



# Application Bulletin – Model 5.7 Solarmeter

Date: July 28, 2015

Model	Description	Yes	No
<p><b>5.7</b></p>	<p>Total UV (A + B)            Range 0-1999 <math>\mu\text{W}/\text{cm}^2</math></p> <p>Sensitive model for low-level UV. This meter is ideal for checking UV where very sun-sensitive people or materials are concerned about UV exposure levels.</p> <p>Application Notes:</p> <ol style="list-style-type: none"> <li>1. Measure UV intensity through windows.</li> <li>2. Measure UV intensity through protective window film.</li> <li>3. Measure UV from home or business indoor lighting.</li> <li>4. Measure UV from gym and stadium lighting.</li> <li>5. Measure UV in museums near sensitive documents.</li> <li>6. Measure UV through airplane cockpit windows.</li> <li>7. Measure UV through eyewear (clear and tinted).</li> <li>8. Check UV intensity from full outdoor sun. (Please use Model 5.0)</li> </ol> <p>Procedure:</p> <p>Press and hold push button switch while aiming top sensor at light source.</p> <p>The reading represents instantaneous intensity at the distance meter sensor is being held from the source. Moving the meter closer to UV source will increase reading. Hold meter at location of exposure to determine intensity at the subject position (person or object) being concerned about.</p> <p>For UV sensitive people sitting near windows or conventional lamps, moving further away will often reduce the UV intensity to near zero (000) on meter.</p> <p>Further reductions may be achieved by placing any plastic (clear or tinted) over lamps or window film over window glass. Even overhead fluorescent office or school lighting should have plastic shields below the bare lamps. This is especially important for gym or stadium lighting if UV readings at ground level are significant.</p> <p>Some TV studio lighting also emits UV light. Clear plastic shields (at a distance they won't melt) will significantly reduce the UV intensity.</p> <p>For eyewear testing, hold meter sensor under lens and point toward sun or UV lamp. The reading on meter should be as close to zero (000) as possible for best UV blocking result. Since the sun intensity varies a lot with time and day and season, it is recommended that a small table top tanning lamp be procured for best demonstrations and comparisons of eyewear blocking.</p>	<p>X</p> <p>X</p> <p>X</p> <p>X</p> <p>X</p>	<p>X</p>