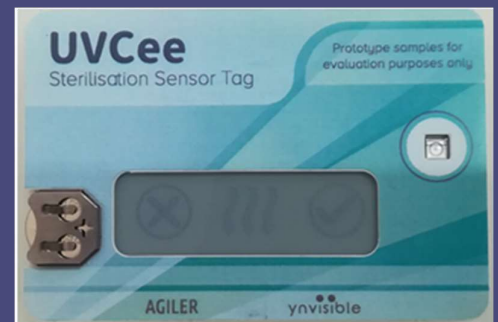


Flexible & Wearable Electronics Application Experiments

Agiler Oy

Agiler Oy develops radio technology related solutions for effective and secure recognition and tracking of goods and people. It offers also IoT related services to other companies.

<https://www.linkedin.com/in/agiler-company-377960187/?originalSubdomain=fi>



Problem to be solved

Especially in the recent times disinfecting/sterilization surfaces and areas has a growing need. There are roughly two means of treating the surfaces to deplete the impact of viruses and bacteria; light and chemicals. When using UVC light to disinfect surfaces it is hard to evaluate the exposure and effectiveness of the treatment. UVC sterilization is done by automated equipment and in absence of humans as it can be harmful. Too much UVC exposure can also stress materials so unnecessarily long UVC exposure is not beneficial. To measure the sufficient UVC exposure from the surfaces, sensors are needed.

Solution provided by SmartEEs

The sensor device prototypes developed in this application experiment concentrates in measuring the UVC sterilization light and its effectiveness based on the intensity and exposure time and providing both a visual indicator as well as a wireless IoT datalink. The data is communicated with commercially available devices. UVC exposure information is displayed through a prototype software application.

Business model & impact

Option 1 is to become a white label manufacturer of the sensor tags and solution and develop channel sales with the established brands of UVC systems in the market. Option 2 will be more straightforward reseller agreement where the reselling partner will purchase branded products from Agiler.

The global sterilization technology market is expected to register a CAGR of 8.20% and is anticipated to reach USD 8,142.61 million by 2023 (Market Research Future, July 2019). It is safe to say that the monetary potential of these technologies is easily millions of Euros.

