## Intensity Conversion Chart

```
1 Joule = 1 Watt x Time of Exposure (in seconds)
```


## The formula for converting Joules/cm² to milliwatts/cm ${ }^{2}$



Example: $12 \mathrm{~J} / \mathrm{cm}^{2}$ with a 4 second exposure equals an intensity of $3,000 \mathrm{~mW} / \mathrm{cm}^{2}$

The formula for converting milliwatts/cm ${ }^{2}$ to Joules/cm ${ }^{2}$
$\frac{m W / m^{2}}{1,000} \times$ TIME $=\mathrm{J} / \mathrm{cm}^{2}$

Example: $50 \mathrm{~mW} / \mathrm{cm}^{2}$ intensity for 3-minutes (180 seconds) equals an exposure of $\frac{50 \times 180}{1000}=9 \mathrm{~J} / \mathrm{cm}^{2}$

$$
\frac{\left(\mu W / \mathrm{cm}^{2}\right)}{1,000,000}=\frac{\left(\mathrm{mW} / \mathrm{cm}^{2}\right)}{1,000}=\frac{\left(W / \mathrm{cm}^{2}\right)}{1}
$$

