

## HARDWARE AND SOFTWARE FOR DIAGNOSTICS OF HUMAN CARDIOVASCULAR SYSTEM USING METHOD OF OPTICAL PLETHYSMOGRAPHY OF HIGH RESOLUTION

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**Annotation.** *The article presents a method of high-resolution optical plethysmography which may be used for diagnosis of the cardiovascular system. The article presents the principle of signal photoplethysmogram creating. The most used in clinical practice photoplethysmogram parameters are determined. The article describes the basic technical requirements for the design of hardware and software for plethysmographic complex. The structural diagram of the optical high resolution plethysmograph are presented and explained. The article describes possibilities of using the plethysmographic complex in clinical practice.*

**Keywords:** photoplethysmography, plethysmograph, high resolution, diagnostics of human cardiovascular system, the method of high-resolution optical plethysmography.

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