

High-Intensity UV Flood Curing System

The IntelliRay Pro is a high-intensity UV flood curing system designed for rapid curing of photo-initiated adhesives, resins, coatings, inks, and paints. Built for benchtop use, machine mounting, fixture integration, or conveyor applications, it is well suited for both laboratory work and volume industrial production. Its 600-watt metal halide lamp, integral shutter, touchscreen controls, and programmable intensity and exposure settings give operators a reliable way to produce controlled, repeatable curing results.



Features



Touchscreen Control Interface

The IntelliRay Pro features an LCD touchscreen display for setting exposure time, lamp intensity, system settings, and operating modes directly from the unit.

Adjustable Intensity and Exposure Time

Lamp intensity can be set from 35 to 100%, while exposure can be run in continuous, timed and pulse mode. Timed mode automatically closes the shutter when the selected exposure duration is complete.

Programmable Exposure Profiles

Custom exposure profiles can be saved with named intensity and time presets. Profiles can also be programmed as ramp or step sequences for applications that require changing intensity over time.

Integral Exposure Shutter

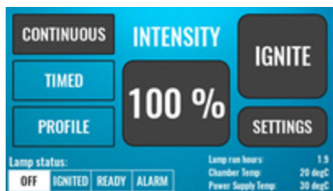
The built-in shutter controls when UV light reaches the curing surface, helping maintain consistent exposure timing and protecting parts between cure cycles.

External Control Interface

Rear-panel interface connectors support foot pedal activation, PLC control, PC control, digital or relay control, USB, RS485, and Ethernet communication using Modbus protocol.

Production Integration Ready

The system can be mounted on a bench, machine, fixture, conveyor, flood stand, or Rayven curing chamber. RS485 and Ethernet communication can also support networking of multiple IntelliRay Pro units.



Dimensions & Specs

- **System Type:** Microprocessor-Controlled UV Flood Curing System
- **Part #:** UV5445
- **Standard Lamp:** 600 Watt Metal Halide
- **Lamp Type:** Quartz, ozone-free
- **Lamp Power Regulation:** +/- 1%
- **Warm-Up Time:** 1 minute
- **Cooling Time Before Restart:** 5 minutes typical
- **Peak Irradiance @ 3":** 140 mW/cm² UVA
- **Curing Area:** 8 x 6" minimum
- **Reflector Type:** Compound parabolic, collimated light output
- **Lamp Life:** 5,000 to 10,000 hours typical
- **Input Voltage:** 90-265 VAC
- **Input Current, 120/240V:** 10A / 5.0A maximum
- **Input Frequency:** 47 Hz to 63 Hz
- **Cooling:** Forced air
- **Over-Temp Shutdown:** 60 deg C internal
- **Weight:** 9.5 lb.
- **Size (L x W x H):** 11 x 10 x 9"

System Part Numbers

PART	Item	Details
UV5445	IntelliRay Pro UV Flood Curing System	Microprocessor-controlled lamp head with integral shutter

Accessories

PART	Item	Details
Multiple	Power Cords	2.5 meter, 10A, 125V
UV1080	Rayven Curing Chamber	Provides full shielding and shutter door interlock
UV5347	USB 2.0 Interface Cable	A Male to Mini B Male, 6.56' / 2.0 m
UV0526	RS485/Logic Remote Interface Cable	For remote interface control
UV5359	IntelliRay Pro Remote Control Interface Software	USB Flash Drive
UV0725	Foot Pedal	Shutter control
UV3922	Replacement Fan Filter Elements	92 mm, 30 PPI
UV0454	Adjustable Height Flood Stand	Stand mounting for adjustable cure height
UV0455	Wrap-Around UV Flood Shield	Front UV shield
UV0495	UV Safety Glasses	OTG, fits over prescription eyewear, 3.0 shade
UV1450-X	UVICure Plus II Radiometer	UVA, UVB or UVC. 10 mW-10 W/cm ²