

Vital sign detection device, system and data processing method

Abstract

5 The vital sign detection device of the present invention includes one or
more sensors, which can detect a plurality of vital sign signals of a test subject
in a non-contact manner, and output corresponding a plurality of vital sign
information, thereby achieving fast and accurate vital sign detection. The
invention also relates to a combined multi-functional detection device, which
10 includes a camera, a radar sensor, an infrared sensor and a sensor driving unit,
used for measuring vital signs. The invention also provides a non-contact blood
pressure measurement method and device. The method includes receiving
radar echoes and video signal streams at first and second parts, extracting first
and second pulse wave signals therefrom, obtaining a measured pulse wave
15 transit time, matching the measured pulse wave transit time with a reference
pulse wave transit time, and obtaining a blood pressure value.

(FIG. 5)