



October 13, 2014

Infectious and deadly bacteria and viruses in hotels, healthcare facilities, schools, call centers and all types of public places are the target of SteriDesign Corporation's new line of patent-pending non-chemical UV devices:

- SteriBox: Disinfects handheld devices like remote controls, mobile phones, landline phones, tablets and mobile players.
- SteriHood: Disinfects keyboards and mice.

Shared use and multi-user, high touch electronic devices should be areas of concern in healthcare settings. A University of North Carolina Research Study by William Rutala, PhD, MPH found that computers tested positive for a variety of microorganisms such as coagulase-negative staphylococci or CoNS, which is a major cause of bloodstream infections in hospitalized patients plus an additional 13 other types of bacteria, with the most common, after CoNS, being diphtheroids and MRSA. There are 3500 computer keyboards in the University of North Carolina System alone.

Disinfection of the computer keyboard is a challenge with the current methods available. Therefore, most computer keyboards are never cleaned or disinfected within the healthcare environment.

In healthcare today, there is a major green initiative. Millions of disposables are discarded into the waste stream. For less than \$100 a Sterihood or Steribox can be purchased to effectively disinfect these complex devices with no added product to the waste stream.

HOSPITALS AND HEALTHCARE PROVIDERS

The fourth leading cause of death in the United States each year results from Healthcare Associated Infections (HAIs) - more than breast cancer, AIDS, and car accidents combined. Healthcare providers are locked in an ongoing struggle against HAIs which impact over 1.7 million patients in the U.S. each year, especially multi-drug resistant organism (MDRO) based infections, according to the Centers for Disease Control (CDC).

Similar infections are also on the rise in community settings, as the number of MDROs found in public settings each year continues to grow. A decade ago, in 2003, a CDC prospective study suggested that 12 percent of clinical MRSA infections are community-associated, either being contracted at schools, work or community housing, with as many as 98,000 dying each year as a result of these infections.

SteriBox and SteriHood harness the power of a technology developed in the 1930s cleaning air, water and surfaces. Ultra violet light (UV-C) is an energy saving, low power, short UV-C wavelength of light proven safe, cost efficient, environmental friendly, and easy to use.

Ultraviolet rays within the UV-C wavelength destroy pathogens such as viruses, bacteria, mold and mildew. The microorganisms' DNA is damaged causing death of the organism. While UV-C sterilizations' effect and capability have been known for over 80 years, it has proven difficult to develop innovative product designs that are easy to use and cost effective. Most of the current UV systems are large equipment that requires capital investment. They take 20 minutes to be effective and no patient or healthcare provider can be in the room being disinfected. They are designed to be an adjunct to routine cleaning and disinfection.

Steridesign has developed an easy to use cost efficient UV system that disinfects for three years for under \$100. Independent lab testing completed at one of the largest microbiology labs in the USA, EMSL Inc., confirms the SteriDesign SteriHood and SteriBox products are 99.999% effective against those organisms found on shared-use multi-touch electronic device surfaces within 5 minutes including bacterial spores.

In the healthcare environment, SteriBox and SteriHood are used in any place where remote controls and keyboards are used. When installed in a patients' room, SteriBox makes it convenient to routinely disinfect remote control devices, hospital room corded or cordless phone, and any guest personal mobile devices. In the current healthcare system, even though patients, guests, family members, doctors, nurses and others around the patient touch these devices during a patient stay, these devices are only cleaned between patient stays, if at all. The same is true for keyboards in the hospital. Nurses, doctors and other healthcare workers are constantly touching these keyboards.

SteriBox's innovative design allows for two high output UV bulbs to be positioned for complete 360 degree disinfection of remote controls, keyboards and other electronic devices. The EMSL testing of SteriBox validates that the SteriDesign product cleans tough-to-clean three-dimensional surfaces - front, back, sides, top and bottom. The fully vacuum metalized interior surface of the SteriBox ensures that all light rays are propagated around the interior of the box for the greatest leverage of the UV-C technology. SteriBox's design enables easy maintenance through removable and recyclable UV-C light trays, and it features a convenient AC-power outlet, allowing users to recharge mobile phones while they are being cleaned.

At nurse stations and on nurse carts, SteriHood's design enables it to be used with any legacy keyboard. When nurses, doctors and healthcare workers have completed a task at a keyboard, they just pull the SteriHood cover up and out over the keyboard, and the 5-minute disinfection cycle begins; all surfaces of the keyboard will be disinfected to 99.999 percent ~~within 5 minutes~~. If a keyboard is needed before the 5-minute cycle is complete, lifting the SteriHood cover provides immediate access to it; an auto shut-off switch immediately shuts the system down, which restarts again when the cover is re-engaged over the unit. Multi-color LEDs built into SteriHood show bright green to let users know when the disinfection ~~cleaning~~ cycle has been completed, and the keyboard is ready for use. If a keyboard has not been disinfected in any four-

hour time period, the Sterihood's ~~the~~ LED light will blink red. When a SteriHood bulb has been through its allotted number of life cycles, the LED will be on continuous bright red, advising users that it is time to replace the bulb which last for approximately two years.

CONTACT:

David Tofolo

SteriDesign Inc.

29911 Niguel Road, #7211

Laguna Niguel, CA. 92607-7211

PHONE: 1-949-842-8183

EMAIL: davidt@steridesign.com

<https://www.steridesign.com>

KEYWORDS: technology, medical, health

SOURCE: SteriDesign Inc.