

New Technology Combats Covid in Public Areas

Ultraviolet Technology “kills” Airborne Viruses and Bacteria Around People



Ontario, Kitchener, Mar 4, 2021 (Issuewire.com) - Magec Tech™, a small company in Ontario Canada, has developed an innovative air sanitation technology to combat viruses and bacteria that are airborne, including Sars-CoV-2 that causes COVID-19.

Magec Air™ Sanitation Lamps are developed from a 10-year-old scientific discovery of Far-UVC, ultraviolet light that inactivates viruses and bacteria without harming people, animals, or plants.

Quotes from Dr. David Brenner, Biophysicist at Columbia University: [Dr. Brenner TED Talk on Far-UVC & COVID](#)

- "Far-UVC light efficiently kills viruses, and bacteria too, but all the available evidence, and here's the thing, is that it's safe for human exposure"...
- "overhead, indoor Far-UVC lights could be used to kill viruses in indoor spaces where people are present and reduce the risk of person-to-person transmission of COVID"...

Anthony Baldasaro and Apoorva Yadav have been working on developing Far-UVC for medical devices for a few years. Al Errington was looking for solutions to COVID for the tourism industry when he came across references to Far-UVC. Al Errington asked Anthony and Apoorva if it was possible to develop Far-UVC for airborne viruses and shortly joined the Magec Tech™ team in developing what they now call Magec Air™, devices that can inactivate viruses and bacteria that are airborne in areas up to 50 square metres/500 square feet while people are present. Magec is an ancient name for the sun from a lost culture off the coast of Africa.

Anthony Baldasaro, CEO, and co-founder of Magec Tech™: "Far-UVC inactivates viruses and bacteria that are airborne while people and animals are present effectively reducing person-to-person transfer

and infection as well as animal to person and animal to animal.”

A serious COVID issue is that the virus SARS-CoV-2 that causes COVID can be airborne for lengthy periods of time and variants increase the danger of every virus, including SARS-CoV-2. While current technology does not support safely sanitizing air while people are present, this discovery uses Far-UVC ultraviolet light to quickly and safely inactivate viruses and bacteria while people are present.

Far-UVC is ultraviolet light in the low end of the ultraviolet light spectrum from 207-222nm illustrated in the graphic below. Natural Far-UVC from the sun is blocked by the earth’s ozone layer.

Far-UVC only inactivates viruses and bacteria that are directly exposed, which makes this technology particularly applicable to those that are airborne, including virus variants. The reason Far-UVC is safe for people but “kills” viruses and bacteria is physics, Far-UVC is easily blocked by virtually any organic or inorganic material of any substance. Viruses & bacteria sheath (essentially skin for want of a better word) is as close to non-existent as physically possible. Far-UVC can inactivate viruses and bacteria in the air but cannot inactivate viruses or bacteria if they enter a person’s body, even if it is just in their surface skin. Beneficial bacteria in the skin that are easily destroyed with soap, chemical sanitizers, or inactivated by sunlight are difficult for Far-UVC to reach let alone affect. The physics of Far-UVC makes it safe for people, animals, and plants but very effective against COVID as well as other viruses and bacteria that are airborne like the “common” cold, flu, chickenpox, mumps, measles, whooping cough, tuberculosis, legionnaires disease...

Magec Tech™ does not advocate that Far-UVC replace masks, physical distancing, or vaccines during the current COVID pandemic or any epidemic. COVID-19 is a pandemic and all available technologies, both traditional and new, should be applied. However, we believe Far-UVC can substantially enhance the efficacy of traditional measures of combating contagions by actively inactivating viruses and bacteria that are airborne while people are present in public and workspaces thus reducing the scope and duration of the human, economic and societal costs of COVID.

Optimizing Far-UVC into an effective, cost-efficient technology has been challenging. Government support has been difficult to access because Far-UVC technology is not medical, it is physics. We have however persevered and are now ready to release our technology against COVID and the ancient problems of airborne viruses and bacteria. We are especially interested in patent licensing agreements with lamp and light manufacturers with current capacity that supports substantial and expedited manufacturing for distribution as soon as possible. To support accelerated manufacturing and distribution Magec Tech™ has started a GoFundMe campaign linked on their website MagecAir.com.

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