

MAINNAV Technology Co., LTD
5F., No.83, Xinyi Rd., Banqiao City, Taipei County 220, Taiwan (R.O.C.)
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MG-600W GPS Sport logger



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MG-600 Feature

MG-600 is the brand-new and high sensitivity GPS device for cyclist's .It can track speed, distance, time, odometer, GPS coordinates and elevation. This compact cycle meter delivery the essential functions plus data logging and light sensor. You could simply switch to three modes—Bike mode, GPS mode and setting mode.

While riding, MG-600 showing exactly your speed, distance, trip time and altitude. Also, it records all your data for you checking. Data logging could record your complete route for view on Google Earth/map. For saving data, you could record your tracks in different purpose – General, working, sport and traveling. For saving data, MG-600 saves tracks in every second while moving. If you in motionless, the device save tracks in every one minute,

Other useful function included speed behind reminder .When your current speed lower than Average speed , the screen will flash in every 3 seconds to alerts you catching up the speed. Light-sensor-- it will turn of back-lit automatically when it's nightfall or in dark place. Bluetooth is optional for GPS receiver

The MG-600 is easy to attach on handle bar of your bike. Start with your cycling –Simply turn of the device and GPS will get fix in several seconds and go. Mainnav software also provide detail analyze of your speed and altitude by graphic. You could easy to view each record.

A Specification-- Physical	
Unit size :	78x49.75x17.5 mm
LCM:	32x30.5 mm
Weight	70g
Enable-GPS	ST Chip set
Interface	Mini USB 2.0
Battery life	Normal use 24h,
Weather proof	IPX6
Memory	32Mb
Record tracks	260,000 waypoints
Environmental chrematistics	
Working temperature	-20°C to +85 °C
storage temperature	-55°C-20 +75°C.
input voltage	5.5 ± 0.5VDC
GPS	
Tracking (ST Chip set)	up to 12 satellites
Reacquisition	0.1 sec, averaged
Hot start	6 sec, averaged
Warm start	38 sec, averaged
Cold start	42 sec, averaged
DGPS (Differential GPS) or WAAS / EGNOS ON (Built by demand)	
Position	1 ~ 5 meter, typical
Velocity:	0.05 meters/second, typical
Dynamic Conditions	
Altitude	18,000 meters (60,000 feet) max
Velocity	515 meters / second (1000 knots) max
Jerk	20 meters/second, max
Acceleration	4 G max
Battery	
Power consumption	45 mA/h (back-lit off) rechargeable lithium-ion 1100mAh
GPS fix	Normal use 24 hours
Backlit on	17 hours backlit

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BT GPS+back-lit	13 hours
Interface	
Bluetooth	2.0 (Only for MG-600W)
USB Version	2.0 (mini Din 5 pin)
Transmission rate	4800~38400
NMEA 0183 Version 2.2 ASCII output (GPGGA, GPGLL, GPGSA, GPGSV, GPRMC, GPVTG).	
Real-time Differential Correction input (RTCM SC-104 message types 1, 5 and 9). (Optional model)	
B Feature	
Bluetooth Receiver (BT optional)	
Saving tracks data for four different purpose— General, works, traveling and sport.	
Cycle meter	
Touch pad for scan function.	
Bike mounting	
Track interval setting	
Mainnav software application--export your data as a KML file which opens up on Google Earth.	
Back-lit adjusting--level 1 to 5	
battery indicate	
Memory indicate	
POI recorded --record your favorite spot , show exactly position on Google Earth/Map	
Light Sensor -- The device will automatically light-on when you stay in dark place or cross tunnel.	
Personal training -- Behind reminder	
Support metric , imperial and Nautical	

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C. Function

Bike mode – Speed , Altitude , Time , ODO , Trip time , Trip distance , Maximum speed and average speed

GPS mode—tracks data , GPS info , POI list ,

Setting mode – time zone, unit format, log timer, log content, Auto log , Contrast, Auto back-light,F/W version , Behind reminder , Bluetooth , Exit

Data logger— saving travel /sport route. Check logging data , Please see the CD--Install Mainnav software ,USB Driver and Google Earth.

Bluetooth Receiver (optional)

D. Certificate

R&TTE / CE

This device complies with ETSI EN 301 489-1V1.8.1, ETSI EN 301 489-3 V1.4.1 ETSI EN 300 440-1,300 440-2

FCC Fcc47 CFR Fcc Part15B

This device complies with Part 15C, Part 15B and ID Application of the FCC rules. Operation is subject to the following two conditions:

This device may not cause harmful interference.

This device must accept any interference received, including interference that may cause undesired operation.

Warranty – one year

E. Standard package

Device of MG-600

Mainnav software application

Bike mounting

USB data cable

Travel charger

Rechargeable battery, 1050mAh

Warranty card

F.Operation





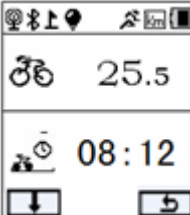

a Buttons



1. Power on /off (reset) , Back-lit on/off
2. Touch pad – press to switch function. Return to previous page. Exit
3. POI recorded. **Turn on /off Data logger (press 3 seconds)**
4. Touch pad --Scroll thought menu. Press to highlight the function. Press to select option and to acknowledge message.
5. USB Port – export data and charge the device

b. Icon introduction






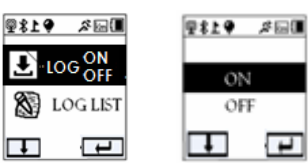


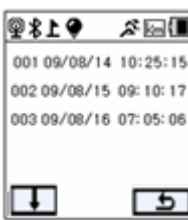
GPS Unfixed	GPS fixed	Bluetooth On	Backlit-on indicate	Data logger-on
Charge Data/ transfer	Unit format indicate	Battery indicate	Data saving file indicate (sport) (four file saving data,Sport, General , travel and work)	The device connect to PC
Next	EXIT	ENTER		

G Get starting		
Operation	Screen	Indicate
Main menu -- Bike mode GPS mode Set mode		On main page , there are 3 mode could choose, Press Next to scan each function.
Switch to Sport and press Enter to view first page There are Six function in Sport mode		Showing current speed Showing Altitude
Press Next to view second page		Showing current speed Showing current time
Press Next to view third page		Current speed ODO
Press (Next) to fourth page		Current speed Trip time(riding time)
Press (Next) to fifth page		Current speed Trip distance

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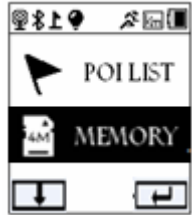
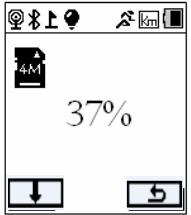



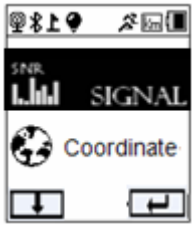
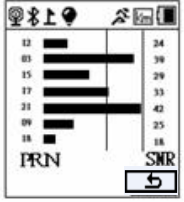
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<p>Press (Next) to sixth page</p>		<p>Current speed Maximum speed</p>
<p>Press (Next) to seventh page</p>		<p>Current speed Average speed</p>
<p>Press (Next) to eighth page</p>		<p>Showing all data</p>
<p>Switch to main manual Press next to enter GPS mode</p>		<p>in GPS mode , you could check log info and GPS info</p>
<p>Press Enter to access LOG Info</p>		<p>LOG info -log list, memory ,POI</p>
<p>Enter Switch --Data logger on or off . Record data -on Stop recording -off</p>		 <p>Press POI button 3 seconds -Data logger on/off</p>
<p>Enter log list You could check your logging data</p>		

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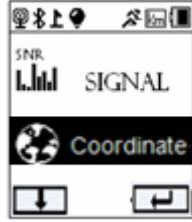
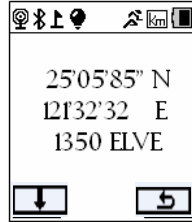


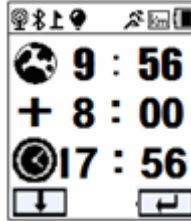




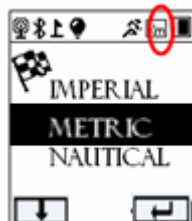


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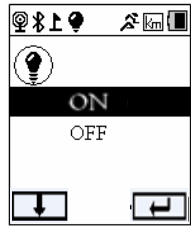




<p>Switch to Log Info ,press next to view POI list . Press Enter to check recorded Spot.Each your record POI will be list here by time , press exit to leave</p>	 <p>Record POI in any page , Once the GPS fix, press POI button to save POI. (you could save POI in each page)</p>	
<p>Switch to Memory Memory percentage indicate Display the usage of your memory</p>		 <p>0% means full usage Press Exit</p>
<p>Delete the memory Press Enter to delete the memory. When press YES all logging data will be delete including POI list</p>		 <p>Device will count 1% to 100% and finish delete</p>
<p>Switch to GPS Info and enter it. There is Signal and Lat/Lon info</p>		<p>In GPS mode you could check Signal and Lat/Lon info</p>
<p>Check out GPS signal in here, mark signal and enter it.</p>	 <p>View-GPS signal in this page,press exit to back previous page.</p> 	

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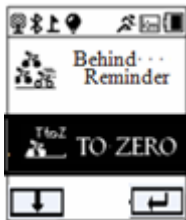



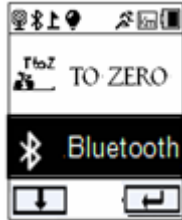
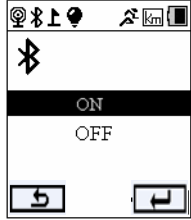
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<p>Switch to Coordinate and enter it. Check longitude and latitude in here</p>		
<p>Switch to Set mode and enter it</p>		<p>There are several setting in this mode. Time zone, unit format, Interval ,Category ,Auto log , Contrast, Auto back-light,F/W version, Behind Reminder. To zero ,Bluetooth</p>
<p>Access "Time zone" Adjust right time zone in here, press Next to increase number(left button) , press Enter to set .</p>		
<p>Switch to units and enter it. Choose Imperial , metric or Nautical . Press next and mark your unit format and press enter</p> <p> Metric  Imperial  Nautical</p>	<p>After setting , the top of screen will show unit format</p>  	
<p>Press next Switch to interval and enter it. For Interval, the default is 1 second, Press Next to set your interval from 1-30 seconds, press enter "setting"</p>		 <p>MG-600 stores 260,000 waypoints. Setting interval could decide how long you recorded tracks.</p>

<p>Press exit to switch LOG FILE and enter it. For your logging data , you could save in different file-- Normal , work, travel and Sport.</p>	 <p>  NORMAL  TRAVEL  WORK  Sport </p>	 <p>Select file and press enter. If you choose Sport, all saving data will be in this file and the top screen will show a man running.</p>
<p>Switch to " back-lit and enter it. Choose Auto or off. Choose Auto Auto backlit will be on in night or cross tunnel, Choose off, the backlit won't on in dark place</p>		 <p>Off -the light won't auto on when in dark.</p>
<p>Switch to FW and enter it (firmware version)</p>		<p>Display current firmware version. Press exit to previous page</p>
<p>Switch to "Behind" and enter it --Behind reminder means when current speed lower than average speed. the current speed will be high-light , To remind you catch up speed.</p>	   <p>Mark remind and choose On or Off. If you've been slower than your average speed , the screen will highlight current speed. While you catch up the speed , the highlight will be off. Mark Off – don't use this function</p>	



<p>Speed and ODO to zero Switch to "to zero" and enter it . You could clean ODO and trip time in this section.</p>		
<p>Clear ODO and speed Mark Trip or ODO and enter it, press 'Yes' to delete the data</p>		 <p>Once press yes, all ODD and speed will be delete.</p>
<p>Switch to BT and enter it . Bluetooth only for MG-600W, For MG-600 , does not have Bluetooth function. (BT only for MG-600W)</p>	<p>Choose on or off BT -on transfer data to PC and pair PDA or smart phone for navigation. The code is 0000</p> <div style="display: flex; justify-content: space-around;">   </div>	

H. World GMT setting (Time zone)

Country	Time zone	Daylight saving	Daylight saving time
European			
Denmark	1	2	From Mar to Sep
Belgium	1	2	3-9
Iceland	0	1	3-9
Hungary	1	2	3-9
Spain	1	2	3-9
Greece	1	2	3-9
Poland	1	2	3-9
France	1	2	3-9
Finland	2	3	4-10
Great Britain standard GMT	0	1	3-10
Norway	1	2	3-9
Czech	1	2	3-9
Vatican	1	2	3-9
Netherlands	1	2	3-9
Slovak	1	2	3-9
Austria	1	2	3-9
Switzerland	1	2	3-9
Sweden	1	2	3-9
Italy	1	2	3-9
Germany	1	2	3-9
Monaco	1	2	3-9
Luxembourg	1	2	3-9
Atalatic Oceania			
New Zealand	12	13	10-3
Australia			
Eastern time zone	10		

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Sydney	10		4-10
Central	9.5		
Adelaide	10.5		
West	8		
Perth	9		
Guam	10		
North America			
Canada			
Newfoundland (NST)	3.5		
St. Johns	2.5		
Atlantic	-4		
Goose Bay	-3		
EST	-5		
Toronto	-4		
CST	-6		
Winnipeg	-5		
MST	-7		
Calgary	-6		
PST	-8		
Vancouver	-7		
Nicaragua	-6		
Guatemala	-6		
Honduras	-6		
Costa Rica	-6		
El Salvador	-6		
(U.S.A.)			
EST	-5		
New York	-4		
CST	-6		
Chicago	-5		
MST	-7		
Salt Lake City	-6		
PST	-8		

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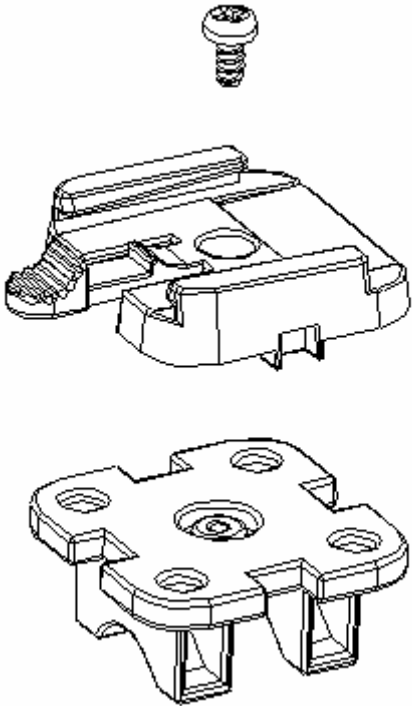
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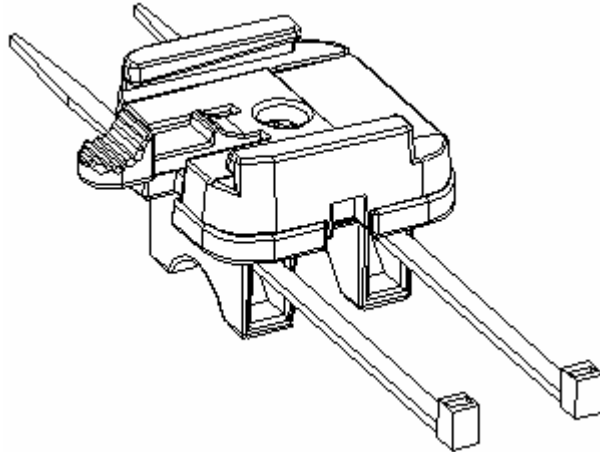
Los Angeles	-7		
AKST	-9		
Anchorage	-8		
HST	-10		
Honolulu	-9		
ASIA			
Turkey	2	2	5-10
China	8		
Taiwan	8		
Japan	9		
Korea	9		
Nepal	+5 :45		
Indonesia	8		
Thailand	7		
Malaysia	8		
Philippines	8		
Singapore	8		
Africa			
South Africa	2		
Egypt	2		

I Bike mount Installation

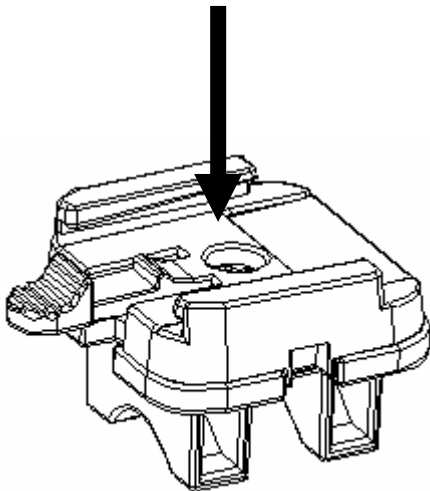
Step1 use screw fix frame together



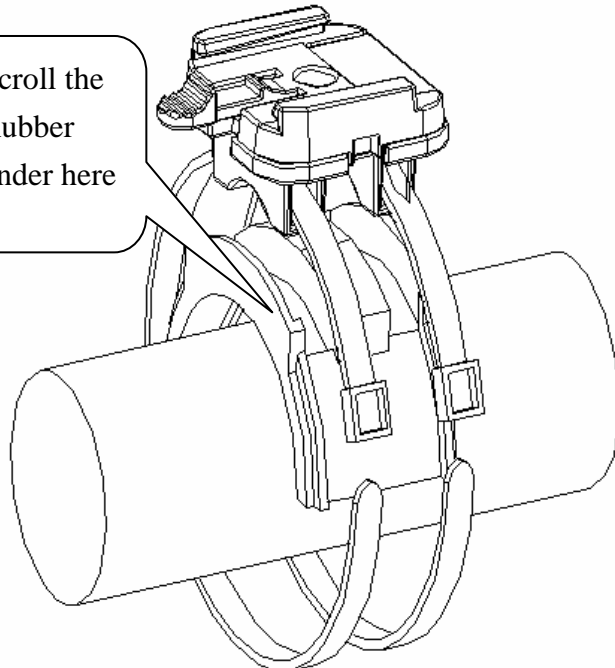
Step2-Put string through hole



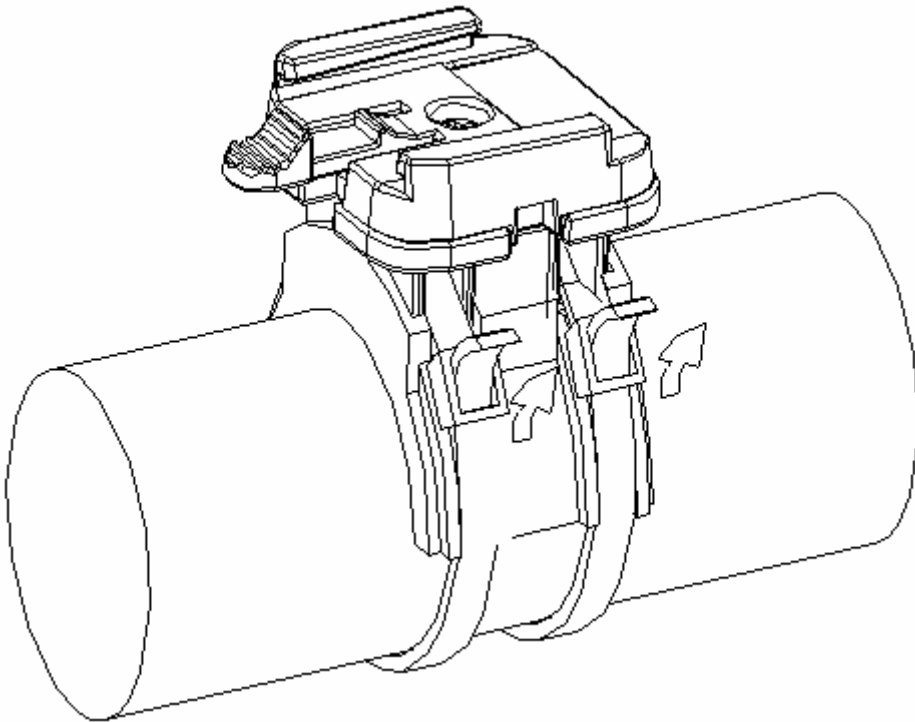
Step3—Fix the rubber under the holder



Scroll the
Rubber
under here



Step 4—Pull string tight and fix on the handle bar



Step5 – put the device on bike mount and finish attachment

