Blood Oxygen Saturation Detection Method And System

Abstract

The present application relates to detection technology, it provides a detection method and detection system of blood oxygen saturation, this method includes: controlling two parallel light emitting diodes to emit a red light and an infrared light periodically to a finger; detecting the red light and infrared light passing through the finger and converting them into a red light electrical signal and an infrared light electrical signal respectively; separating pulsating components from the two electrical signals to obtain a separated variation of red light in one cycle and a separated variation of infrared light in one cycle; calculating the blood oxygen saturation based on the variations of red light and infrared light; amplifying and filtering the blood oxygen saturation prior to converting the blood oxygen saturation into digital signal by analog-to-digital converter.

Figure 1