



## Aging Performance

### Silicon Carbide UV photodetectors vs Silicon and GaP UV photodetectors

**Test** Mercury lamp energy at 254 nm with the flux specified below:

<b>Material</b>	<b>Flux</b>	<b>Hours Exposed</b>	<b>Results</b>
<b>Silicon Carbide</b>	100 Watts/M <sup>2</sup>	2500 hrs	No measurable degradation
<b>Silicon</b>	200 Watts/M <sup>2</sup>	208 hrs	40% loss of output
<b>GaP</b>	15 Watts/M <sup>2</sup>	1000 hrs	4% loss of output

Although the test conditions were not the same, the Silicon Carbide is the only material that did not degrade with long term exposure to UV.