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**Calibration Specification for Global Positioning
System(GPS)Receiver
(English Translation)**

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Global Positioning System (GPS) receiver (geophysical and navigational) calibration specifications

1 Scope

This specification applies to geodetic and navigational Global Positioning System (GPS) receivers of various accuracy (simplified below) Calibration of the GPS receiver).

2 Citations

This specification refers to the following documents.

JJF 1001-1998 general measurement terms and definitions JJF 1059-1999 Measurement Uncertainty Evaluation and Representation GB/T 18314-2001 Global Positioning System (GPS) Measurement Specification GB/T 18214.1-2001 Global Navigation Satellite System (GNSS) Part 1. Global Positioning System (GPS) Receive equipment performance standards, test methods and required test results Use of this specification should be done with the current valid version of the above cited documents.

3 terms

3.1 observation period (observation session) the station starts to receive the satellite signal to stop receiving, and the time interval of continuous observation is called the observation period.

segment.

3.2 geometric accuracy factor [geometric dilution of precision (GDOP)] the amplification factor of the positioning error due to the geometric relationship between the user and the selected constellation. The smaller the GDOP value, the finer the positioning the higher the degree.

3.3 Ultra-baseline (mini-baseline) Refers to the standard length of the standard value in the range of 0.2m ~ 24m.

3.4 RTD measurement (real time differential) Real-time pseudorange differential measurement.

3.5 RTK measurement (real time kinematic) Real-time dynamic measurement.

3.6 Antenna phase center (antenna phase center) Antenna phase center (average antenna phase center average of antenna phase center) refers to the microwave antenna Electrical center. The theoretical design should be consistent with the geometric center of the antenna. The difference between the phase center of the antenna and the geometric center is called the antenna.

Phase center deviation.

3.7 World Geodetic Coordinate System 1984 [world geodetic system 1984 (WGS-84)] Based

on the precision ephemeris NSWC-9Z-2 corresponding to WGS72, the US Department of Defense adopted 1980 large ginseng A geocentric coordinate system established by the test and BIH1984.0 system orientation.

The GPS satellite ephemeris is based on the WGS-84 geodetic coordinate system. The coordinates and relatives of GPS single point positioning