

GW-52 Specifications

Watch Function		
Clock	Auto sync with GPS time	
Alarm	Buzzer and vibrator	
Stopwatch	Yes	
Kitchen timer	Buzzer and vibrator	
GPS Performance		
High sensitivity GPS	Yes	
Japan QZSS	Yes	
Differential GPS	SBAS	
Data logger	<ul style="list-style-type: none"> - data logging rate: 1Hz, 5Hz, or "smart" rate - log memory: 12,000 records in circular buffer - log record includes: UTC time, position, altitude, Doppler Speed over ground, Doppler vertical speed, satellites used, Standard Deviation of Speed (SDOS) 	
Speed	<ul style="list-style-type: none"> - Speed sample resolution: 1 cm/s - SDOS resolution: 1 cm/s - measured speed range 0-1000 km/h - typical accuracy of 10s average speed measurement: ~3 cm/s, 99.7% certainty (speed>80km/h, receiver has direct line of sight of all satellites above horizon*). - Accuracy of specific measurement can be determined from SDOS of speed samples used to compute average speed. 	
Power		
Battery type	Rechargeable lithium-ion	
Operation time	Time function	Up to 1 year
	GPS function (1Hz mode)	8 hours
	GPS function (5Hz mode)	7 hours
Charge time	2.5 hours	
Interfaces		
Language	English	
Touch buttons	Yes	
Communication	Micro USB	

Physical		
Size	68.0 (W) * 53.5 (D) * 21.5 (H) mm	
Weight	57 g	
Display	Mode	Black/White, FSTN, Transflective
	Size	29mm diameter
	Resolution	128W x 64H pixels
	Backlit	LED
Environmental		
Operating temp.	-20 ~ +45 °C	
Storage temp.	-20 ~ +60 °C	
Protection	IEC 60529 IPX7	
EMC standard	CE, FCC	
Accessories		
Standard	Micro USB cable	

<Specifications are subject to change without notice>

(*) Direct line of sight view of all satellites is required for accurate speed measurement due to physics of Doppler Effect. Blocking direct line of sight even for some satellites has significant detrimental effect on speed measurement accuracy, causing large SDOS of speed samples.

Document change list

Revision 1.0

- First release on January 05, 2015

Revision 1.0 to revision 1.1 (April 27, 2015)

- Update the operation time for 5Hz GPS
- Change the Protection from IP54 to IPX7

Revision 1.1 to revision 1.2 (July 02, 2015)

- Update Data logger and speed spec