



# Intensity Conversion Chart

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

## The formula for converting Joules/cm<sup>2</sup> to milliwatts/cm<sup>2</sup>

$$\frac{\text{J/cm}^2}{\text{Time (Seconds)}} \times \frac{1000 \text{ mW/cm}^2}{\text{J/cm}^2} = \text{mW/cm}^2$$

Example: 6 J/cm<sup>2</sup> with a 3-second exposure equals an intensity of 2000 mW/cm<sup>2</sup>.

## The formula for converting milliwatts/cm<sup>2</sup> to Joules/cm<sup>2</sup>

$$\frac{\text{mW / cm}^2}{1,000} \times \text{TIME} = \text{J / cm}^2$$

Example: 100 mW/cm<sup>2</sup> intensity for 1-minute equals an exposure of  $\frac{100 \times 60}{1000} = 6 \text{ J/cm}^2$

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

©1999-2022 Dymax Corporation. All rights reserved. All trademarks in this guide, except where noted, are the property of, or used under license by Dymax Corporation, U.S.A.

The data contained in this bulletin is of a general nature and is based on laboratory test conditions. Dymax does not warrant the data contained in this bulletin. Any warranty applicable to the product, its application and use is strictly limited to that contained in Dymax's standard Conditions of Sale. Dymax does not assume responsibility for test or performance results obtained by users. It is the user's responsibility to determine the suitability for the product application and purposes and the suitability for use in the user's intended manufacturing apparatus and methods. The user should adopt such precautions and use guidelines as may be reasonably advisable or necessary for the protection of property and persons. Nothing in this bulletin shall act as a representation that the product use or application will not infringe a patent owned by someone other than Dymax or act as a grant of license under any Dymax Corporation Patent. Dymax recommends that each user adequately test its proposed use and application before actual repetitive use, using the data contained in this bulletin as a general guide. TB103 10/11/2010