Description
Spirometer-Fan is designed for the children to improve the breathing capacity during the play. This device also can be used by the patients of the lung excise for the rehabilitation after the surgery. The design characteristic of this device is small, interest, and avoided the inter-infection. The user blow over the fan of the device, and the centrally bearing will be turn around. Meanwhile, the electric power will be generated by the bearing for the sensors of the infrared. All system will calculate the flow rate. The range is 0–1000 ml/sec. Apply the physics concept of the moment, we will adjust the arm of the fan, and it is easy to adjust the result of the blow force on the fan. The Bearing design can keep the speed of the fan to avoid the rotation rate drop when user changes the breath. The constant rotation rate will encourage the children and patient to keep the constant flow rate.

How to use
1) We will adjust the arm of the fan to adjust the result of the blow force.
2) Blow over the fan of the device.
3) Looking at the rotation rate of the fan, and flow rate of the infrared sensors.
4) The Bearing design can keep the speed of the fan to avoid the rotation rate drop when the user changes the breath. It can be adjust the excise time by the condition of the children or patient.

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