Pressing Battery Status Button will illuminate Battery Status LED to indicate battery charge level. **GREEN** LED denotes charge is full enough to run battery. **RED** implies battery needs charging and may not run. (See page 6.)



Decrease Intensity

10 light levels of intensity, LED display indicates current light level when pressed. Also powers on the battery if currently off, and will adjust light to next lowest setting from previous.



Increase Intensity

10 light levels of intensity, LED display indicates current light level when pressed. Also powers on the battery if currently off, and will adjust light to next highest setting from previous.



WARNINGS

- Do not disassemble battery pack
- Do not dispose of battery pack in fire
- Do not heat battery pack above 60° Celsius (140° Fahrenheit)

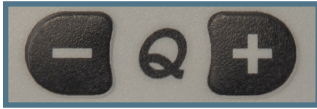
Suggestions to prolong battery life:

- Lower intensity settings result in longer battery life
- Longterm battery life is optimized when charging fully overnight once the battery charge level is between 3 and 7

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USING THE BATTERY PACK

Changing your headlight intensity



Your headlight has 10 intensity settings. Pressing the minus symbol will decrease intensity while plus will increase it.

Headlight Intensity Indicator

When selecting your light level with the plus or minus buttons, it will not only reflect in the physical light emission, but will also be indicated by one single light in the LED pips along the side of the battery (whichever level the intensity is at).

Low Battery Warning

If the headlight is on it will alternate in intensity from bright to dim momentarily four or five times to indicate a critical battery with a need to charge immediately. The Battery Status LED will flash red every four seconds to indicate a critical battery level.

Checking your remaining battery charge



Your battery will allow you display the remaining battery life charge remaining by pressing the Battery Status button on the front of your pack.

Battery Status Indicator

When selecting the Battery Status button, it will quickly display a flash of the Battery Status LED (indicating either RED for critical battery level or GREEN for good working battery level) in addition to the level of charge displayed in the sequence of LED pips along the side of the battery.



Additionally, you will see the battery charge level when pressing the power button on or off, as well as when you plug in the the battery to recharge.

1

Plug the power supply into the charging port located in the bottom of the battery pack.



2

Plug power supply into electrical outlet.



3

Battery Status LED will flash RED for up to 10 seconds after initially plugging the battery pack in while it assesses the charge level required.

Battery Status LED will then change to solid RED to indicate the battery is charging. LED pips above the Battery Status LED will be steadily illuminated in GREEN indicating a full charge to that level. The topmost LED pip will flash to indicate the current level being charged. When battery is charged completely, Battery Status LED will turn GREEN and Battery Level LED pips will be steadily illuminated (no flashing).



Charging



Fully Charged

If your battery pack is fully discharged, Battery Status LED will flash RED and will not power the headlight on. If it is depleted to a critical level, no Battery Status LED at all will illuminate. Charge slightly to enable Battery Status / Level indicator lights to function again.

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CHARGING THE BATTERY PACK

The Q-Optics Radiant™ Wired Headlight is a fine optical instrument and should be treated with care. Adhering to proper maintenance care will help avoid damage.

- Do not submerge or rinse headlight or battery in water or any type of sterilization fluid. Headlight and battery are not waterproof and should not be washed or submerged in water.
- Basic cleaning may be done with a clean dry microfiber cloth or by spraying the cloth lightly with Q-Optics optical lens cleaner. Use a light pressure with circular motion to clean or dry the headlight lens.
DO NOT SPRAY HEADLIGHT OR BATTERY DIRECTLY.
- It is OK to disinfect headlight and battery using moist Cavi-Wipes, not dripping with solution. Squeeze out excess liquid, then wipe headlight and cable.
- Do not autoclave or chemiclave (or other sterilization procedure) headlight, cables, or battery.
- Do not use solvents or cleaning solutions other than those listed above on the headlight or battery pack.



Headlight and battery are **NOT WATERPROOF!**

Remove headlight before washing loupes!



Prevent liquid cleaning or disinfecting solutions from entering into open electrical areas on the headlight and battery pack.

Damage may occur.



Disposal Instructions

- Do not throw headlight, battery pack, or charger in trash
- Contact your local authorities for disposal or return to Q-Optics for free disposal

CLEANING AND CARE

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TECHNICAL DATA

Light Intensity	Up to 4352 FootCandles
Color Temperature	5700K
Color Rendering Index (CRI)	90 CRI
Operation Mode	Continuous
Headlight Weight	5.61 grams
Battery Weight	184 grams
Battery Run Time	Low Intensity ≈ 40+ hours Medium Intensity ≈ 15-16 hours High Intensity ≈ 8+ hours
Battery Type	Li-Ion Battery, 3.6 V
Operating, Storage, and Charging Environment	Temp: 32° to 95° F (0° to 35° C) Humidity: 10% - 95% non-condensing
Battery Charge Time	6.5 hours (empty to full)

WARRANTY

Q-Optics / Quality Aspirators (the "Company") guarantees that the Product will be free from defects in material, construction, and design from the time of first purchase.

Defective units will be repaired or replaced by Quality Aspirators or its authorized representative. Quality Aspirators has the sole and final decision in determining if a unit is defective or whether the unit will be repaired or replaced with similar equipment. Product that is repaired or replaced by Quality Aspirators do not receive an extended warranty.

Wired headlights and their accompanying battery are covered under a 24 month warranty. Headlight cables are considered consumable and are not covered under warranty. Service for liquid damage to headlights and batteries is not covered and will void warranty. Manual instructions and warnings must be observed at all times.

If the Company determines that the Product (or its parts) are defective and covered under this warranty, the Company will, in its sole discretion, either (i) have the defective Product or part(s) repaired by the Company or its authorized representative, or (ii) replace the defective Product or part(s) with a new or refurbished Product or part(s).

SERVICING REQUIREMENTS

FULL WARRANTY <https://q-optics.com/support/warranty/>

Lithium Ion batteries are considered an expendable part and are not considered defective by simply exhibiting diminished capacity. They have an estimated life of approximately 2 years, in which they will be at 80% capacity and will begin to lose additional capacity more rapidly thereafter.

Some best practices can be taken in order to preserve this expected longevity. Avoid charging your battery in short bursts. Try to not charge until your battery level is 7 LED pips or below, then fully charge your battery.

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Product specifications are subject to change at any time without prior notice.

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