



PORTABLE AND SPOT UV CURING SYSTEMS

The Porta-Cure 100 ultraviolet irradiator meets the requirements of researchers and field engineers for intense ultraviolet energy for diverse applications, such as:

- Curing photopolymer paints, inks and coatings
- Photoactivation of UV-sensitive adhesives
- Photoresist activation
- Graphic arts exposure and UV adhesives

A compact, portable source of ultraviolet energy with a specially designed 4"-diameter 100-watt mercury vapor discharge lamp, the Porta-Cure 100 provides high output at the 365-nanometer wavelength. Other important features include:

- Integrally filtered lamp to eliminate ozone and all actinic (harmful) ultraviolet
- 72,000μw/cm² typical intensity in spectral ranges of 325 to 382 nanometers at 12" from light source (specifically, 9,280 μw/cm² at the 365-nanometer line)
- All electrical components, including lamp, mounted in fan-cooled instrument case-style housing
- Compact size and light weight ideal for research applications
- Also designed for bench-top use or for optical tripod mounting with unlimited lamp positioning

TECHNICAL DATA

- Lamp Watts: 100
- Input Power: 120 Volt, 60 Hz, 2.2 Amps. 220 Volt, 50 Hz, 2 Amps
- Dimensions: 10"D x 6"W x 8.5"H

The Point Source is made for today's solvent-free manufacturing. This reliable, powerful tool has all the features needed for effective spot curing, including:

- Patented lamp reflector assembly designed for easy access
- All anodized aluminum construction
- Clean room-ready; Class 100
- CE Approved
- 100 watt lamp

- Weight: 10 lbs. (Porta-Cure 100 only). 12 lbs. with optional tripod
- Electrical Connection: 8'/3-wire grounded service cord
- Tripod (optional): Open: 60"; closed: 18"; elevator rise: 14"
- Solid-state, high-performance power supply
- Digital shutter timer with foot switch
- Manual-robotic shutter interface switch
- Standard 5mm x 1 meter liquid-filled light guide
- Total Weight: Less than 14 lbs.
- Footprint: 9.75" x 12.5"
- 8 UV watts



American Ultraviolet Company

It's all we do.

www.americanultraviolet.com

HEADQUARTERS

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PORTA-CURE 1000/1000F/1500F PORTABLE CURING SYSTEMS

Porta-Cure ultraviolet irradiators meet the requirements of researchers and field engineers for intense ultraviolet energy for diverse applications, such as:

- Curing photopolymer paints, inks and coatings
- Photoactivation of UV-sensitive adhesives
- Photoresist activation
- Graphic arts exposure and UV adhesives

The Porta-Cure line of curing systems has been designed to meet requirements for focused or non-focused irradiation. The Porta-Cure 1000F and 1500F feature an elliptical reflector system to concentrate UV energy into a narrow beam across the curing surface. They are ideal for curing fast-moving films, such as printing inks on conveyors.

The Porta-Cure 1000 features a half-round reflector system to irradiate a wide area. This optical configuration permits the unit to be positioned either across or parallel to the curing surface for greater ultraviolet exposure time. The Porta-Cure 1000 is the solution for curing thicker, slow-moving films, such as UV-sensitive adhesive.

All Porta-Cure systems contain a medium-pressure (200/250/300 Watts/linear inch) mercury vapor discharge lamp with high-efficiency output in the 185 to 400nanometer UV cure range. Ozone-free lamps and lamps of various arc lengths are available for direct interchange to the units. Other general features include:

- Specially processed specular aluminum reflector
- Fan-cooled housing
- Remote power supply for maximum operational ease and lamp portability
- High/low lamp intensity control to reduce output to an idle mode
- Designed for conveyor, bench-top or optional tripod mounting.

Model	Porta-Cure 1000	Porta-Cure 1000F	Porta-Cure 1500F
Lamp Wattage	1000*	1000*	1600*
Lamp Arc Length (inches)	5	5	8
Reflector	Half-round, Non-focused	Adjustable elliptical	Adjustable elliptical
Power	120V, 60Hz, 12 Amp**	120V, 60Hz, 12 Amp**	120V, 60Hz 16 Amp**
Lamp Dimensions			
L x W x H (inches)	15.18 x 8.5 x 6.5	15.18 x 8.5 x 6.5	15.18 x 8.5 x 6.5
Lamp Weight (lbs.)	12	12	12
Power Supply Dimensions			
L x W x H (inches)	17 x 12 x 10	17 x 12 x 10	17 x 12 x 10*
Power Supply Weight (lbs.)	48	48	55

*All units are available for 300 Watt/inch operation. PC-1500F at 300 Watts/inch requires a larger power supply and 220 Volt, 60 Hz input power. **Consult factory for optional voltages.

ALL IRRADIATORS SUPPLIED WITH: 8-ft. multi-conductor lamp to power cable, 8-ft./3-wire grounded service cord.

Spectral Irradiance						
Wavelength in Nanometer Units	Distance from Lightsource4"6"12"24"1 Meter					
254	26,000	14,400	4,500	1,125	415	
297	30,000	19,000	8,300	2,170	820	
365	78,000	44,300	13,900	3,435	1,242	
296-405	320,000	165,000	48,000	12,400	4,800	
228-420	1,500,000	880,000	250,000	69,000	26,000	

Readings in Microwatts/CM²