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Vayyar, Meditemi to create robot for COVID-19 screening

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Israeli semiconductor company Vayyar Imaging, the world leader in 4D imaging sensor technology and Meditemi (JV of Ogawa and Medisana) a pioneer in robotic healthcare solutions, have partnered to create a more intelligent care robot that provides a range of remote monitoring capabilities, including early detection of COVID-19 symptoms, and alerts for health deterioration and falls.

The solution outfits Meditemi's health robots with Vayyar's 4D intelligent RF sensors to provide fast, robust and reliable screening and monitoring for early stage COVID-19 symptoms. When a person approaches the robot, standing within 1 meter of it, it performs a quick, touchless scan to analyze their heart rate (BPM), respiratory rate (RPM), waveforms and temperature. The robot's dashboard then displays in real-time with very high levels of accuracy, key vital signs, and the COVID-19 infection risk level.

The care robot will restore public confidence by providing fast, automatic screening in any public space, such as building entrances, factories, public transport, airports, trade shows and border crossings, with zero staff involvement or sanitation requirements. In addition, it will enable seniors to be monitored in their residences and alert caregivers of emergency situations or health deterioration.

The intelligent robots can function in any environmental condition, unaffected by line-of-sight, lighting or weather conditions. They will keep our homes safer by detecting pre-emptive signs of health deterioration and alerting for falls, and in the public sector will bring a holistic COVID detection solution that will hasten the return to normalcy and public confidence.