

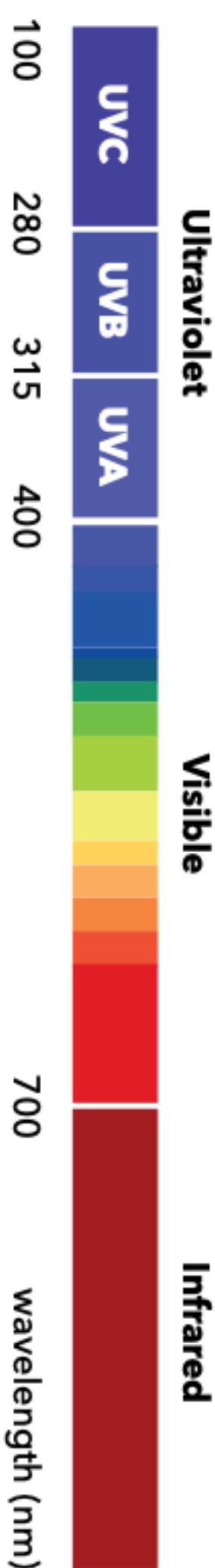


TRANSITGUARD

FAR UVC 222NM LAMP



2021
EDITION

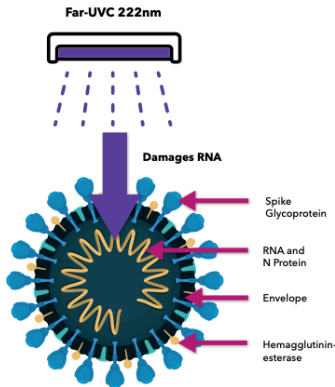


BACKGROUND ON UVC

UVC light covers wavelengths from 100 to 280 nanometers. UVC is naturally generated by the sun but it does not reach the surface because of the ozone layer. Ultraviolet energy in the UVC band has been showed to be effective against germs and viruses, with decades of scientific study. Across the 100-280 nanometer spectrum, two points of commercial interest have occurred because of efficacy, safety, and producibility. UVC light at the 222 and 254 nanometer range are the most widely used. 254 nanometer UVC has been used in water treatment since 1910. 254 nanometer UVC has been used in hospitals since the 1980's. Recently the FDA has commented that UVC radiation is effective in inactivation of COVID.

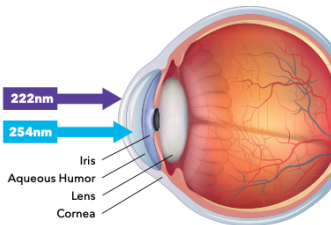
The 254 nanometer wavelength has strong antiviral characteristics but is harmful to humans and pets. The 222 nanometer wavelength is called FAR UVC. FAR UVC light has the same strong antiviral characteristics without being harmful to humans or pets. Far UVC 222nm is newer to the commercial market than 254 nanometer. Rightfully so there is caution about this new technology. There are ineffective products on the market. Consumers should purchase a product that is independently tested and shown to be effective.

DOES FAR UVC LIGHT KILL PATHOGENS?

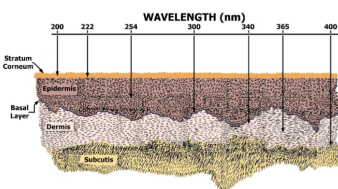


Yes it does. FAR UVC lights destroys odors, germs, bacteria, molds, virus, and COVID. FAR UVC light penetrates the pathogen disrupting the DNA, RNA, and the surface membrane. FAR UVC light can achieve a 99.99%+ kill rate. Recent studies at Irvine Medical Center at Columbia University and University of St Andrews have proved FAR UVC's efficacy. Our FAR UVC 222nm Lamp has independent testing results showing it achieves a 99.99% kill rate.

CAN FAR UVC BE USED SAFELY?



The safety of FAR UV light depends on how deep the wavelength can penetrate. The structures we need to protect are the eye and skin. FAR UVC 222nm light cannot go further than about 20 micrometers when interacting with the body. 254nm UVC energy can travel further and that is why it's dangerous. FAR UVC 222nm light cannot travel further than the top layer of skin, the cornea, and outermost layer of the eye. Our FAR UVC 222nm Lamp only uses certified parts to filter out harmful wavelengths and deliver mainly 222nm FAR UVC wavelengths. This filtering allows our Lamp to safely be installed inside the bus.





Forbes "Technologies To Help Fight COVID" -
First listed solution is FAR UVC

WHO ELSE SELLS FAR UVC?

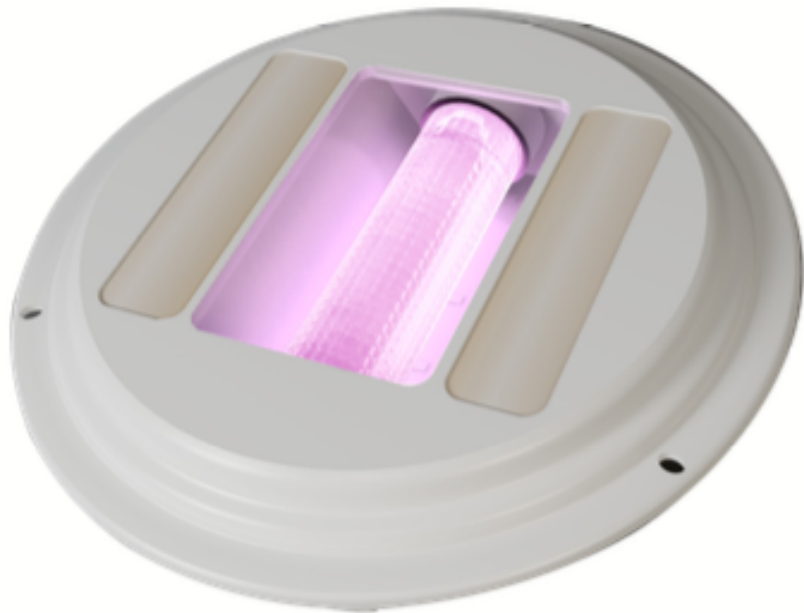
- LumenLabs - Products intended for indoor spaces like office or manufacturing
- Acuity Brands Care222 - Intended for retail, schools, office, and medical
- FAR UV TECHNOLOGIES Krypton-11 - Meant for indoor spaces, buildings, vehicles, and public transportation
- Larson Electronics - Intended applications for medical, office buildings, or restaurants

WHERE IS FAR UVC BEING USED TODAY?

- Barons Bus - A private charter bus service operating out of Cleveland, Ohio
- Little Rock Air Force Base - Air Force base using FAR UVC 222nm for plane disinfection
- Boeing - FAR UVC 222nm used for plane disinfection
- Pentagon - Using FAR UVC 222nm for office disinfection
- Discover Echo - A microscope manufacturer using FAR UVC 222nm for office disinfection
- Space Needle - Entry portal Sanitation
- OASIS QUASAR Bottle Fillers - FAR UVC 222nm for water disinfection

CONCLUSION

UVC products can be designed and used in a safe manner. Demonstrable efficacy in immobilizing COVID has been achieved. FAR UVC 222nm light provides the promise of safety and efficacy for viruses, germs, odors, molds, bacteria. Our FAR UVC 222nm Lamp brings the benefits and safety to the transit industry. You can keep your fleet continuously sanitized while in service from the start of the day to your last rider.



VISIT THE [**TRANSITGUARD**](https://www.transitguard.com) WEBSITE

