

# Verifying appropriate laser protective eyewear using laser safety software — EASY HAZ™



**EASY HAZ™ Basic Web Version.** Their laser hazard analysis software is free and online at

<http://lasersafetyu.kentek.com/easy-haz-laser-hazard-software-basic-web-version/>



- It provides minimal hazard calculations; see restrictions online

**EASY HAZ™ Professional LSO Edition** has extended capabilities and can be found, along with its instructions, at our internal online access

- Only one person at a time can access this software
- Mac users, use Microsoft Remote Desktop.app
- PC users, use the Remote Desktop Connection
- Login to the LLE computer *easyhaz* as *lleguest*; password is *lleguest*
- From the *easyhaz* desktop you can access the **EASY HAZ™** app or the folder in

# Laser Hazard Analysis using Easy Haz Laser Hazard Analysis Software (Video Link List updated 10/26/15)



- **MPE – [Interpreting Maximum Permissible Exposure 635nm, CW](#)**
  - [https://youtu.be/f\\_MAG2w-nyQ](https://youtu.be/f_MAG2w-nyQ)
- **LHA 1 – [532nm, CW, 200mW industrial laser](#)**
  - <https://youtu.be/fdMT2QsZEU>
- **LHA 2 – [10.6um, 2kW, CW CO<sub>2</sub> laser](#)**
  - <https://youtu.be/IP8SjHHQEhc>
- **LHA 3 – [1064nm, 100W, CW YAG laser](#)**
  - <https://youtu.be/-lgfqlAckxw>
- **LHA 4 - <https://youtu.be/-lgfqlAckxw>**
  - (?? Duplicate?)
- **LHA 5 - [1064nm, 10W Avg Power, 100ns pulse duration, 50 kHz rep rate](#)**
  - <https://youtu.be/zGZzmbwfxZw>
- **LHA 6 - [Lens on laser calculations, multiple sources](#)**
  - [https://youtu.be/\\_P4jg\\_CzotM](https://youtu.be/_P4jg_CzotM)
- **LHA 7 – [1.55um, 200mW, single-mode fiber, CW](#)**
  - <https://youtu.be/G2SKaO-XhuM>

MPE = Maximum Permissible Exposure

LHA = Laser Hazard Analysis

PDB = Personal DataBase

# Laser Hazard Analysis using Easy Haz Laser Hazard Analysis Software (con't)



- LHA 8 – [532nm, 10W, CW \(understanding beam divergence\)](#)
  - <https://youtu.be/shpcbYxRoEo>
- LHA 9 - [850nm, 800mW, CW, home-made laser \(limited info, worst case analysis\)](#)
  - [https://youtu.be/-cDI\\_--X7Oc](https://youtu.be/-cDI_--X7Oc)
- LHA 10 - [1064nm, 30mJ/pulse, 50ns pulse \(optically aided viewing, atmospheric attenuation\)](#)
  - <https://youtu.be/couB2AvQ4ow>
- LHA 11 - [1550nm, 200mW, CW \(free space communication, beam expander\)](#)
  - <https://youtu.be/HnkVqqrTCv8>
- LHA 12 – [UV \(248-351nm\) Excimer, 200 mW, 25ns/pulse, 50Hz \(flat-top rectangular beam\)](#)
  - <https://youtu.be/uGQGVY1rYLo>
- LHA 13 - [532nm, 400mJ/pulse \(particle velocity measurements, Freq. doubled YAG\)](#)
  - <https://youtu.be/-zf2s8UtMPE>
- LHA 14 – [650-900nm, CW, 200mW Avg, tunable Ti-Sapphire](#)
  - <https://youtu.be/dUjIHfbk3ak>
- Ultrashort Pulse – [400-1400nm, <100fs](#)
  - <https://youtu.be/xIMzAV617ml>