

Function & Performance Specification of Handheld GPS Receiver

(Model : GPS1271)

1 Performance

Item	Nominal value	Minimum	Maximum	Remarks
* Operation current	100mA	70mA (trickle power)	120mA (with backlight)	
Battery operation voltage	3V	1.9V	3.5V	
Power leakage		5uA	15uA	
Standby battery current	10uA	5uA	15uA	
*Standby duration	16 hours	12 hours	20 hours	
Satellite acquisition sensitivity	-125dbm			
Satellite tracking sensitivity	-135dbm			
Accuracy (No SA)	25m			2 DRMS
First acquisition	<120s			
Velocity	0.1m/s			
* Position update rate	1s	1s	2s	
Operation temperature		-10°C	70°C	
Waterproof degree	IPX4			
LCD screen	105*160dot	34.62±0.01mmX52.77±0.01mm (visible area)		
Dimension	141 ± 0.5 (H) × 60 ± 0.5 (W) × 32.5 ± 0.5 (D) mm			
Weight	≤200g (without batteries)			

Notes : Items with “ * ” is better than model GPS127.

2 Functions

Item	Description	Remarks
Locating	Provide date, time, longitude, latitude and altitude information	Updating each 1 second
Velocity measurement	Measure and display the velocity at real time	Updating each 1 second
Track navigation	Record up to 10 tracks, and 1146 waypoints on each track with specific longitude and latitude	
Track distance	Calculate covered track distance	
* Proportion calculation	Calculate happened track proportion at real time(no need of close graphics)	
Track record	Record any tracks, and trace them back	
Tracking	Display the tracks at real time as the user is walking on	
Track back	Navigate the user to trace back along any recorded tracks	
Route,	Create, save and edit up to 30 routes	
Route distance	Calculate any distance between any two waypoints on a route and the whole distance of a route	
Route navigation	Navigate the user by route	

Waypoints	Create, record and edit up to 500 waypoints	
* Waypoints distance	Calculate and display distance between any two waypoints	
Waypoints navigation	Navigate the user from any one waypoint to another waypoint directly	
Alarm	Make alarm when passing a pre-set dangerous point, navigation destination, a waypoint, anchor, or when the user goes apart from the navigation route	
Coordinates	Provide up to 117 coordinates for user's reference	
LCD gray degree	Adjust the LCD gray degree to achieve a comfortable visual effect under different temperatures	
Battery power	Indicate battery power level	
Satellite status	Indicate the satellites position and GPS signal strength	
Electronic compass	Indicate the movement orientation and direction by a electronic compass	
Data storage	Store data up to 10 years with an embedded lithium battery	
Buttons	B sounds whenever pressing buttons	
LCD backlight	Manually or automatically switch on or off the LCD backlight for a clear display at darkness	
* Serial port	Provide data exchange function between the unit with personal computer	
* TrackBase software	Provide a software tool to download all data from unit onto computer, and edit and save them	
* Standard data	A standard data output in NMEA (0183) format	

Notes: Items with “ * ” are new function design compared with GPS127.