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

The Porta-Cure 100 UV Source

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

- 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

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
- 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”
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 400-nanometer 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.

### Spectral Irradiance

<table>
<thead>
<tr>
<th>Wavelength in Nanometer Units</th>
<th>Porta-Cure 1000</th>
<th>Porta-Cure 1000F</th>
<th>Porta-Cure 1500F</th>
</tr>
</thead>
<tbody>
<tr>
<td>254</td>
<td>26,000</td>
<td>14,400</td>
<td>4,500</td>
</tr>
<tr>
<td>297</td>
<td>30,000</td>
<td>19,000</td>
<td>8,300</td>
</tr>
<tr>
<td>365</td>
<td>78,000</td>
<td>44,300</td>
<td>13,900</td>
</tr>
<tr>
<td>296-405</td>
<td>320,000</td>
<td>165,000</td>
<td>48,000</td>
</tr>
<tr>
<td>228-420</td>
<td>1,500,000</td>
<td>880,000</td>
<td>250,000</td>
</tr>
</tbody>
</table>

Readings in Microwatts/CM²

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