

## NextDent 5100™ SAFETY OVERVIEW

Please read the [NextDent 5100 User Guide](#) for complete safety information. The NextDent 5100 is an efficient 3D printer that produces high-fidelity parts from a broad range of materials. Before using the printer, you must have a safety program in place to ensure a sound working environment.

### ULTRAVIOLET (UV) RADIATION

Radiation Wavelength -  $\leq 405\text{nm}$



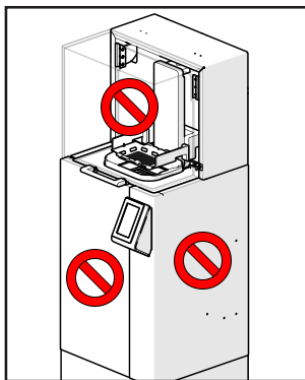
Under normal operating conditions, UV radiation is completely confined. Printer lid should remain closed during printing. The print engine's UV light is classified as IEC 62471 Risk Group 2 and does not pose a hazard due to human aversion response. However, it is still good practice not to stare directly into the projector, particularly when running the machine with an empty print tray. If you must look into an active projector for an reason, it is best to wear UV-resistant glasses.



**Do not stare directly into the projector.**



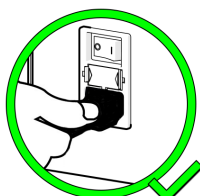
**Do not stare directly into the projector.**



**Do not open lid or panels during printing.**

### EMERGENCY SHUTDOWN

The printer does not have an emergency shutdown button, nor does the power button fully cut power to the machine. In the case of an emergency, unplug power to the machine at the power inlet on the back



### RESIN HANDLING AND SAFETY

Store resin in the opaque, non-reactive containers they shipped in. Dispose of waste resin according to all local, state, and federal regulations. If liquid resin contacts skin, wash with soap and COLD water. Always read a resin's Safety Data Sheet (SDS) before using it.



**Always wear chemical-resistant gloves, such as nitrile, when handling liquid resins.**



**Wear safety glasses to prevent liquid resin splashing into eyes. If resin gets in eyes, flush immediately with COLD water for 15 minutes. Avoid sources of light. Discard contact lenses with resin on them. Obtain medical attention if irritation persists.**



**If you experience any physical complications from inhaling liquid-resin fumes, seek medical attention.**



**The resin-curing process generates heat. If liquid resin is on the skin, and you walk under a light source like the sun or indoor lights, this exothermic reaction could burn you.**

### POST-PROCESSING TOOLS

Included platform scraper, resin mixer, and punch tool have sharp edges. Take care not to cut yourself. A safe workplace is a happy workplace!

### CLEAN WORKPLACE

Always maintain a clean 3D-printing environment. Clean any resin spills or sticky surfaces with ethanol or isopropyl alcohol (IPA) and paper towels. Keep printer clean of dust and debris to avoid print failures.

### LEVELS OF USER

**Operator** - Operators are those who have read the User Guide and can perform all the necessary tasks to build a part. The operator may also perform simple maintenance procedures as outlined in this manual.

**Certified Service Personnel** - Certified service personnel are those who have completed the 3D Systems service training package, and are certified to perform service tasks on the NextDent 5100 Printer. Certification may occur at various levels, and certified service personnel should only perform tasks they are authorized and certified to complete.