



The PortaRay is a portable, handheld light curing system. Because of its versatility, it can handle a variety of UV and visible curing applications. With an effective curing area of up to 5 x 5", it is ideal for curing small parts. The system is available either as lamp head only, or with an optional latched bottom accessories box. The lamp head can be used for handheld curing operations, or it can be mounted to a stand, conveyor, machine, fixture or robot. Due to its simple yet high-tech design, the PortaRay is extremely user-friendly and reliable, requiring virtually no learning curve or setup time. Weighing in at 3¼ pounds, the system is ideal for curing applications where frequent transportation is involved.

FEATURES

+ Fully integrated lamp head curing system

The hand-held 3¼ pound lamp head contains a long life 400 Watt metal halide type lamp, which emits evenly distributed UVA, UVB or visible light. Typical lamp life is 2000 hours. The lamp reflector is available as either a parabolic 5" x 5" type for uniform flooding of large areas, or as a focused 5" x 3" type for concentrating maximum intensity onto smaller spots.



+ Lamp power regulation

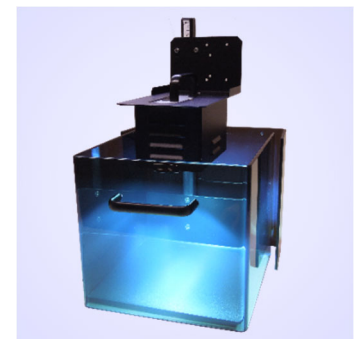
The system's switch mode power supply maintains constant lamp power regardless of variations in AC line input or lamp voltages. This regulation provides for repeatable curing times and longer lamp life.

+ Standby mode

The unit features a standby mode rocker switch, which reduces lamp power while idling. This mode can be used to reduce heat and stray UV light output while the system is not in use.

+ Mounting Options

The system includes an enclosed headrest with optional drawer for holding the lamp head during idle periods. A stand and front and rear shields are available for 360 degree light shielding.



PORTARAY 400W TECHNICAL SPECIFICATIONS

Category	Parameter	Value	Conditions/Notes
General	Model	PORTARAY 400R	
	Part # (see table below)	120VAC input types	240VAC input types
Power Supply	Input Voltage	100-120VAC +-10%	200-240VAC +-10%
	Input Current (max)	7 Amperes	3.5 Amperes
	Source Input Frequency	47 Hz to 63 Hz	47 Hz to 63 Hz
	Lamp Power Regulation	400W ± 1%	220W in standby mode
	Protection	Inrush current limit, Line voltage surge, Short circuit, Open circuit, Hot re-strike, Over temperature, Ignition retry timeout	5 minute
Lamp	Standard Lamp Type	400 Watt Metal Halide	UVA, Quartz, ozone-free
	Lamp Voltage	135 ± 15V	
	Arc Length	32 mm	
	Burning Position	Horizontal	For maximum life
	Radiation Flux	72 Watts	315 - 400 nm
	Warm-up Time	1 to 2 minutes	
	Cooling Time Before Restart	5 minutes typical	Lamp protection prevents restart of hot lamp
	Parabolic Pk Irradiance	200mW/cm ² UVA	3" from base of lamp head
	Parabolic Curing Area	5 x 5" minimum	Affected by lamp height
	Focused Pk Irradiance	240mW/cm ² UVA	3" from base of lamp head
	Focused Curing Area	5 x 3" minimum	Affected by lamp height
	Lamp Life	2000 hours typical	Affected by # of on/off cycles
Environmental	Operating Temperature	+10 °C to +40 °C	(+50 °F to +104 °F)
	Storage Temperature	0 °C to +60 °C	(+32 °F to +140 °F)
	Relative Humidity	30 to 75% operating, 10 to 100% storage	Non-condensing
	Cooling	Forced air	
	Over-temp Shutdown	67°C, 153°F (internal)	Self-recovering after cooling
Dimensions	L x W x H (inches)	8" x 5" x 16.5"	Including bottom enclosure
	Weight (lbs.)	6 lbs. w bottom box	3.25 lbs. lamp head only
	Max Chamber Part Size	4.25" x 4.25" x 2"	For cure in drawer headrest