Roving Blue® Ozo-Pen®
Users Manual - 2025 and Newer

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READ, FOLLOW AND SAVE THESE INSTRUCTIONS. **THERE ARE NO USER-SERVICEABLE PARTS.** EXPOSING PARTS IN THE PEN WILL VOID YOUR WARRANTY. INTERNAL PARTS SHOULD NOT BE EXPOSED OR TAMPERED WITH. DO NOT USE IN ANY

Introduction
Welcome to the Roving Blue® Ozo-Pen® User Guide. This manual is designed to assist you in the operation and maintenance of your device. Please read it carefully and completely before use. Failure to follow these instructions may result in personal injury, equipment damage, or reduced product performance.

Roving Blue®, Inc. continually works to improve product reliability and efficiency. As a result, some information in this guide may not align with earlier versions. If you have any questions or need support, please contact the Roving Blue® service department.

Intended Use: The Ozo-Pen® is designed to make drinking water safer by infusing clear water sources—such as tap water, rainwater, or water from clear lakes and streams—with high levels of ozone. Ozone is the most powerful oxidizer that can be safely used in water treatment.* If the water is visibly cloudy with dirt, silt, or algae, it should first be allowed to settle and/or be filtered. For optimal results, we recommend using our FortiFilter™ product. The Ozo-Pen® can also treat water containing tannins (which give a tea-like coloration), rendering it safer to drink, though the coloration may remain.

Warranty Reminder: To activate your warranty, please register your product. If you purchased directly from Roving Blue®, registration is not necessary. Register online at www.rovingblue.com/warranty. The serial number is engraved on the underside of the pen clip. Thank you for choosing Roving Blue®. We are proud to help you ensure safer water, wherever life takes you!

Caution: The Ozo-Pen® is designed for use with clear tap water, clear lake or stream water, or collected rainwater of unknown safety. If water contains debris, filter it through a cloth or coffee filter before treatment. For optimal results, consider using our FortiFilter®. Place the water in a clear plastic or glass container and inspect it carefully. Cloudy water may indicate high bacteria levels. While ozone is highly effective at killing bacteria, the Ozo-Pen® may not generate enough ozone to kill extremely high levels of bacteria. If in doubt, operate the pen repeatedly until you detect the distinct smell of ozone. It is not possible to over-ozonate water, but under-dosing can occur. If you cannot smell ozone, contaminants may be using it up. Repeat the cycle until ozone is detectable.

Be Aware: Infectious microbes can be encountered through various sources, including:
- Foods washed in unsafe water
- Contact with infected people, animals, or objects
- Accidental water ingestion during activities like brushing teeth, showering, or swimming

Opportunities for infection are everywhere. While the Ozo-Pen® is an important precaution, it is not a substitute for taking other necessary precautions to avoid microbial infection. The Ozo-Pen® does not guarantee immunity from illness.

Ongoing Care, Cleaning, and Storage: When not in use, store the Ozo-Pen® charged and in its box. If used only occasionally, charge it every six months to maintain battery health—failure to do so will void the warranty. Avoid exposure to extreme temperatures: Maximum: 140°F (60°C)Minimum: -4°F (-20°C)Keep the black dust cover in place during storage. Clean the pen with a soft cloth and mild soap solution, rinse thoroughly, shake off excess water, and allow it to air dry before replacing the cap. **Periodic Maintenance**: Mineral deposits, such as calcium carbonate, may accumulate on the electrodes over time, slowing the electrolysis process. Clean the electrodes as follows: Prepare a solution of tap water and vinegar (1:1 ratio) or use a cleaner like CLR, following coffee maker dilution instructions. Submerge the electrodes in the solution for several hours or overnight. Do not power ON. Stir the solution occasionally, then rinse the electrodes with cool tap water. For heavy deposits, multiple treatments may be necessary. Proper maintenance ensures optimal performance and years of reliable service. Thank you for choosing the Ozo-Pen®. Follow these guidelines to enjoy years of dependable water purification.

* Water Quality Association, “Ozone for POU, POE and Small Water System Water Treatment Applications,” Lisle, IL 1999

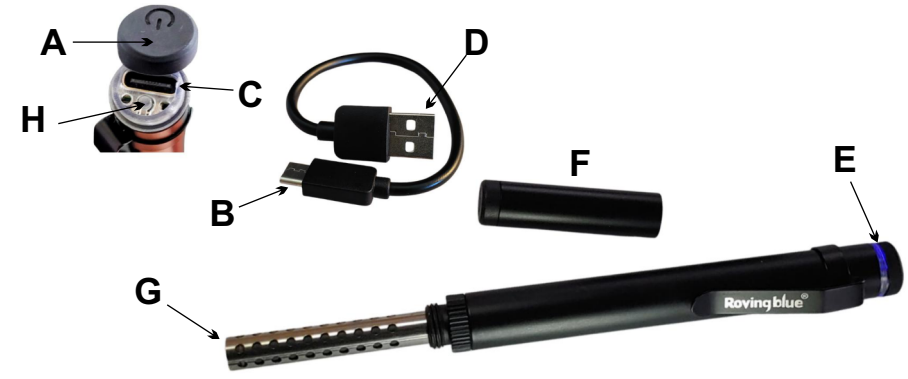
Treatment with Ozone:
Ozone is a proven and widely accepted method for disinfecting drinking water, used by municipal water treatment plants, bottling companies, hospitals, and hotels. In 1997, the FDA approved ozone as an antimicrobial agent for indirect food contact, and in 2002, it was granted GRAS (Generally Regarded as Safe) designation for direct use on food and food contact surfaces. The Organic Foods Production Act (OFPA) also allows aqueous ozone (ozone dissolved in water) for organic crop and livestock production. Ozone applications include microbial disinfection, iron (Fe) and manganese (Mn) reduction, hydrogen sulfide removal, and improvement of taste and odor. It also reduces harmful by-products like trihalomethanes (THMs) and haloacetic acids (HAAs) and effectively treats challenging pathogens like giardia and cryptosporidium. Performance depends on water temperature, chemistry, conductivity, and pH.

Overview: Roving Blue® Ozo-Pen®
The Roving Blue® Ozo-Pen® uses dissolved ozone to make water safer to drink. Ozone (O_3), the most powerful oxidizer safely used in water treatment, is a strong biocide capable of achieving over 99.9% pathogen kill rates.

Before Your First Use:
Before using the Ozo-Pen®, fully charge its lithium-ion battery. Open the soft black dust cap (A) by gently lifting and rotating it. Plug the USB mini plug (B) into the port (C) and connect the USB plug (D) to any 5V power supply. An LED light (E) will indicate the charging status: red for charging, yellow for partially charged, and green for fully charged. Charging takes 5 minutes to 3 hours, depending on the battery's current level. Once charging is complete, disconnect the power cord and close the dust cap.

Use Instructions:
If you are using distilled or reverse osmosis (RO) water, add a pinch of salt to improve conductivity, as very pure water lacks the substances needed for the technology to function. Surface water or unfiltered tap water usually contains sufficient dissolved substances for the Ozo-Pen® to work properly.

To ensure your pen is functioning correctly, operate it at least four times before initial use. During this process, familiarize yourself with the ozone's distinct fresh smell, it's the same as the smell of the air after a thunderstorm, (Nature's ozone!) and observe the cloud of bubbles produced by the electrodes—this is the ozone being generated. At the end of a cycle, the LED will flash yellow for 3 minutes, indicating the caution phase to allow the ozone to kill microorganisms. For priming, you do not need to wait; press the on/off button again to repeat the cycle. After completing three cycles, dispose of the water. Your Ozo-Pen® is now ready for regular use.



Use Instructions
1. Prepare the Unit: Ensure the Ozo-Pen® is fully charged before use. Remove the pen cap (F).

2.Submerge the Pen Tip: Place the pen tip (G) into a vessel containing up to 24 oz (0.709 L) of clear water. Avoid submerging the USB port end of the pen, as it is not waterproof. Ensure the stainless steel electrodes (G) are fully submerged in the water.

3. Power On: Press and hold the ON/OFF button (H) for 3 full seconds to activate the pen. An LED light will illuminate, indicating the battery status:

- Red: Needs charging
- Yellow: Partially charged
- Green: Fully charged

4. Select Ozone Treatment Time: More water needs a longer treatment time. Press the ON/OFF button to begin the ozone process. The LED will illuminate blue to indicate the treatment time:

- 1 Press: Dim blue light (For 8 oz of water, 40 seconds)
- 2 Presses: Medium blue light (For 16 oz, 1 minute 20 seconds)
- 3 Presses: Bright blue light (For 24 oz, 2 minutes)

Continuously stir the pen in the water during the ozone cycle for optimal disinfection.

5. Wait for Disinfection: After the blue LED cycle ends, the pen will enter a 3-minute disinfection phase, indicated by a flashing yellow LED. Once this period completes, the LED will turn green, signaling the water is ready for use.

Shut Down Procedures: Once you are done, give the Ozo-Pen® a shake to remove the excess water. Optional: Lay it out on a clean napkin or cloth to fully dry. Replace the cap and store the pen in its box. For more information and videos demonstrating these procedures, visit www.rovingblue.com.