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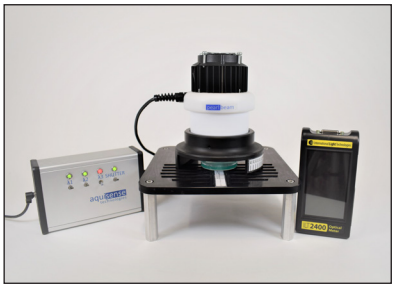
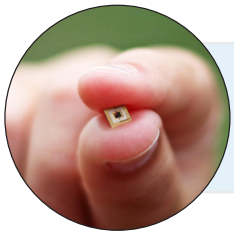
PearlLab Beam™

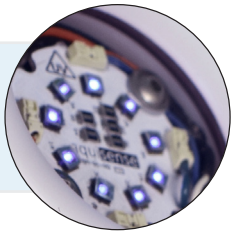
UV Research Tools





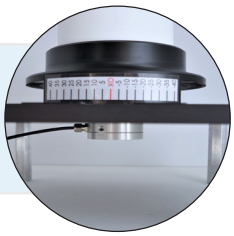
Utilizes small, state of the art UV-C LEDs which provide pathogen reduction without the use of harmful chemicals or mercury-based UV lamps.

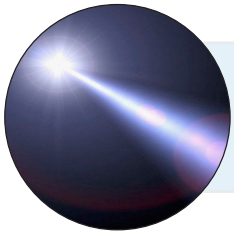
Features UVinaire™: Replaceable UV LED lamp module with up to 3 selectable wavelengths. Stabilized UV output through advanced cooling design.



Optional Stage and Stand accessory allows for easy access to a Petri dish as well as simple and repeatable Petri Factor measurement.

Optional UV Intensity sensor and radiometer allow measurement in the 250-400 nm range and provide data and trends.





Applications include UV Dose (UV Fluence) response for liquids and surfaces, photopolymerization of materials, wavelength effect studies, and fluorescent slides.

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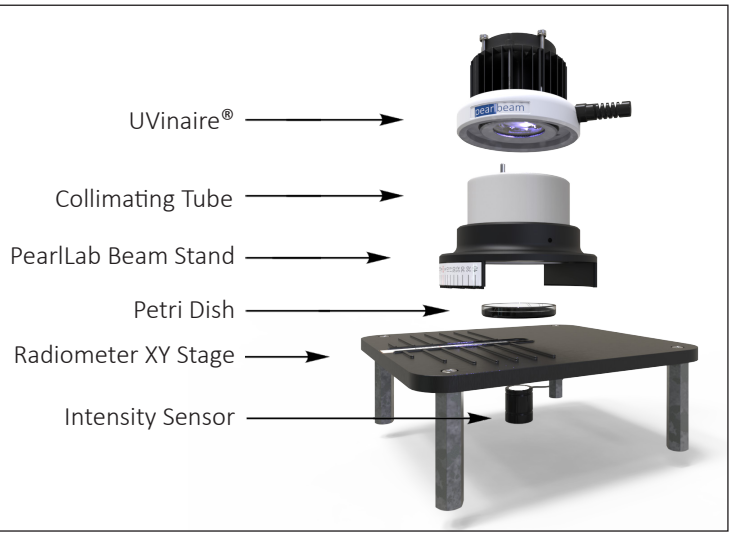
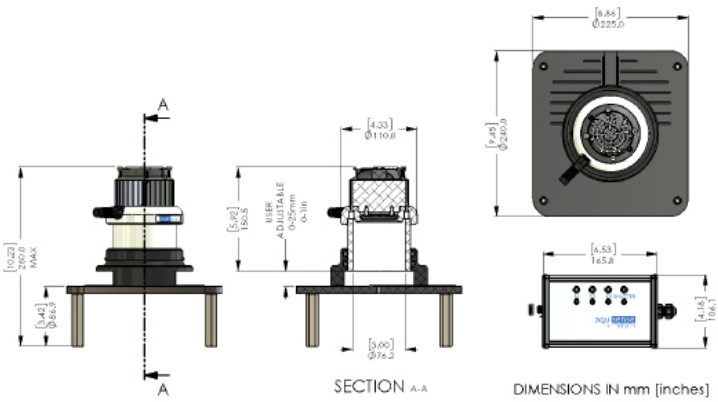
Features	
Ultra Small Footprint	Petri Factor greater than 0.9
Instantaneous On/Off	Individual or Multiple Wavelengths
Unlimited Cycling	Suitable for Lab or Field Use
Mercury Free	Stand-Alone Thermal Management

Specifications	
Operating Temperature	0-35° C [32-95° F]
Lamp Life	Over 1,000 hours
Weight	Approx 1.6 kg [3.5 lbs]
Input Power	110-240 V AC Power Supply

Accessories		
Stage and Stand	Intensity Sensor & Radiometer	Carrying Case



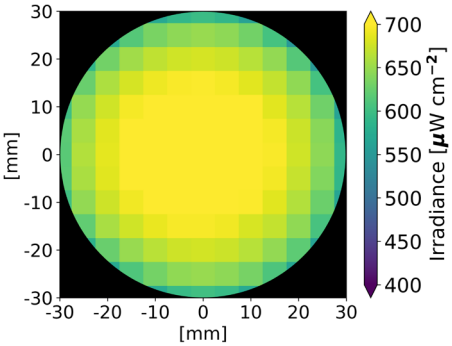
Dimensions



Model Number**	Wavelength (nm)	Irradiance* (mW/cm²)
S255	255	0.05
S280	280	0.7
D255/280	255 & 280	0.05 & 0.7
T255/265/280	255, 265, & 280	0.05, 0.3, & 0.7
T265/280/300	265, 280, & 300	0.3, 0.7, & 0.7
T280/300/365	280, 300, & 365	0.7, 0.7, & 13

*Irradiance is measured at the bottom of the collimating tube.
**Custom PearlLab Beams are available. Please contact us for details.

Intensity Distribution



Typical 280nm Irradiance at the end of the collimating tube. Data taken from a PearlLab Beam S280 using SED270/Q5 detector.
5 mm measurement spacing across 60 mm Ø sample at < 5 mm working distance.

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