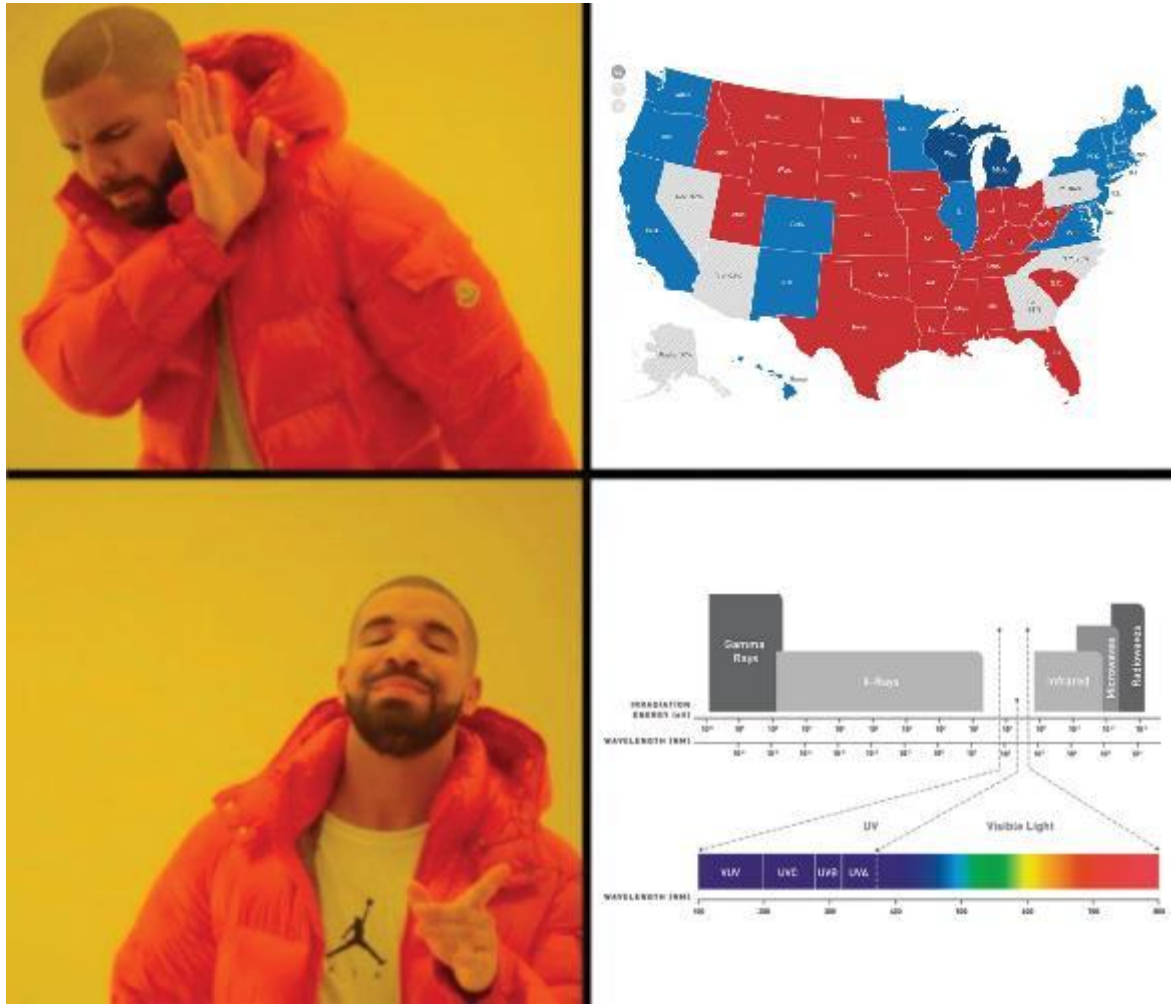

Gamma Rays
X-Rays
Infrared
Microwaves
Radiowaves
UV
Visible Light
VUV
UVC
UVB
UVA

International Ultraviolet Association (IUVA)

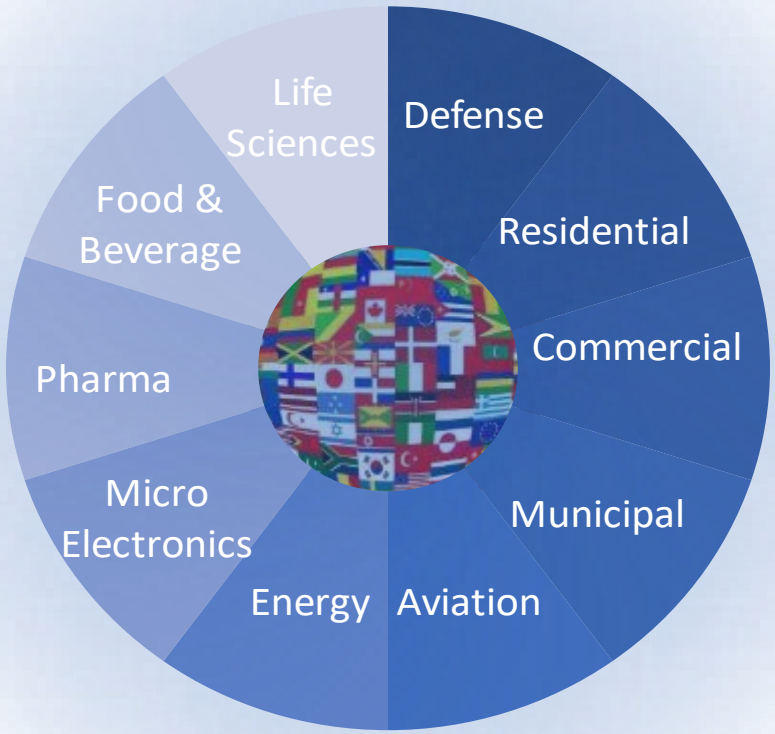
- Founded in 1999
- IUVA is a not-for-profit, educational association
- Members: utilities, regulators, academicians, consulting engineers, manufacturers, and other interested professionals
- Members in 36 U.S. states and over 30 countries

Our Mission

- Provide a forum for the discussion of scientific and technical issues relating to the use of UV
- Develop a common voice for users & suppliers UV technologies
- Develop rational terms, units and nomenclature in UV technology
- Encourage research into the advancement of UV technologies
- Promote adoption of rational environmental regulations that consider the use of UV

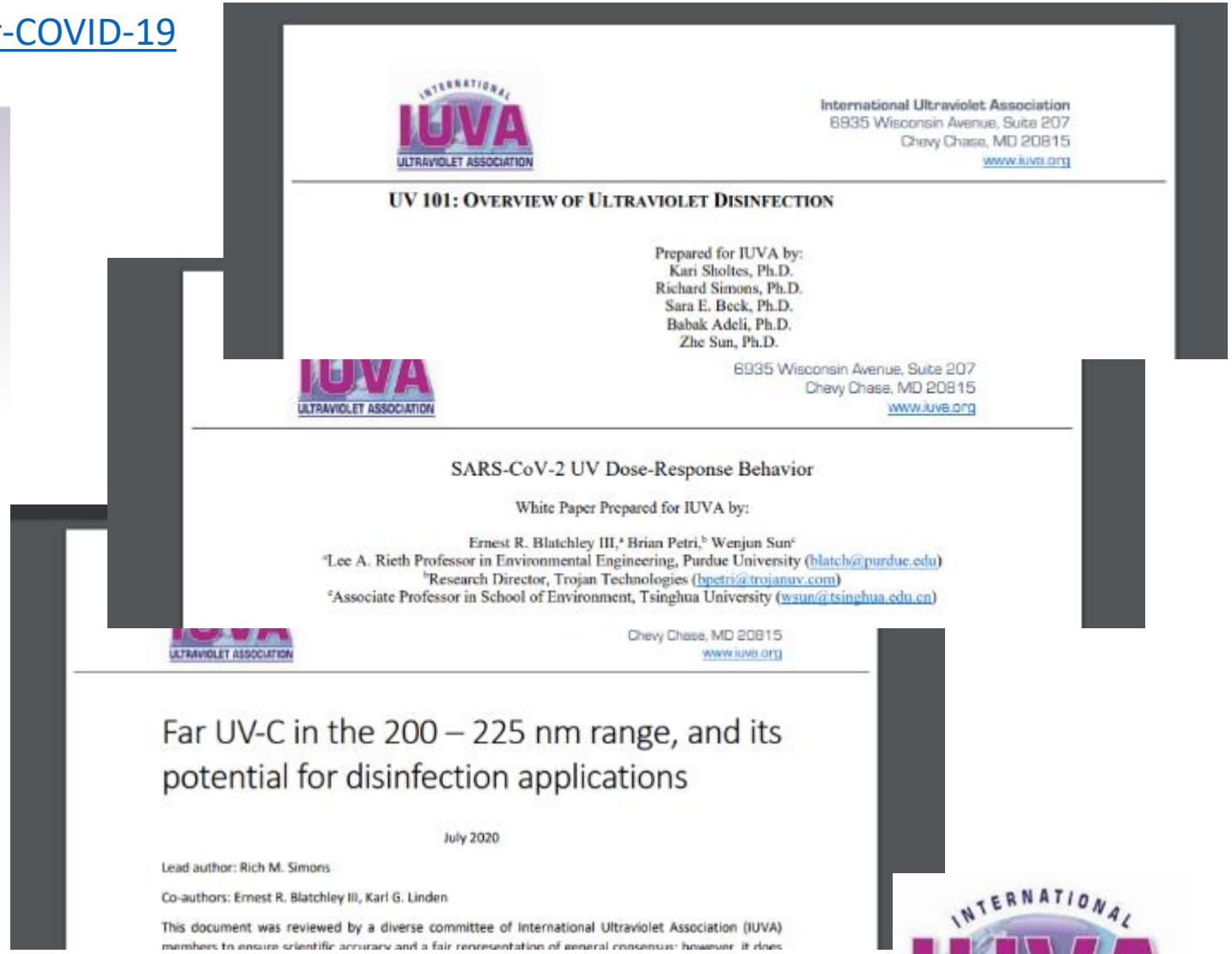
INTERNATIONAL IUVA ULTRAVIOLET ASSOCIATION

UV Applications



COVID19 Specific Response

https://iuva.org/IUVA-Fact-Sheet-on-UV-Disinfection-for-COVID-19



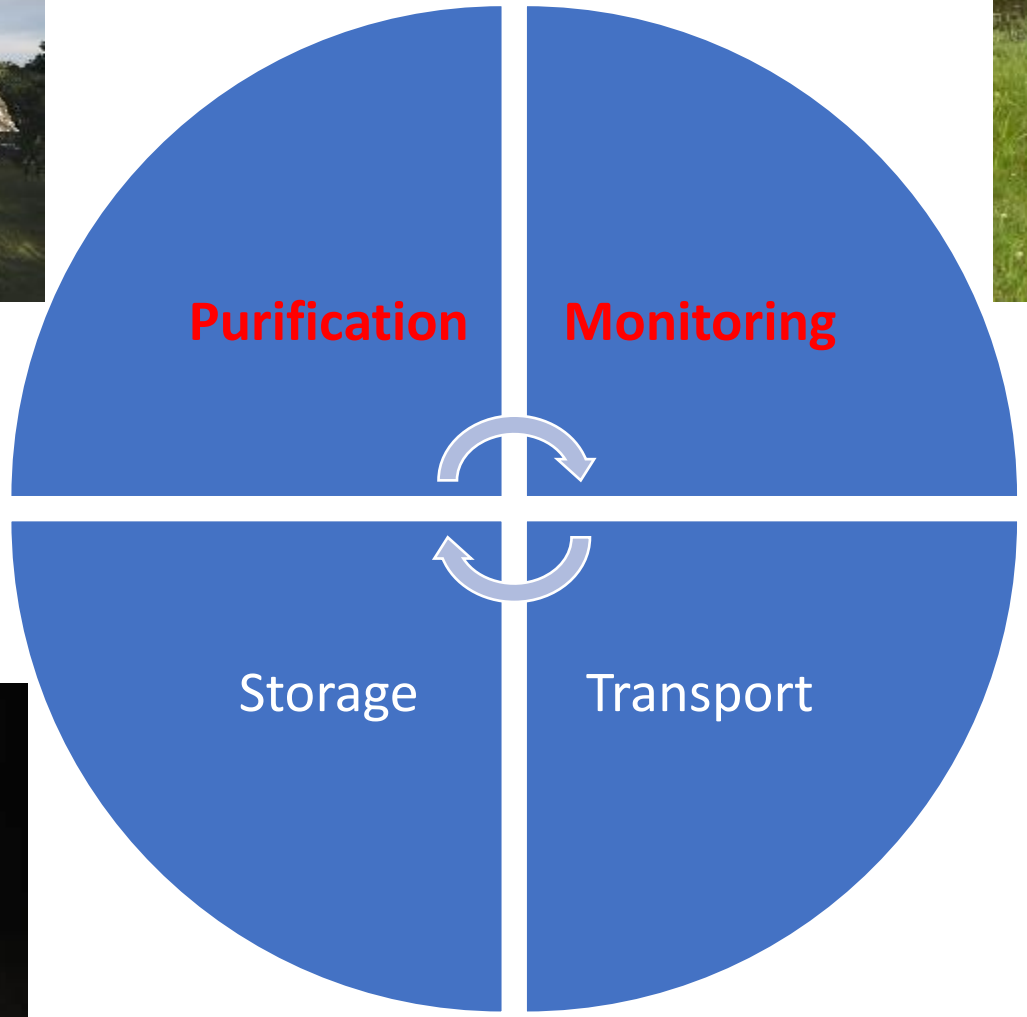
Light-Sources:
More than Just a Wavelength

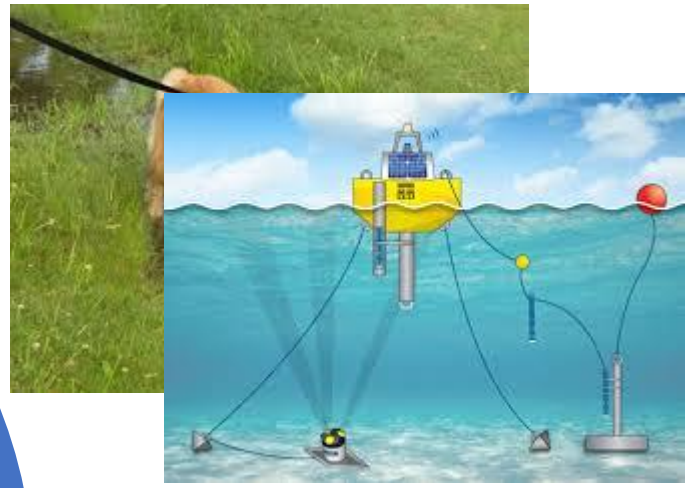
EPIC Online Technology Meeting
Water Quality Monitoring and Purification
In Cooperation with IUVA

9 November 2020

aquisense technologies

Water Quality & Purification





Light Sources Overview

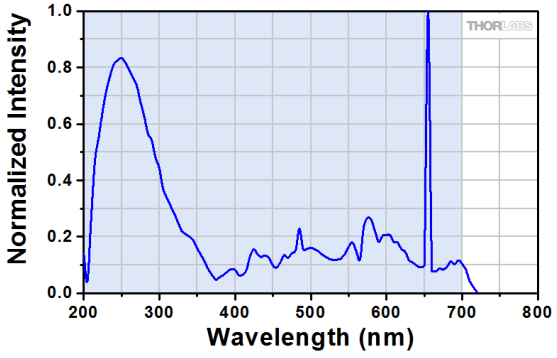
Lamp Technology

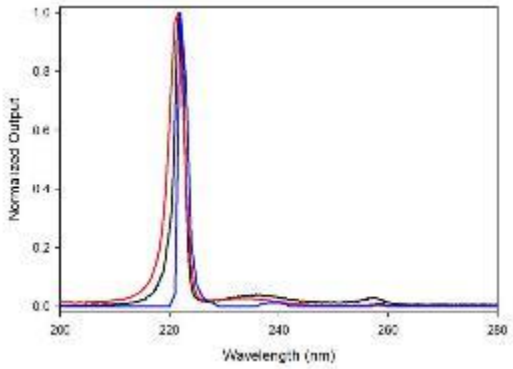
Deuterium	Xenon	Mercury-Vapor LP & MP	LED

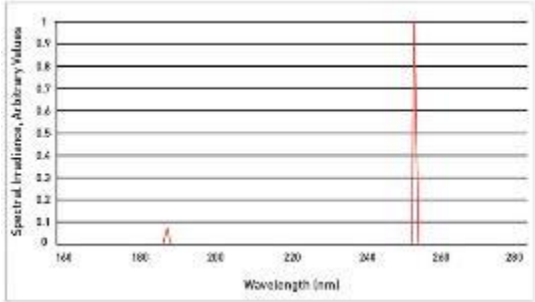
Light Sources - Wavelength

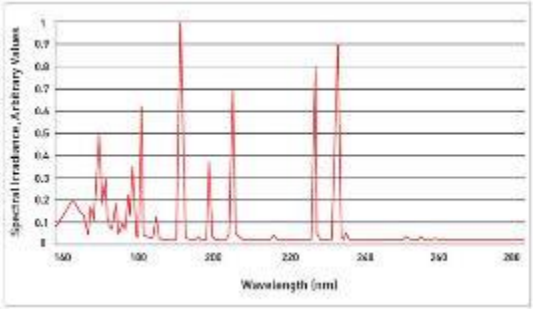
Lamp Technology

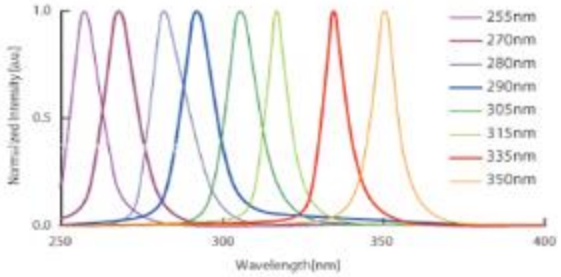
Deuterium	Xenon	Mercury-Vapor LP & MP	LED





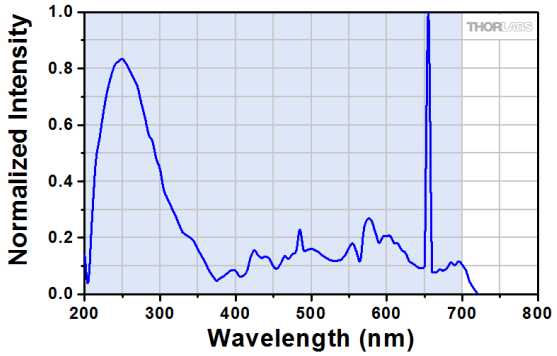


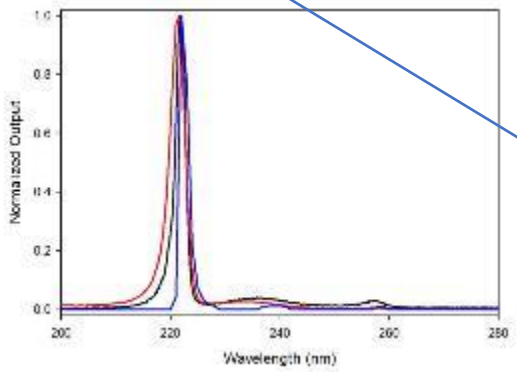


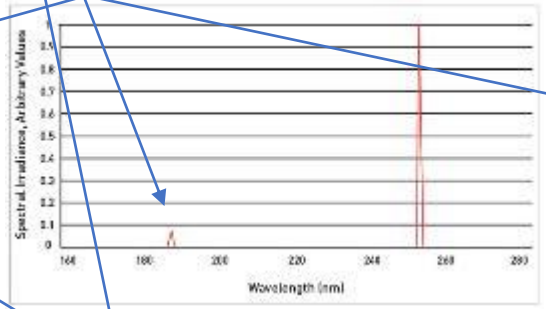


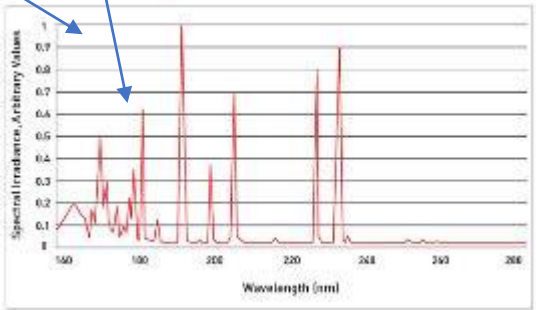
Application

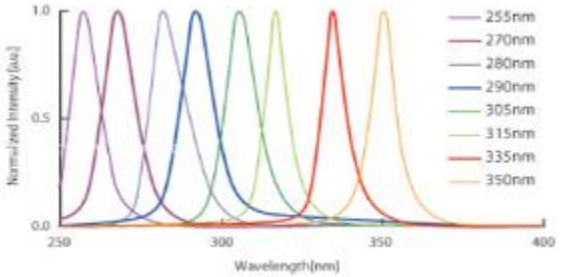
Measurement | Ozone / Oxidation | Disinfection









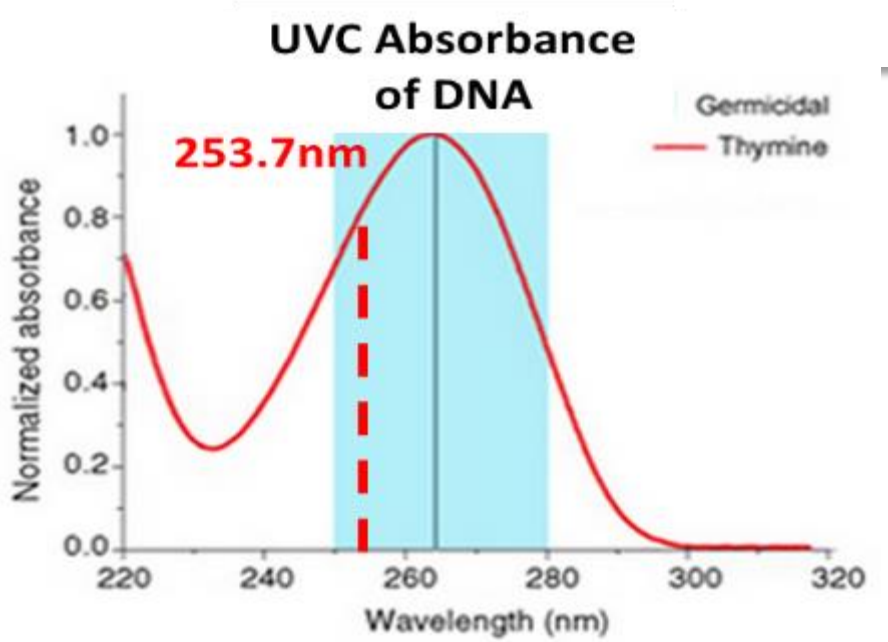


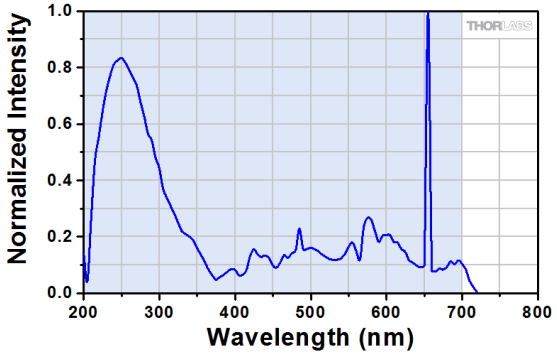
Application

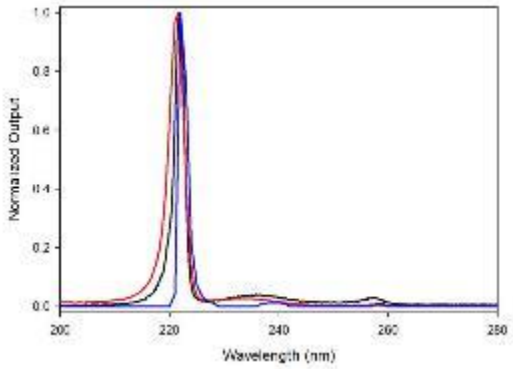
Disinfection

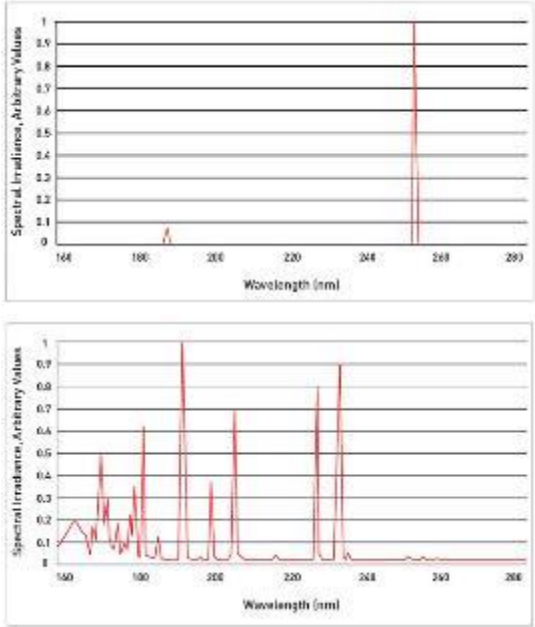
Selection made based on multiple factors

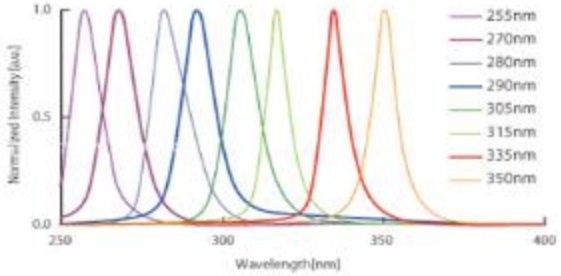
- Wavelength
- Cost
- Lifetime
- Efficiency
- Footprint
- Output power



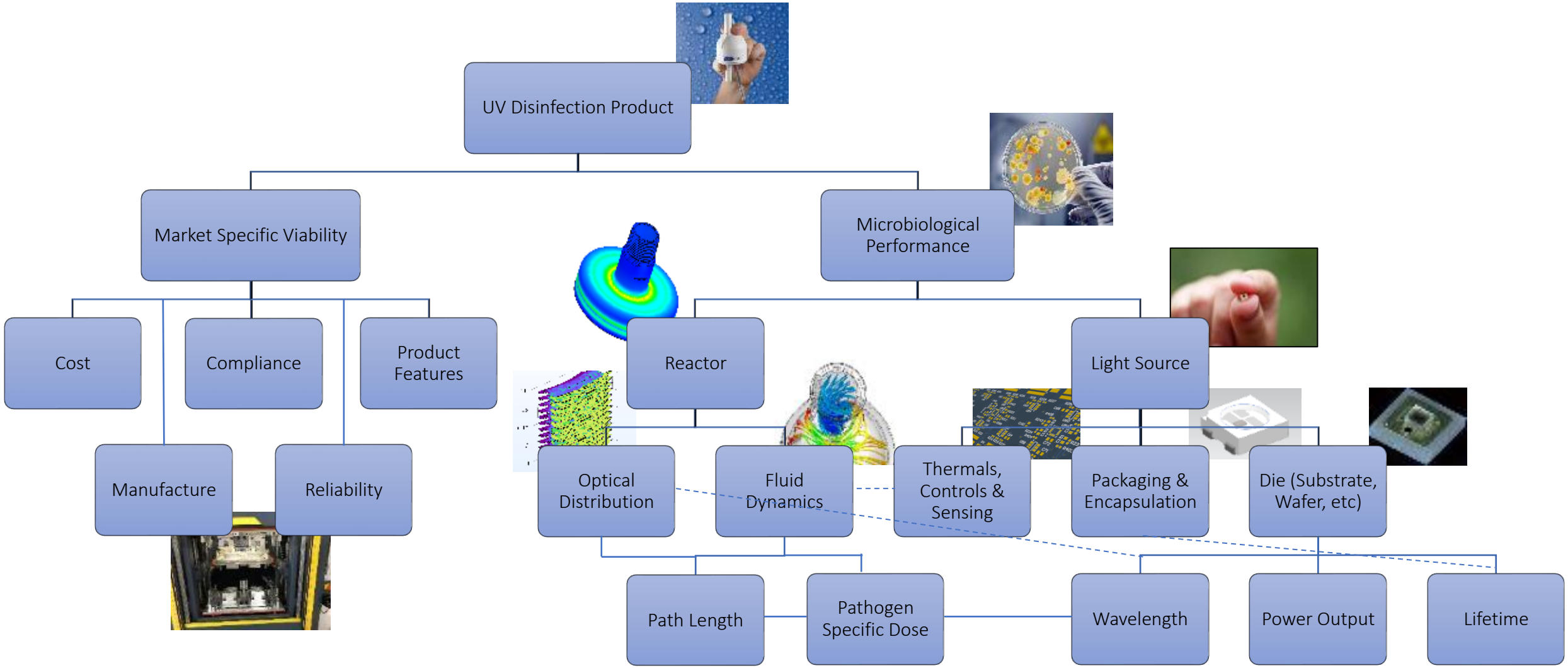








More than Wavelength - Key Design Criteria



AquiSense Product Platform Overview

Stand-alone

- PearlAqua
- PearlAqua Deca
- PearlSurface

OEM Integration

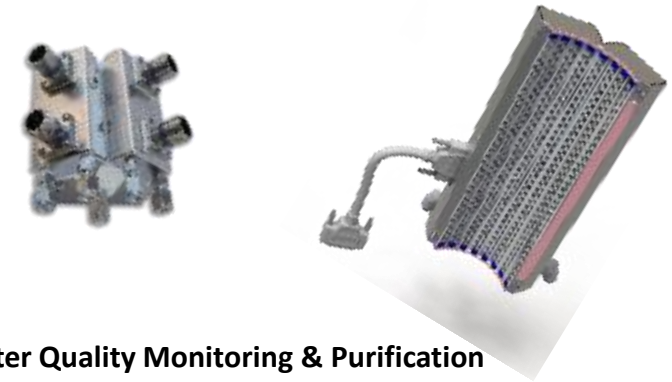
- PearlAqua Micro
- Custom Variants

Research Products

- PearlBeam
- Others; LabMicro, Thin-Film

Special Projects

- Space, Aviation, Automotive, Oil & Gas, Microelectronics, Medical, etc



New Major Supply Contract

Company:	Mitsubishi Electric Corp
Product:	Eco Cute Heat Pump
Application:	Water Reuse
Contract Start:	August 2020
UV Product:	AquiSense PearlAqua Micro
Criteria:	Price, Performance, Quality, Volume