## SPECIFICATIONS

| | S760 | S760-2013 |
|---|---|---|
| **GNSS** | | |
| Channels | 220 | |
| GPS | L1,L2,C/A with carrier phase smoothing | |
| GLONASS | L1,L2 C/A | |
| GALILEO | E1[2] | |
| QZSS | L1 C/A,L1 SAIF,L2C | |
| SBAS | L1 C/A supporting WAAS/EGNOS/MSAS | |
| BDS(Optional) | B1,B2,B3 | |
| Data Output | NMEA-0183, TSIP | |
| I/O Protocol | CMR,CMR+,sCMRx,RTCM2.1,2.2,2.3,3.0,3.1 | |
| Update rate | 1Hz | |
| Reacquisition | <1s | |
| Cold start | <30s | |
| **System** | | |
| Operating system | Windows Mobile 6.5/6.1 | |
| CPU | Marvell 806 MHZ | 1GHz |
| Memory | 256MB RAM, 512MB NAND | |
| Extendable | 32G | |
| Software | Fully compatible with Carlson SurvCE and FieldGenius | |
| **Accuracy** | | |
| Single point positioning | 2m | |
| SBAS | 0.50m Horizontal<br>0.85m Vertical | |
| DGNSS | 0.25m+1ppm Horizontal<br>0.50m+1ppm Vertical | |
| Post Processing | <10cm | |
| Single Baseline RTK(<30km) | 0.008m+1ppm Horizontal<br>0.015m+1ppm Vertical | |
| **Multimedia** | | |
| Integration | Speaker&Microphone integrated | |
| Built-in MEMS | None | Built in Electronic compass,Barometer,Gravity sensor |
| Mobile phone | Voice call and MMS | |
| Camera | 3.0 Megapixel | 5.0 Megapixel |
| Display | Resolution 640x480, 3.7 inch touch screen | |
| **Communication** | | |
| Data interface | Mini USB2.0 | |
| Wireless | GSM,GPRS,EDGE | |
| 3G | WCDMA,CDMA2000 | |
| Bluetooth | Bluetooth V2.0 Class2, Support EDR | |
| Wireless LAN | 802.11b/g | |
| **Electrical** | | |
| Battery type | 4200mAh, Li-ion battery built in, 7.4v | 5400mAh, removable Li-ion battery, 3.7v |
| Battery life | Typically 10 hrs or more | |
| **Environmental** | | |
| Operating temperature | -20℃~+60℃ | |
| Storage temperature | -30℃~+70℃ | |
| Shockproof | Withstand drops from 1.5m to concrete | |
| Waterproof/Dustproof | Tested to IP65 standard | Tested to IP67 standard |
| Humidity | Up to 95% humidity | |
| **Physical** | | |
| Dimensions(mm) | 215(L)x97(W)x57(H) | 225(L)x95(W)x35(H) |
| Weight | 0.71kg | 0.66kg |
| **Accessories (optional)** | | |
| | Cane ultra-light carbon fiber Bracket<br>Additional battery with the same characteristics of the original equipment. | |
| External antenna | Supporting L1/L2 | |


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# S760 Series

## Dual-Frequency Handheld RTK Receiver

## KEY FEATURES

**XSTR System**
The CPU adopts strong and stable high-speed CPU, with high standard RAM internally installed and can use big capacity of extendable memory.

**High accuracy positioning**
The integrated surveying-typed multi-constellation GPS mainboard, professional antenna, and data collector, make S760 a real all-in-one dual-frequency handheld RTK receiver.

**Wireless LAN**
Built-in wireless LAN connectivity comes standard. Use your device in a typical hotspot to surf the web, or e-mail files back to office, and realize the CORS compatibility easily.

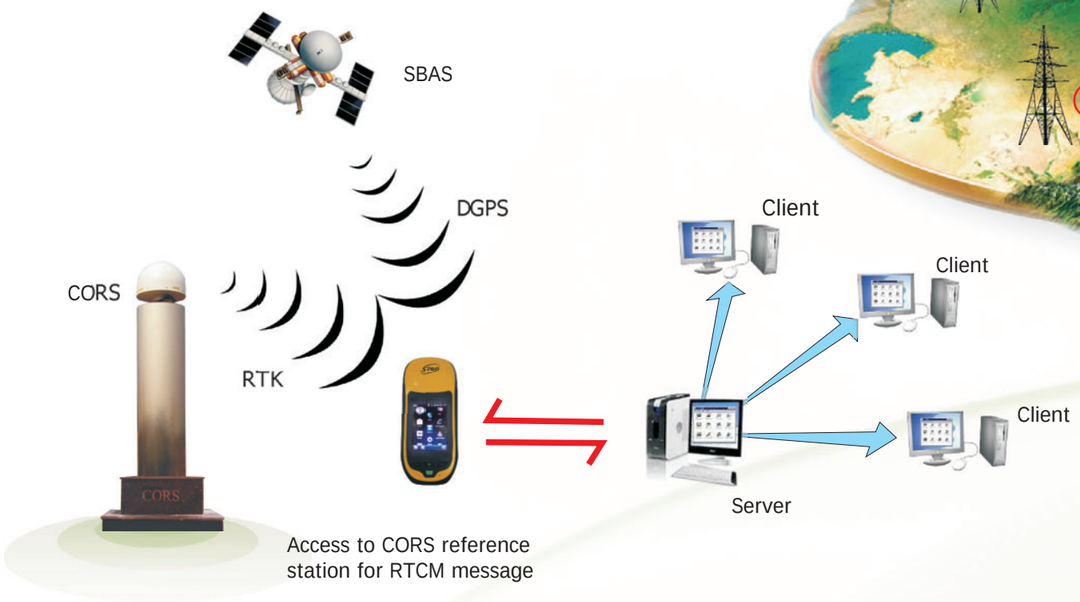

**Extendable System Platform**
The Windows OS allows the unit, equipped with open SDK flexibilities, to support your third-party software R&D and customized GIS application software.

**Super-long working time**
Low-power consumption host configured with big capacity battery ensures the continuous whole-day field work.

**External antenna**
Plug and play of external dual frequency antenna makes points be more accurate, apply to Static survey, Stop&Go and RTK working mode.

## WORKING MODE

Track SBAS satellites for RTK (Real Time Differential)




Access to CORS reference station for RTCM message

## SOFTWARE


**GIStar** (Default)
Completely new professional and user-friendly onboard software, GIStar, is an ideal solution for GIS data collection, yet very easy to use and convenient for data communication. Equipped with sharply enhanced software GIStar, the device can meet diverse needs of surveyors, contractors, engineers and mapping professionals.

**Data dictionary editor**
Besides data acquisition or stake-out in traditional survey, this smart unit allows the users to add or edit entity and property in the **Data Dictionary** option, which enables it a real GIS handheld with full capacities.

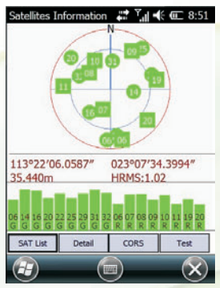

**Carlson SurvCE** (Optional)
With international NMEA output, this device is ready for installing 3rd-party software. To meet diverse needs, SurvCE combined advanced functionality, highly graphical and intuitive messages, ease of use, sheer capabilities of the data collection, making your RTK job more powerful.

## WIDE APPLICATIONS



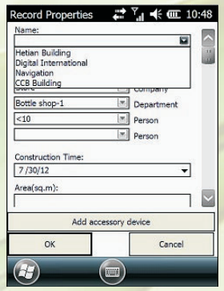

This handy unit is widely used in variety of fields, eg.Forestry investigation, Agriculture management, Land resources investigation, Underground pipe and cable detection, Geodetic control survey, etc. Associated with the internal modem, this unit provides a complete hardware solution for GIS users who have high accuracy database requirements.

## INTERFACES




Satellites status


Data collection

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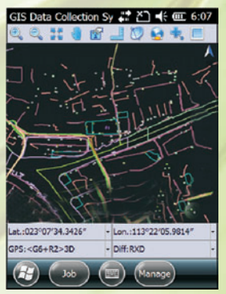
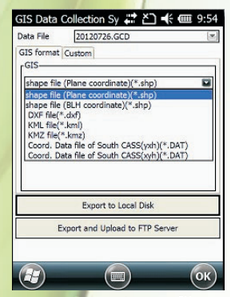



Graphics import




Save trace file