



## The Evolution of Ultraviolet Disinfection

**For your comfort, convenience and safety**

Kenai's UVC LEDs are designed with a strong focus on environmental sustainability. They boast an exceptionally low power consumption, ensuring minimal energy usage during operation. What sets them apart is their construction, which completely avoids the use of potentially hazardous chemicals. This not only makes them safer for handling and operation but also reduces their environmental impact.

One of the key advantages of UVC LEDs is their ability to cycle without any limitations. They are not affected by on/off cycles, allowing for seamless and reliable performance over extended periods of use. Moreover, these

LEDs offer a temperature-independent, constant UVC output, regardless of variations in water temperature. This feature is complemented by the fact that UVC LEDs do not transfer heat from their emitting surface, which in turn limits the occurrence of lamp fouling.

Furthermore, Kenai provides a unique customization option for their UVC LED modules. This allows for the fine-tuning of the wavelength to suit specific UVC applications. This tailored approach ensures that the UVC LEDs can be optimized for various disinfection needs, making them a versatile and adaptable choice for a range of industries and environments.



CWKUV-4S  
CWKUV-5S

- LED ultraviolet light disinfection
- "Instant-on" devices, requiring no warm-up time to achieve disinfection, allowing for eco-friendly operation in response to water flow
- Extremely long service life resulting in reductions in lamp replacement and labor expenses
- Free of hazardous materials, which eliminates the risk of a mercury spill due to a lamp breakage
- Eco-friendly, extremely low power consumption and no potentially dangerous chemicals used in their construction

**Start enjoying the Kenai UVPro difference today.**

Contact a Kenai authorized dealer to install a UVPro Professional Series Water Treatment System and start enjoying all the benefits of this whole home powerhouse.

# Why might UV be a suitable solution for your home?

**Eliminates Harmful Microorganisms:** UV disinfection effectively destroys bacteria, viruses, and protozoa present in water, providing a reliable method to ensure your water is safe to drink.

**Chemical-Free Treatment:** Unlike some traditional water treatment methods that use chemicals like chlorine or ozone, UV disinfection doesn't introduce potentially harmful substances into your water supply.

**Maintains Water Quality:** UV treatment doesn't alter the taste, odor, or color of your water, preserving its natural quality.

**Eco-Friendly Solution:** It reduces the environmental impact associated with the production, transportation, and disposal of chemical disinfectants.

**Helps to Prevent Waterborne Diseases:** UV treatment provides a barrier against waterborne diseases such as cholera, typhoid, giardia, and cryptosporidium.

**No Residual Byproducts:** Unlike chemical disinfectants, UV treatment leaves no harmful residual byproducts in the water that could pose health risks.

**Low Maintenance:** UV units are relatively low maintenance compared to other water treatment systems. They typically require periodic lamp replacement and cleaning of the quartz sleeve.

**Fast and Effective:** UV disinfection works quickly, sterilizing microorganisms upon contact. There's no need for a long contact time or waiting period before using the treated water.

**Safer for Sensitive Individuals:** UV treatment is suitable for individuals with sensitivities to chemicals, as it doesn't introduce potentially irritating substances into the water.

**Versatility:** UV disinfection can be used for various water sources, including well water, municipal water supplies, and surface water.

**More Cost-Effective:** While the initial investment might be higher compared to some traditional methods, UV disinfection tends to be more cost-effective over the long term due to lower operating and maintenance costs.

**Peace of Mind:** Knowing that your water is being treated with UV light provides peace of mind, especially if you live in an area prone to waterborne contaminants.



## KENAI<sup>TM</sup> UVPro

### **SPECIFICATIONS**

Flow Rate @ (10 mJ/cm<sup>2</sup> at 95% UVT)  
1.5 GPM

Flow Rate @ (16 mJ/cm<sup>2</sup> at 95% UVT)  
1.3 GPM

Flow Rate @ (30 mJ/cm<sup>2</sup> at 95% UVT)  
0.6 GPM

Flow Rate @ (40 mJ/cm<sup>2</sup> at 95% UVT)  
0.4 GPM

UVT (%) Recommended above 90%

Headloss at Max Flow 166 mBar (2.4 psi)

Max Pressure 6.9 bar (100psi)

Max Ambient Temperature 50° C (122° F)

Operating Water Temperature 32-113° F

Water Connections 3/8" OD Tube (fits  
John Guest® style quick connect fittings)

Input Voltage 12VDC

Input Power 15W 16W

Electrical Connection Standard  
12VDC barrel connector, 2.1 x 5.5 mm

LED Life 5,000 hours

