

RTP
ROBOTICS **K1**
LifaBot

RTP
ROBOTICS

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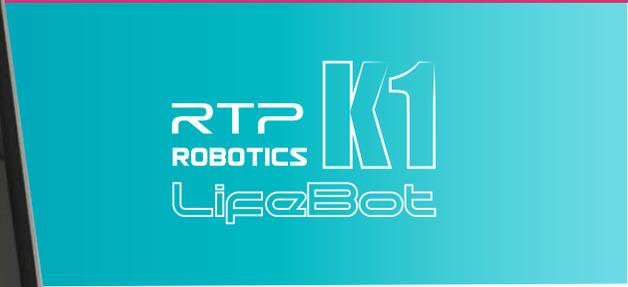
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RTP **K1**
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RTP Co. Ltd, as an active company in the field of Control, Robotics and Printed Electronics, offers its new medical robot, **K1 LifeBot** which can not only assist doctors and nurses in providing patients with effective healthcare, but also considerably alleviate their heavy duties.

The **K1 LifeBot** is exclusively designed to provide a safer medium through which doctors can safely communicate with patients infected by contagious and infectious diseases, including corona. In addition, due to the fully sealed body design, deploying the **K1 LifeBot** is certainly a promising approach for isolated environments in hospitals or any other areas that require minimal human traffic.

At RTP, we believe in innovation, science and technology as key elements that can face various challenges in different fields. If you have any questions, please do not hesitate to contact us.



Key Functions

of K1 LifeBot robot

- Equipped with different sensors to measure patients' vitals including "temperature", "heart beat rate" and "blood oxygen level"
- Enabling doctors to communicate with their patients via video calls
- Delivering food and medicine to multiple rooms in each run thanks to the **K1 LifeBot** shelf-like structure



Remote Control: **K1 LifeBot** is controlled using an operator benefiting from the Robot's navigational tools.

ROS Melodic Morenia Software: has been utilized for robot programming

Multi Agent Function: enables the control unit to take control of multiple **K1 LifeBot** robots at the same time.



While the robot is moving, anti-slip pairs on the trays prevent food, drink, medicine, etc. from falling.

Moreover trays can be easily removed and reset to facilitate disinfection of the robot.



Fully sealed body prevents the internal area from being contaminated.

Main Features

of K1 LifeBot robot

Using stereo vision would not only provide the operator with a perfect experience of the robot surroundings, but also it would assist in preventing robot collision with the help of obstacle detector sensors located in the rear and side parts of the **K1 LifeBot** lower body.



Main Features

of K1 LifeBot robot

Thanks to the non-contact infrared thermometer sensor, patients' temperature is measured.



Using the pulse oximeter sensor, other vital parameters of the patient, such as heart rate and blood oxygen level, are measured.



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LifeBot

Product Characteristics

Size	520 x 525 x 1080 mm
Weight	40 Kg
Material	ABS/ Aluminum alloy
Charging Time	6 H
Endurance	6 H
Tray bearing	5 Kg
The maximum slope angle	15 °



Application Spotlight

of K1 LifeBot robot

In sum, the outstanding features of the K1 LifeBot medical robot, including patient monitoring, telecommunication and fully sealed body structure, make it a great choice to be considered for various hospital applications such as patients' rooms, laboratories, different sort of isolated rooms (class S, N, P and A) and even clinics.



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