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# GT-31 Specifications (v1.1)

| Navigation features | | |
|---|---|---|
| Waypoints/icons | 1000 with name and graphic symbol | |
| Routes | 20 with max. 125 waypoints each | |
| Tracks | 1 with max. 8192 waypoints | |
| Data logger | 20480 points with First-In-First-Out function | |
| Trip computer | Odometer, trip timer, current speed, maximum speed, sunrise, sunset… | |
| Alarms | Monotone; LED | |
| **GPS performance** | | |
| Chip | SiRF Star 3 High Sensitivity | |
| Frequency | L1 1575.42MHz, C/A code | |
| Channels | Support 20 channels | |
| Update rate | 1 Hz | |
| Acquisition time | Hot start (Open Sky) | < 2s |
| | Cold start (Open Sky) | 35s (typical) |
| Position/Velocity | 10m (2D RMS)/0.1 m/s without SA (autonomous mode) | |
| Dynamics | Speed (max.) | 515 m/s |
| | Altitude (max.) | 18000 m |
| | Acceleration (max.) | 4 g |
| Differential GPS | SBAS | |
| Antenna | Built-in patch antenna | |
| **Power** | | |
| Battery type | Built-in lithium-ion polymer rechargeable battery. | |
| Operation time | Continuous | Up to 41 hours (backlit off) |
| | Low power mode | Up to 62 hours (backlit off) |
| Charge time | 4 hours | |
| Charge connector | USB mini-B | |
| **Interfaces** | | |
| Language | ENGLISH, FRENCH, 繁體中文, 简体中文, PYCCKO, NORSK, ESPANOL, EESTI, DEUTSCH, PORTUGUES, ITALIANO, NEDERLANDS, POLISH, LATVIESU, SUOMI | |
| Communication | USB | |

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| Data format | NMEA 0183 | |
| --- | --- | --- |
| | SiRF binary format | |
| | (firmware upgradeable) | |
| Memory card | SD/MMC slot | |
| **Physical** | | |
| Size | 90H x 58W x 24.5D mm | |
| Weight | 97g | |
| Display | Mode | Black/White, FSTN, Transflective |
| | Size | 1.5 inch (33W x 21H mm) |
| | Resolution | 128W x 64H pixel |
| | Backlit | LED |
| **Environmental** | | |
| Operating temp. | -20 ~ +60 ℃ | |
| Storage temp. | -20 ~ +70 ℃ | |
| Water proof | IEC529 IPX7 and floatable | |
| EMC standard | CE, FCC | |
| **Accessories** | | |
| Standard | Quick start guide | |
| | CD (user manual, driver and utility) | |
| | USB interface/charge cable | |
| Optional | Universal travel charger (pins for US/Europe/UK) | |
| | Car charger | |
| | Bike mounting kit | |
| | Arm strap | |

<Specifications are subject to change without notice>

## Document change list

- V1.0 to V1.1 (Applied to the device with serial number after 832001650)
    - Change typical "cold start time" from 38s to 35s.
    - Change "operation time" in continuous mode from 31 hours to 41 hours.
    - Change "operation time" in low power mode from 41 hours to 62 hours.