CLAIMS

1. A method for integrating vital signs monitoring with vehicle control, applicable to a vehicle control unit of a vehicle, and comprising steps of:

receiving two or more vital-sign signals generated by a sensing device, wherein said vital-sign signals include a blood pressure, a pulse rate, a body temperature, a respiratory rate, and a blood oxygen saturation;

judging a driving status according to two or more threshold values of said vital-sign signals, and judging a danger level of said driving status once said driving status is judged bad;

judging the danger level of said driving status to be a third danger level when each of said vital-sign signals exceeds a third threshold value thereof, and accumulated times reaching a threshold value;

judging the danger level of said driving status to be a second danger level when each of the blood pressure, the body temperature, and the blood oxygen saturation is between a second threshold value and the third threshold value thereof, and accumulated times reaching a threshold value;

judging the danger level of said driving status to be a first danger level when each of the blood pressure, the body temperature, and the blood oxygen saturation is between a first threshold value and the second threshold value thereof, and accumulated times reaching a threshold value; and

controlling said vehicle according to the danger level of said driving status.

2. The method of claim 1, wherein said sensing device is a wearable sensing device that senses two or more of the driver's blood pressure, the pulse rate, the body temperature, the respiratory rate, and the blood oxygen saturation for generating said vital-sign signals.

3. The method of claim 1 or 2, wherein said vehicle control unit integrates a motor control unit (MCU), a battery management system (BMS), an electric power steering control system, an electric cooling control system, an in-vehicle charger, and a direct-current (DC) voltage converter.

4. The method of any one of claims 1 to 3, wherein said vehicle control unit controls a

human-machine interface unit to output a reminding message in said step of controlling said vehicle according to the danger level of said driving status.

5. The method of any one of claims 1 to 4, wherein said vehicle control unit controls a human-machine interface unit to output a warning message in said step of controlling said vehicle according to the danger level of said driving status.

6. The method of any one of claims 1 to 5, wherein said vehicle control unit controls said vehicle to maintain a safe distance from vehicles around and displays light signs in said step of controlling said vehicle according to the danger level of said driving status.

7. The method of any one of claims 1 to 6, wherein said vehicle control unit further triggers a communication device to transmit an emergency message to a first-aid unit in said step of controlling said vehicle according to the danger level of said driving status.