Laser Show Safety

Laser Safety at your Fingertips ...

Laser Show Safety is the essential App for anyone who provides laser shows or those that have a responsibility for ensuring laser safety. Within seconds, you can determine the exposure conditions for a wide range of laser effects, from the palm of your hand, using an Apple® iPhone/iPad/iPod Touch* - A wealth of critical information is literally at your fingertips. *Compatible with iPhone, iPod Touch & iPad running iOS 3 or later.*

Quickly and easily, Laser Show Safety provides you with the key information to indicate how the effect's exposure levels relate to safety limits defined in safety standards and legislation. Just enter the output power of the laser, along with a few other parameters that should be provided in the manufacturer's documentation. Decide what distance you want to view the laser effects from, & then choose the type laser effect exposure. Then at a touch of a button, all the important characteristics relating to the exposure are displayed in the palm of your hand. Click the send button, and the results can be emailed straight from your Apple® device for your records.

Find out:
The Maximum Permissible Exposure, (MPE), and power density of the laser exposure.
How the effect exposure relates to the exposure limit, (Hazard Factor).
Spot size of the laser beam at the chosen distance.
Safe viewing distance, (NOHD), for the scanning laser effect, and accidental exposure for a stationary beam.
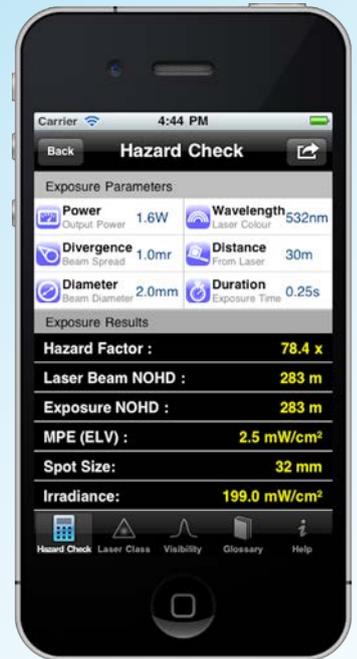
Learn how to:
Design laser effects for safe viewing.
Tweaking the beam power and divergence to alter exposure levels.
Determine exposure levels at different distances away from the laser effect.

Versatility:
Users can specify output powers from 100mW though to 50W, and alter a range of other parameters such as beam divergence and diameter. Scanning conditions can be set to emulate exposures from a wide range of laser effects, including flat-scans, tunnels, finger beams, and fast scans.

Additional Reference Tools:
In addition to the useful Laser Hazard Checker functionality, the App comes complete with a range of reference tools, providing information on laser class, a useful laser show and safety documentation glossary, as well as an interactive wavelength visibility tool that shows you the colour of any visible wavelength, along with information on its apparent brightness under bright, and low light conditions.

Sound Knowledge
Prominent expert in laser show safety, James Stewart, has written the App, motivated by the need to have instant access to exposure assessments in the field. Laser Show Safety may be used worldwide, with its ability to be configured for ANSI and IEC safety standard notation.
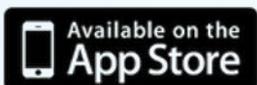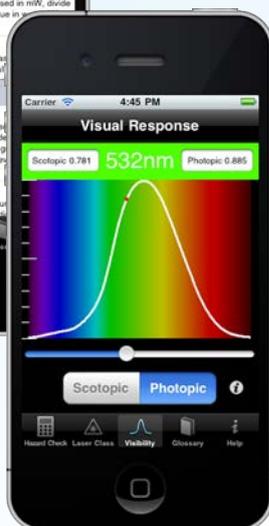
Important Safety Note:
Direct exposure to laser light can be harmful to eyesight and normally care should be taken to avoid doing so, especially if the user has little experience in assessing the risk. Laser Show Safety is provided as tool to aid those competent in assessing laser exposure risk, and should be used alongside other assessment methodologies, not as a substitute.

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