

The Bright Approach to Remediation

Ray

Scalable to your needs, low maintenance and perfect for the treatment of difficult effluents and legacy contamination issues.

Focal Technologies has developed Ray, a passive system, that works when you need it and can be completely shut down when you don't. **A revolutionary approach focusing solar heat and UV to break down organic contamination in fluids and solids.**

The ultimate solar solution that utilizes the sun to clean up some of the earth's largest environmental concerns. By combining heat and the UV spectrum, Ray breaks down organics at the molecular level, with flow rates being adjusted to meet all regulatory requirements. Designed to be an equipment-based approach, **Ray is highly movable with minimal in-ground infrastructure.** It can be scaled to meet site requirements or grow with process needs.

Engineered to **survive in the harshest of environments**, Ray is durable. The lens has an effective life of a minimum of 10 years. The system is designed to stow in snow or high winds. We can provide annual maintenance contracts and technical expertise to ensure Ray is adequately treating your effluent streams.



- **Portable • Sustainable**
- **Affordable • Scalable**
- **No Diesel/Electricity**
- **Virtually No Ongoing Cost of Operations**

FOCAL
TECHNOLOGIES, INC



uses the Sun to address the Earth's most pressing environmental challenges.

SYSTEM SPECIFICATIONS

Table with 2 columns: Specification Name and Value. Rows include Maximum heat (3000 F - 1649 C), Total UV* (7,600 Watts Per Meter Squared), Throughput (Variable depending on discharge requirements), Gross Weight (11,000 lbs), Lens Diameter (40 ft.), Total Height (52 ft.), Base area (400 square feet), Power (220 service or optional PV system), and Custom receiver configurations for solids or liquids.



*Based on 1000 WM² available sunlight

How It Works:

Ray tracks the sun and feeds fluids or soils into the reaction chamber. It is here where the material is subjected to concentrated sunlight from the lens, delivering as much as 3000 degrees Fahrenheit and 7600 WM² of ultra-violet energy.

Ray is capable of disassociating high impact contaminants, such as cyanide, glycols, high BOD content effluents, hydrocarbons, coliform and other organic based contaminants. In addition, a separate receiver option allows Ray to handle solids, such as contaminated soils, medical waste or activating cement with virtually no emissions.

Tested on glycols, cyanide, coliform and high BOD content effluent including brewery and winery waste. Applicable to TCE, pesticides and COD.

Affordable, Scalable and 3rd Party Tested:

Ray is cost effective and can be deployed alone or in groups. Each unit is custom made to meet site requirements, delivered and assembled on site. Leasing options are available through our lease finance entity.

Our system performance has been verified by an independent environmental laboratory by testing contaminants before and after they were exposed and processed through the receiver. Those tests have been used to establish flow rate base lines on a variety of effluents and contaminants.

Engineered to survive the harshest conditions



We at Focal Technologies are interested in showing you how Ray can work for you. Please contact us for more information or a demonstration.



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