How to determine UV Dosage for disinfection using The Aurora

Get to know the UV basics:

Radiant Exposure – mJ/cm² or µW/cm² (1 mJ/cm²= 1,000 µW/cm²)

UV Intensity – Energy per unit surface area

Exposure time – Measured in seconds

UV Dose (Fluence) – INTENSITY X TIME =mJ/cm² or µW/cm²

LOG REDUCTION

Log reduction	Percent Inactivated
1	90%
2	99%
3	99.9%
4	99.99%
5	99.999%
6	99.9999%

What microorganisms are you targeting and what UV dose is needed to inactivate them?

Pathogen	**2 Log Reduction**
Influenza	6,600 µW/cm² or 6.6 mJ/cm²
Staphylococcus aureus	6,600 µW/cm² or 6.6 mJ/cm²
Infectious Hepatitis	8,000 µW/cm² or 8.0 mJ/cm²

**Targeting a different microorganism? Contact us for a full list.

What UV dose does the Aurora produce?

Distance from surface	UV Dose produced
4”	22,004 µW/cm² or 22 mJ/cm²
8”	10,875 µW/cm² or 10.8 mJ/cm²
12”	6,862 µW/cm² or 6.8 mJ/cm²

Always follow safety guidelines!

*** Wear PPE (glasses, face shield, no exposed skin)**

*** Use hazard warnings when in use**

*** Do not allow anyone in area without PPE**

*** Only operate if trained**

*** Do not expose eyes or skin to UVC**

*** Do not touch lamps while operating**

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