

## Fully-Integrated UV Flood System

The NovaRay system is an integrated, state-of-the-art UV flood curing solution, equipped with a high-intensity 600W UV lamp for efficient and uniform post-curing. Designed for versatility, it caters to a broad range of materials, including delicate 3D printed resins, through a sizable curing chamber that enhances throughput by accommodating multiple parts at once. The chamber also features an adjustable height shelf, allowing for flexible part placement and optimal curing exposure. At its core, precision controls enabled by an advanced touch screen interface and a microprocessor allow for exact curing parameters, essential for materials requiring specific conditions. The system's cooler chamber temperature feature ensures material integrity is maintained, crucial for sensitive applications. Customizable intensity profiles offer adaptability to various curing needs, emphasizing the system's flexibility. Modern connectivity options, such as USB, Ethernet, and RS-485, alongside comprehensive data logging, ensure seamless integration into existing workflows and facilitate quality control and process monitoring. Additionally, the system is enhanced with door safety interlock and system alarms with audible notification for increased safety and operational awareness.



## Features



### Customizable Intensity Profiles

Customizable intensity profiles offer adaptability to various curing needs, highlighting the system's flexibility to achieve the best results for everything from delicate 3D printed resins to robust composites. The addition of an adjustable height shelf further optimizes the curing process for parts of varying sizes, ensuring uniform exposure.

### Connectivity and Data Logging

The NovaRay system integrates seamlessly into existing workflows with advanced connectivity options such as USB, Ethernet, RS-485, and digital signals, facilitating both local and remote control. Its comprehensive data logging capabilities enable precise monitoring of curing parameters, crucial for maintaining process consistency, traceability, and repeatability, thereby enhancing operational efficiency and system management.

### Precision Controls with Touch Screen Interface

Features a high-resolution touch screen, paired with a microprocessor for precise control over curing parameters, such as exposure times and intensity settings. The system also introduces system alarms with audible notification to alert operators of any critical issues, ensuring a high level of safety and reliability in the curing process.

### Expansive Curing Chamber

The large curing chamber is designed to accommodate simultaneous curing of multiple components, significantly enhancing throughput and operational efficiency. The adjustable height shelf within the chamber allows for optimized exposure uniformity across all parts, while the door safety interlock enhances user safety by preventing exposure to UV light when the door is open.

### Cooler Chamber Temperature

Incorporates a cooling mechanism within its curing chamber to minimize overheating and ensure the integrity of temperature-sensitive materials. This feature, crucial for maintaining the mechanical and aesthetic properties of cured components, is complemented by the door safety interlock, preventing heat buildup and potential harm to operators.



## Dimensions & Specs

- **System Type:** Fully-Integrated UV Flood System
- **Part #s:** UV4777
- **Lamp Power:** 600W
- **Input Voltage:** 90–265VAC, wide-range AC line input
- **Input Current (Max @ 120/240V):** 10A max (120V range), 5A max (240V range)
- **Peak Irradiance, Typical at 2.5" (Initial):** 140 mW/cm<sup>2</sup> UVA, from bottom face of lamp head
- **Curing Area:** 8 x 6"
- **Weight:** 20.0 lbs
- **Size (L x W x H):** 15.5" x 13.2" x 13.7"

## System Part Numbers

PART	Item	Details
UV4777	NovaRay	Fully-Integrated UV Flood System

## Accessories

PART	Item	Details
UV2128	Flood Filter Glass	Replacement filter glass. Filters shortwave and infrared wavelengths
UV2676	Dichroic Flood Filter Glass	Optional dichroic filter glass for SunRay and IntelliRay floods.
UV0725	Shutter Control Foot Pedal	Provides hands-free control of shutter and exposure timing
UV5359	Remote Control Interface Software	Windows 98/00/XP/7/8/10/11 GUI (firmware dependent)
UV0525	RS232 Remote Interface Cable	For use with above software
UV0526	RS485/Logic Remote Interface Cable	Control from RS485 PC or digital logic
UV0883	Power Cord, 7'6" U.S. Version	Multiple types available
UV4268	Stainless Steel Curing Tray	7 x 9 x 1" for parts batch curing
UV1450-XX	Uvicure Plus II Integrating Radiometer	UVA, UVB, UVC 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/Visible protection, 3.0 shade
UV5125	NovaRay Instruction Manual	Bound hardcopy of the NovaRay instruction manual
UV4868	Lamp Filter Glass Thumb Nuts	6-32. 18-8ss
UV5347	USB 2.0 Interface Cable	A Male to Mini B Male, 6.56" (2.0m)
UV3383	USB to 2-Wire RS485 Adapter/Converter	Port-powered, bi-directional
UV3924	RS485 Remote Interface Cable	DB15 to DB9

## Replacement Parts

PART	Item	Details
UV4958	NovaRay Shutter Shade	Replacement shutter shade. Filters shortwave and infrared wavelengths
UV0834	UVA Metal Halide Lamp	Replacement lamp. 600W medium pressure
UV1884	UVB Enhanced Lamp	Replacement lamp. 600W medium pressure
UV1074	Visible Metal Halide Lamp	Replacement lamp. 600W medium pressure
UV0580	Replacement Fan Filter Elements	Size 80mm, Pkg/5
UV5362	Replacement Fan Filter Elements	Size 60mm, Pkg/5