



**! DANGER**

**CLASS 4  
LASER  
PRODUCT**



**AVOID EYE OR SKIN EXPOSURE TO  
DIRECT OR SCATTERED LASER LIGHT**

## RGB Diode Laser Projector

Max. output power: **2100 milliwatts** (2.1 watts)

Wavelengths: **638 nanometers** (900 mW), **532 nm** (700 mW),  
**445 nm** (500 mW)

Min. divergence: **1.5 milliradians** (elliptical 1.5 x 3 mrad)

Output: **Continuous** (CW)

Laser hazard classification: **Class 4, "Danger"**

# Laser Safety Facts



## Laser hazards

### Eye injury from beam

Do not look into the direct or reflected beam; can cause eye injury up to 710 ft (215 m) away. Also, avoid staring at the bright dot scattered from a surface.

### Eye injury from diffuse reflection

Do not stare at bright reflection of the laser "dot" scattered off a surface. Avoid exposures so bright and long that you see a sustained (>10 sec.) afterimage of the laser.

### Visual interference (glare) with pilots and drivers

Interferes with vision up to 2.8 miles (4.5 km) away. Can be a distraction up to 28 miles (45 km) away. **NEVER point any laser towards aircraft or vehicles; it is unsafe and illegal.**

FAA brightness: Equivalent to 800 mW of 555 nm light

### Skin injury & materials damage

Can cause skin burns up to 33 ft (10 m) away. Can burn heat-sensitive materials. Darker colors will heat up faster.

## Safe use guidance

This is a high-powered laser that should be used with care. Always be aware of the beam's location. This is not a toy. Do not permit children to use a Class 4 laser. Supervise teenagers; some have injured themselves or others with Class 4 lasers.

### Laser safety eyewear

To help prevent eye injury, use laser safety eyewear that has an Optical Density of at least 3.4 for all wavelengths of this laser. Other use situations may require different OD's; consult a Laser Safety Officer.

### Not intended for audience scanning laser shows

Scanning the beam does NOT significantly reduce hazards. Do not aim directly at any person closer than 710 ft (215 m) away.

### Lasers used in shows have additional regulations

Laser devices used for shows, displays or demonstrations are highly regulated in the U.S. and elsewhere. Follow local, state and national laws, such as the U.S. FDA requirement that a person have a variance before shows can be done in public.

### Additional safety information online

Scan QR code at top, or go to [www.LSFacts.com](http://www.LSFacts.com) and enter EZ Code PR\_638-900-532-700-445-500\_15\_CW\_4

**Manufacturer:** Shenzhen XYZ Laser Lighting Co. Ltd., China  
[www.shenzhenXYZ.com](http://www.shenzhenXYZ.com). Label information certified by UL,  
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