



PORTABLE FOUR-WAVELENGTH SYSTEM

NrG-SPARK

User Manual

Portable control. Targeted light. Simple setup.

630 nm

660 nm

810 nm

830 nm

12 high-power dual-chip LED lenses

USB-C rechargeable | Rubber rear hand grip

Read manual before first use. Refer to manual for operation, safety, care, troubleshooting, and warranty reference.



Start here.

Spark is a compact rechargeable device designed for targeted red and near-infrared light sessions. Begin conservatively and change only one session variable at a time.

CONSERVATIVE FIRST SESSION

Try 5 minutes at 25% or 50% brightness from about 6-12 inches away. Use continuous output (NULL) for the first session.

- 1

Charge

Charge fully, then disconnect the USB-C cable before use.
- 2

Position

Secure Spark in your hand with the rear grip band and aim the LED face from about 6-12 inches away.
- 3

Select mode

Choose Red, NIR, or combined Red + NIR using the indicator lamps.
- 4

Set output

Choose 5 minutes, 25% or 50% brightness, and NULL/continuous output.
- 5

Start and assess

Start the session. Stop if you feel discomfort or excessive warmth.

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Important safety.

STOP USE IMMEDIATELY

Stop if you experience pain, burning, persistent redness, dizziness, headache, visual discomfort, or any unexpected reaction.

Eyes and sensitivity

- Do not stare directly into illuminated LEDs.
- Use appropriate eye protection whenever the eyes could be exposed.
- Do not use pulsed light if you are sensitive to flashing light unless a qualified clinician has approved it.

Health considerations

- Ask a qualified clinician before use if you are pregnant, photosensitive, taking photosensitizing medication, or have a serious medical condition.
- Do not use over an area of known or suspected cancer without medical direction.
- This product supports general wellness and is not a substitute for diagnosis or medical care.

Electrical and battery

- Dry indoor use only. Keep away from water, steam, condensation, saunas, and open flame.
- Charge only from a compatible 5 V / 2.0 A USB source. Do not use while charging.
- Stop using a device that is dropped, wet, unusually hot, swollen, cracked, or otherwise damaged.

Handling and ventilation

- Keep ventilation openings clear. Do not cover the device during use or charging.
- Maintain a secure grip. Do not balance or prop Spark where it could slide, tip, or fall.
- Keep out of reach of children. Children require responsible adult supervision and medical guidance.

Know and position your Spark.

Spark combines 12 high-power dual-chip LED lenses, on-device controls, rechargeable power, and a rubber rear hand grip.

Front

- 1 12 high-power dual-chip LED lenses**
Targeted light output in a compact array.
- 2 Digital display**
Shows the active session time or pulse value.
- 3 Four-button control panel**
Mode, pulse, brightness, and power/timer.
- 4 Mode indicators**
R and NIR lamps show the selected channel group.



Rear grip, USB-C charging, and positioning



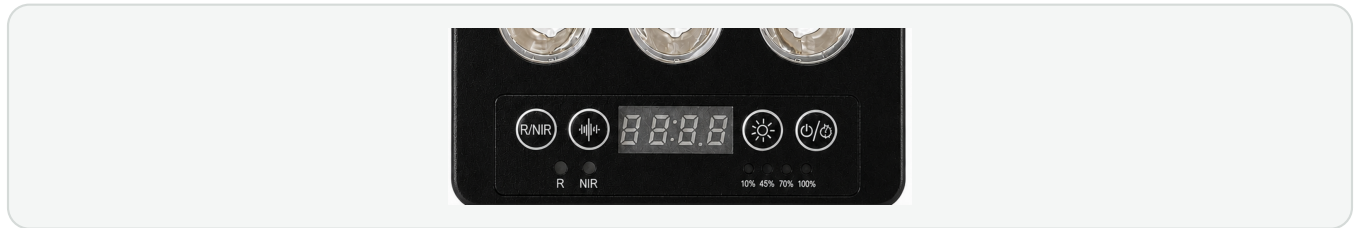
Slide your hand under the rear band and maintain a firm grip. Support Spark with the other hand while adjusting controls. Keep the side ventilation openings clear.

Start about 6-12 inches away

Record distance, mode, brightness, pulse, and time. Adjust only one variable at a time.

Controls and wavelength modes.

Use the display and R / NIR indicator lamps to confirm each selection.



R/NIR Mode Adjustment Button

1

Press to cycle Red + NIR, Red only, and NIR only. The R and NIR indicator lamps show the active mode. To lock or unlock the buttons, press and hold for approximately 2.5 seconds.



Pulse Button

2

Press to cycle continuous output (NULL) and the available pulse presets up to 9999 Hz. Select NULL for continuous light.



Brightness Adjustment Button

3

Press to cycle 25% -> 50% -> 75% -> 100%. The four indicator lamps below the button show the selected level.



Power/Timer Button

4

Tap to start or pause. The default session is 10 minutes. Press and hold for about 3 seconds to change the displayed time.

Wavelength modes

RED

630 + 660 nm

Two visible red channels.

NIR

810 + 830 nm

Two near-infrared channels.

RED + NIR

All four wavelengths

Runs both channel groups.

Both lamps on = Red + NIR. R only = Red. NIR only = NIR.

Charging, cleaning and storage.

USB-C CHARGING - 5 V / 2.0 A

Power off, connect the USB-C cable without forcing it, and charge on a hard, dry, ventilated surface. Disconnect the cable before operating Spark.

Do not use fast-charge voltages above 5 V. Do not cover Spark or charge it on bedding, upholstery, or other soft surfaces. Stop charging if the device, cable, or connector becomes damaged or unusually hot.

CLEAN

- Power off and disconnect the cable.
- Wipe the housing and lenses with a soft, dry microfiber cloth.
- For stubborn marks, use a barely damp cloth, then dry immediately.
- Do not spray liquid directly onto Spark or use abrasives or solvents.

STORE

- Store indoors, dry, and away from direct sun or excessive heat.
- Protect the controls, USB-C port, and rear grip band from impact or strain.
- Do not leave the battery completely discharged for long periods.
- Recharge periodically during extended storage.

TRAVEL

- Power off before packing and use protective padding.
- Prevent the controls from being pressed in transit.
- Check current airline rules for carrying lithium-battery devices.
- Do not pack or travel with a damaged, swollen, or unusually hot device.

Troubleshooting.

NIR VISIBILITY

Near-infrared LEDs can appear dim or completely dark to the eye even while operating normally. Do not diagnose an NIR channel as failed based only on visible brightness.

Spark will not turn on	Charge the battery, disconnect the cable, then press Power/Timer. Try another known-good 5 V / 2.0 A source and cable if charging does not begin.
Display is on but no light is emitted	Confirm the session is started rather than paused. Cycle R/NIR, confirm an indicator is active, and verify brightness is selected.
Session ends earlier than expected	Check the displayed timer and battery charge. Recharge before the next session if the battery is low.
Controls do not respond	Press and hold the R/NIR Mode Adjustment Button for approximately 2.5 seconds to unlock the buttons. If the controls still do not respond, power off, wait 30 seconds, and restart.
Device becomes unusually hot	Stop, power off, and allow Spark to cool in an open area. Clear the vents. Contact support if overheating repeats.
Charging is intermittent	Inspect the USB-C port and cable for damage or debris. Do not force the connector. Try a compatible cable and 5 V / 2.0 A source.

If the issue continues, stop using Spark and email info@nrglight.com. Include order details, the model and serial information from the rear product label, and a photo or short video.

Specifications, warranty and support.

Wavelengths	630 / 660 / 810 / 830 nm
LED architecture	12 high-power dual-chip LED lenses
Spectrometer irradiance	55.643 mW/cm ² at 3 in OHSP-350IR
Solar meter irradiance	1046 W/m ² at 3 in 104.6 mW/cm ² converted
Brightness	25% / 50% / 75% / 100%
Pulse	Continuous (NULL) and presets up to 9999 Hz
Timer	10-minute default; adjustable
Battery	10,000 mAh rechargeable lithium battery
Charging input	USB-C, 5 V / 2.0 A
Dimensions	150 x 95 x 23 mm 5.91 x 3.74 x 0.91 in
Weight	0.45 kg 0.99 lb
Hand grip	Rubber rear grip band
Warranty	1-year limited warranty

Both readings were taken at 3 in. Conversion: 1 W/m² = 0.1 mW/cm²; 1046 W/m² = 104.6 mW/cm².

1-YEAR LIMITED WARRANTY

Coverage begins on the original purchase date and applies to the original purchaser, subject to the complete warranty terms at nrglight.com/warranty. Misuse, liquid intrusion, sauna use, impact damage, unauthorized repair, and incorrect charging are not covered.

PRODUCT RECORD

Model: NRG-SPARK

Serial / lot: _____

Purchase date: _____

Order number: _____

Model and serial information are located on the rear product label.

Support: info@nrglight.com | nrglight.com/support