

ICS 07.040

A 75

Record No: 28969-2010

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**PROFESSIONAL STANDARD OF THE PEOPLE'S
REPUBLIC OF CHINA**

中华人民共和国测绘行业标准

CH/T 2009-2010

**Specification for global positioning system real-time
kinematic (RTK) surveys**

全球定位系统实时动态测量（RTK）技术规范

Issued on March 31, 2010

Implemented on May 01, 2010

Issued by State Bureau of Surveying and Mapping

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Foreword

This Standard is proposed and under the jurisdiction of State Bureau of Surveying and Mapping.

The responsible drafting organizations are Zhejiang Bureau of Surveying and Mapping and Chongqing Institute of Surveying and Mapping of SBSM.

The chief drafting staff of this standard includes Luo Guangfei, Yang Hong, Ge Zhonghua, Liao Zhenhuan, Wen Hongfeng, Li Liang and Hu Youshun.

Specifications for Global Positioning System Real-time Kinematic (RTK) Surveys

1. Scope

This standard specifies the technical requirements and methods of plane control survey, vertical control survey and topographic survey which apply global positioning system real-time kinematic survey (RTK).

RTK plane and vertical control surveys are applicable to the field digital mapping and photogrammetric survey and the basic control points for remote sensing. RTK topographic survey is applicable to the mapping control survey for field digital mapping and data collection of detail points.

2. Normative references

The articles contained in the following documents have become this document when they are quoted herein. For the dated documents so quoted, all the modifications (Including all corrections) or revisions made thereafter shall be applicable to this document.

GB/T 18314 Specifications for global positioning system (GPS) surveys

CH/T 2008 Specifications for construction of the continuously operating reference stations using global navigation satellite system

CH 8016 Specification for check off and test of GPS receiver of surveying model

3. Terms and Definitions

For the purpose of this standard, the following terms and definitions shall apply.

3.1

Real time kinematic

RTK technology is the carrier phase real-time kinematic positioning technology which is the combination of global positioning system and data communication. It can provide the real-time 3D positioning result of surveyed station in the designated coordinate system.

3.2

Antenna height

Refer to the distance from the center of antenna phase of receiver to the marked plane of



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