PortaRay LED

Handheld UV LED Curing System

UVITRON INTERNATIONAL

Handheld UV LED Curing System

The PortaRay LED is a compact, high-intensity handheld UV LED curing system designed for controlled curing of UV-curable adhesives, resins, and epoxies. Its broad 3.5 x 7.75" curing area makes it ideal for larger bond lines, coated parts, assemblies, and production setups that need consistent exposure across a wider surface. Operation is simple and repeatable, thanks to instant LED on/off output, programmable timed exposures, and an integrated touchscreen interface for setting intensity and exposure duration directly from the unit.

Features

Integrated Touchscreen Interface

Features an integrated touchscreen interface for setting intensity and exposure duration directly from the unit. Operators can quickly adjust cure settings, run timed exposures, and maintain repeatable process parameters without needing a separate controller.

Portable Handheld Format

The compact housing and integrated handle make the system easy to position over workpieces, fixtures, and benchtop process areas. The PortaRay LED provides flood-style coverage without requiring a large stationary curing chamber.

High-Intensity LED Output

The system delivers up to 750 mW/cm2 peak irradiance at 3", supporting efficient curing across a 3.5 x 7.75" exposure area. Standard 365 nm and 405 nm versions are available, with 385 nm and 395 nm options available by special order.

No Warm-Up Time

The LED source reaches operating output immediately, allowing operators to begin exposures without lamp warm-up delays. Instant on/off operation also supports cleaner cycle control and reduced unnecessary light output between cure steps.

External Control Interface

A top-panel input/output connector supports remote control and monitoring via Modbus RS485 serial communication, analog 0-10 V signals, digital logic signals, and activation via a conveyor photoelectric sensor. This allows the system to be integrated with PLCs, fixtures, conveyors, or other external equipment when the process calls for automated timing and triggering.

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Dimensions & Specs

- **System Type:** Handheld UV LED Curing System
- **Part #s:** UV5440-365, UV5440-385, UV5440-395, UV5440-405
- **LED Electrical Power:** ~400 W
- **Warm-Up Time:** None
- **Peak Irradiance @ 3":** 750 mW/cm2
- **Curing Area:** 3.5 x 7.75"
- **LED Life:** >20,000 hours
- **Input Voltage:** 90-264 VAC
- **Input Current, 120/240V:** 6/3 Amps max.
- **Input Frequency:** 47 Hz to 63 Hz
- **Current Regulation:** +/- 2% out to LEDs
- **Cooling:** Forced air
- **Over-Temp Shutdown:** 85 +/- 5 deg C internal
- **Weight:** 7.1 lb.
- **Size (L x W x H):** 10 x 3.8 x 6.6"

System Part Numbers

PART	Item	Details
UV5440-365	PortaRay LED Handheld UV LED Curing System	365 nm LED output, 3.5 x 7.75" curing area
UV5440-385*	PortaRay LED Handheld UV LED Curing System	385 nm LED output, 3.5 x 7.75" curing area
UV5440-395*	PortaRay LED Handheld UV LED Curing System	395 nm LED output, 3.5 x 7.75" curing area
UV5440-405	PortaRay LED Handheld UV LED Curing System	405 nm LED output, 3.5 x 7.75" curing area

*special order

Accessories

PART	Item	Details
Multiple	Power Cords	2.5 meter, 10A, 125V
UV1080	Rayven Curing Chamber	Provides full shielding and shutter door interlock
UV5842	PortaRay LED Mouting Bracket Assy	w/ 3.5mm TRRS remote interface cable (Used to Mount to Rayven Curing Chamber or UV Conveyor 40 Plus).
UV5908	PortaRay LED Rayven Remote Interface Cable	3.5mm TRRS to DB9
UV5905	PortaRay LED UV Conveyor 40 Plus Photoelectric Sensor Cable	3.5mm to 4 Pin
UV3383	USB to 2-Wire RS485 Adapter / Converter	USB adapter for RS485 communication
UV5906	PortaRay LED RS485 Remote Interface Cable	3.5mm TRRS to DB9
UV0725	Foot Pedal, Exposure Time Control	For use with Rayven chamber
UV5907	PortaRay LED Rayven Remote Digital/Pedal Cable	3.5mm TRRS to DB9
UV5848	PortaRay LED 0-10V Remote Interface Cable	3.5mm TRRS to flying leads
UV5401	Optical Filter Glass Replacement	Replacement optical filter glass for PortaRay LED
UV0495	UV Safety Glasses, OTG (fit over prescription eyewear)	Fits over prescription eyewear, 3.0 Shade
UV2231	UV Safety Glasses, Sport Contour	3.0 Shade
UV1889	UV Protective Lift-Up Face Shield	#4 Shade
UV3378-X	Rubber Palm Work Gloves	UV light shielding, 1 Pair (- S, M, L, XL)
UV4006-X	LEDCure UV LED Radiometer	40W/cm² (- 365, 385, 395 or 405nm)
UV5359	PortaRay LED Remote Control Interface	USB Flash Drive

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