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Dr. Boris Kobrin

EPIC Online Technology Meeting on
UV-LED-based Technologies and Applications

Smartphone with Disinfection Function

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Problem:

Smartphones - hot spots for germs

E. Coli, Streptococcus found on smartphone touch screens
(https://time.com/4908654)

COVID-19 can persist on glass surface for up to 9 days
(The J. of Hosp. Inf., v 104,246, 2020)

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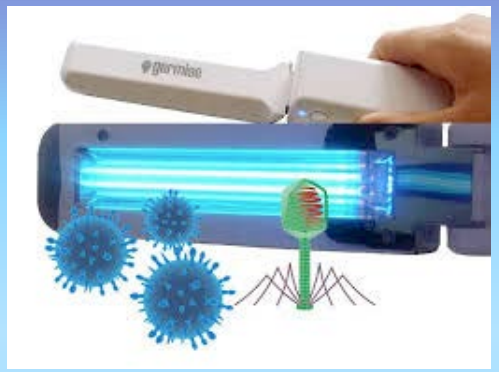
Currently on the market:

UV-C systems for medical facilities

Stationary for rooms

Handheld UV-C wands



Not effective

In 2015 FTC charged two UV wand producing companies for lack of evidence on effective disinfection

Smartphone UV-C disinfection boxes

Requires a box & power

Solution:

Self-disinfecting smartphone

- No equipment required (no boxes, lamps)
- No external power required (self-powered)
- High efficiency (short distance LED-surface)
- Fast process (high illumination density)
- Safe process (auto-UVC lock by an app)
- Multiple designs are patented (integration with display panel, window, separate layer)
- UVC sources: LEDs, min-LEDs, µLEDs
- Display types: LCD, OLED and µLED displays

Display glass is disinfected by UVC light emitted by the phone itself

Patent pending

Thank You

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