

## Laser Safety Classification at AggieFab

AggieFab operates several advanced laser-equipped systems, including the Heidelberg MLA150, Nanoscribe PPGT2, and UpNano NanoOne. These systems are classified as Class 1 laser products under normal operating conditions, meaning they are safe during intended use and do not pose a hazard to users.

Under Texas A&M University's laser registration policy, Class 1 laser products do not require registration, provided they are used as intended and safety features remain in place.

## Equipment Overview

Equipment	Product Class	Laser Class	Laser Power (mW)
Heidelberg MLA150	1	4	2800
UpNano NanoOne	1	4	1000
Nanoscribe PPGT2	1	3B	180

## Laser Safety Standards and Classification

According to the following standards, these systems remain Class 1 as long as interlocks are intact and optical covers are not removed. However, if these safety features are bypassed—typically only during servicing by trained technicians—the internal lasers may expose users to Class 3B or Class 4 hazards, requiring strict safety precautions

- ANSI Z136.1 – American National Standard for the Safe Use of Lasers
- IEC 60825-1:2014 (MLA150, PPGT2)– International Standard for Laser Product Safety
- EN 60825-1:2014 (NanoOne)– European adoption of the IEC standard

## Training Recommendation

All AggieFab users and staff are encouraged to complete the Laser Safety Training provided by Texas A&M Environmental Health & Safety to ensure awareness of laser hazards and safe operating practices, <https://ehsdtraining.tamu.edu/>.