**软件需求规格**

**(Software Requirement Specification)**

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{文档背景说明：

**The Software Requirements Specification (SRS) documents the requirements for the software.This typically includes functional, performance, interface, design, developmental, and other requirements for the software. In effect, this document describes what the Software Device is supposed to do. Examples of some typical requirements that would be included in a SRS are described below. For Software Devices that are identified as Minor Level of Concern, we recommend that you provide only the summary functional requirements section from the SRS,including identification of off-the-shelf software. For Software Devices that are identified as Major or Moderate Level of Concern, we recommend that you provide the complete SRS document Hardware Requirements**

**Hardware requirements generally include:**

* **· microprocessors**
* **· memory devices**
* **· sensors**
* **· energy sources**
* **· safety features**
* **· communications.**

**Programming Language Requirements**

**Programming language requirements include program size requirements or restrictions, and information on management of memory leaks.**

**Interface Requirements**

**Interface requirements generally include both communication between system components and communication with the user such as:**

* **· printers**
* **· monitors**
* **· keyboard**
* **· mouse.**

**Software Performance and Functional Requirements**

**Software performance and functional requirements include algorithms or control**

**characteristics for therapy, diagnosis, monitoring, alarms, analysis, and interpretation with full text references or supporting clinical data, if necessary. Software performance and functional requirements may also include:**

* **· device limitations due to software**
* **· internal software tests and checks**
* **· error and interrupt handling**
* **· fault detection, tolerance, and recovery characteristics**
* **· safety requirements**
* **· timing and memory requirements**
* **· identification of off-the-shelf software, if appropriate.}**

*1* ***介绍****(****Introduction****)*

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***1.2 目的(Purpose)***

***1.3 术语和定义(Terms and definitions)***

***2 产品概述(Product description)***

***3.软件项目概述(Software project description)***

1. ***硬件需求(Hardware requirement)***
2. ***编程语言需求(Programming Language Requirements)***
3. ***界面需求(Interface Requirements)***
4. ***软件性能和功能需求(Software Performance and Functional Requirements)***