

Compact, High-Power UV Flood Curing System

The SunRay is a compact UV flood curing system. All the essential system components are housed in a small lamp head. This integration significantly simplifies the setup, eliminating the need for extensive cabling or additional remote control boxes. Installation involves mounting the lamp head and connecting the AC line cord, a process that is both quick and straightforward. The system is equipped with a long-lasting 400 or 600-Watt metal halide lamp, complemented by a parabolic reflector. This setup allows for an illumination coverage of an 8" x 6" curing area. The UVA light output is evenly distributed at 115mW/cm² (for the 400W lamp) or 175mW/cm² (for the 600W lamp) within the 320–390nm range, measured at a distance of 3". Further enhancing its functionality, the lamp head is equipped with a handle for easy transport and a sliding bracket, allowing for convenient height adjustments.



Features



Auto-Range AC Line Input

Auto-Ranging 90-132 / 180-265 VAC line input is a key feature that eliminates the complexity and risk of incorrect voltage input. Whatever country you're in, this system auto-detects the voltage level and self-adjusts accordingly.

Lamp Power Regulation

The system's switch mode power supply maintains constant lamp power regardless of variations in AC line input or lamp voltages. This regulation provides for repeatable curing times and longer lamp life.

Standby Mode

Implemented via a simple-to-use rocker switch, standby mode reduces lamp power by half. This can be immensely helpful in reducing heat output and stray UV light when the system is not in use, providing both energy efficiency and improved safety.

Elapsed Hour Meter

The inclusion of a front panel hour meter introduces an additional layer of efficiency and convenience to the user experience. This feature diligently monitors and records the operating time of the lamp, allowing users to keep track of lamp age with ease.

Forced Air Cooling

Incorporation of a forced air cooling system, specifically through the use of baffled fan cooling, significantly enhances the performance and durability of the device. This cooling method guides air flow directly to crucial system components that generate heat during operation. By doing so, it ensures cool operation and maintains high system reliability.



Dimensions & Specs

- **System Type:** Parabolic Flood Curing System
- **Part #s:** UV0446; UV0830
- **Lamp Power:** 400W; 600W
- **Input Voltage:** 100-120 / 200-240 AC $\pm 10\%$ (auto-ranging)
- **Input Current (Max @ 120/240V):** 7.0A/3.5A; 10.0A/5.0A
- **Typical UVA Irradiance at 3":** 115mW/cm²; 175 mW/cm²
- **Curing Area:** 8 x 6"
- **Weight:** 11lbs
- **Size (L x W x H):** 11 x 10 x 9"

System Part Numbers

PART	Item	Details
UV0446	SunRay 400W	Compact, high-power UV flood curing system
UV0830	SunRay 600W	

Accessories

PART	Item	Details
UV0454	Adjustable Height Flood Stand	Used with SunRay for bench top batch curing
UV0455	Wrap-around UV Shield	Provides basic UV shielding
UV1094	Rear UV Shield	Supplemental rear protection for blocking low level backside
UV2128	Flood Filter Glass	Replacement filter glass. Filters shortwave and infrared wavelengths
UV2676	Dichroic Flood Filter Glass	Optional dichroic filter glass. Passes shortwave and infrared wavelengths
Multiple	Power Cords	Multiple types available
Multiple	UV Curing Tray	Stainless steel non-stick surface
UV1450-XX	Uvicure Plus II Integrating Radiometer	UVA, UVB or Visible spectral ranges (available in multiple ranges)
UV0495	UV/IR Protective Safety Glasses	OTG (fit over prescription eyewear), 3.0 shade
UV2231	UV/IR Protective Safety Glasses	Sport contour, 3.0 shade
UV1889	UV Protective Face Shield	Lift-up face shield ideal for maximum UV/light protection, 3.0 shade
UV0503	SunRay 400 Instruction Manual	Usage and maintenance info for SunRay 400 System
UV0884	SunRay 600 Instruction Manual	Usage and maintenance info for SunRay 600 System

Replacement Lamps

PART	Item	Details
UV0320	UVA Metal Halide Lamp	400W medium pressure
UV0544	UVB Enhanced Lamp	400W medium pressure
UV0489	Visible Metal Halide Lamp	400W medium pressure, 420nm
UV0545	Visible Metal Halide Lamp	400W medium pressure, 460nm
UV0834	UVA Metal Halide Lamp	600W medium pressure
UV1884	UVB Enhanced Lamp	600W medium pressure
UV1074	Visible Metal Halide Lamp	600W medium pressure, 420nm