Frequently Asked Questions

What is the Beacon Lamp?

The Beacon Lamp is a human-safe excimer disinfectant lamp that is intended to be used in enclosed spaces.

How is this lamp different from the UV lights used in disinfecting masks I see on TV?

The UV nanometer (nm) wavelength that is seen disinfecting masks in major hospital centers use a nanometer wavelength above 222nm. Studies have shown the conventional 254 nanometer wavelength could be harmful when exposed to humans. See below on studies related to the safety and efficacy of 222nm.

Can the Beacon Lamp be used in residential settings (e.g., public transportation, dorms, arenas, public living facilities, etc.)?

Yes, the Beacon Lamp can be used in any indoor setting where people are likely to be in close contact with one another.

Can I have this lamp on when I am in the room?

The Beacon Lamp has been designated as a disinfectant lamp according to the EPA, however, we are confident in the science-backed technology to provide the safest possible exposure to effectively kill viruses while humans are in the same room. We are continuing to rigorously test the Beacon Lamp to ensure we set proper guidelines on the length of time the lamp will need to be turned on to effectively kill viruses in the room, essentially disinfecting the room.

Can the Beacon Lamp be used in single-family residential settings?

The immediate application of the Beacon lamp is for public indoor settings, where individuals have limited knowledge of the health status of their peers around them.

Humn Project will be focusing on working with interested individuals who can utilize the Beacon Lamp in a public setting prior to moving into individual usage-applications.

Can the Beacon Lamp kill Covid-19 and other viruses?

At Humn Project, we provide as much scientific evidence on our products as available with information and description by leading scientists in their field. Below you will find the science behind the effectiveness of the Beacon Lamp, the far-UVC lamp it uses in it's design, and multiple research studies down on the usage of this 222 nm far-UVC lamp.

From a renowned science researcher at Columbia University in New York City, Dr. David Brenner answers this question by stating in a recent Forbes article, "...far-UVC lamps would be useful to reduce not only the transmission of COVID-19 but, ongoing, also other airborne diseases such as seasonal influenza, measles and TB – not to mention the next pandemic virus when it comes. I might just add in terms of safety, that there are already national and international regulations as to how much UV light of a particular wavelength people can safely be exposed to. The far-UVC vendors are designing their lamps to stay well within these regulatory safety limits."

In a study published in June, the findings of far-UVC 222nm light was extremely promising: "Far-UVC Light Safely Kills Airborne Coronaviruses," preliminary findings declared in the study headline. "Based on our results, continuous airborne disinfection with far-UVC light at the current regulatory limit could greatly reduce the level of airborne virus in indoor environments occupied by people," Brenner reported. It's the 'occupied by people' proviso that's a game-changer; most ultraviolet light is harmful to humans and used in unoccupied spaces.

How many lamps do I need for my public indoor setting to have this be effective? Is there a ceiling height the Beacon Lamp needs to be in order to not diminish its effectiveness?

With the safety of the Beacon Lamp, there is no particular limitation for the amount of lamps in a room. For example, if you have a high ceiling in a large room, you would simply need to use more lamps. As Dr. Brenner describes, "In this sense this is no

different from designing the regular visible lighting for a room – for visible lighting, a bigger room and/or a room with a higher ceiling simply requires using more lights.”

Can I just have the Beacon Lamp on all day?

Our guidelines suggest that humans should still have limited exposure to this UV light within a given day (maximum of 24 minutes of direct exposure). Given this, we still suggest you follow appropriate timelines to determine how best to use in your given situation. If individuals are not pausing in the lamp light and passing through your space, rather than sitting for an extended period of time, you may be able to keep it on for longer more frequent periods of time.

What scientific peer-reviewed research studies helped you to design and build the Beacon Lamp?

See here for our most currently utilized research studies:

https://humnproject.org/wp-content/uploads/2020/09/Humn_Project_Gathered_Scientific_Research_Studies.pdf