

# MAINNAV International Corp.

1F., No.1, Aly. 25, Ln. 92, Yumin Rd., Tucheng City, Taipei County 236, Taiwan (R.O.C.)

TEL -886 02 8261 0086 Fax - 02 8261 0613 [sales@mainnav.com](mailto:sales@mainnav.com) [www.mainnav.com](http://www.mainnav.com)

---

---

## MG-600 GPS Sport logger



# MAINNAV International Corp.

1F., No.1, Aly. 25, Ln. 92, Yumin Rd., Tucheng City, Taipei County 236, Taiwan (R.O.C.)

TEL –886 02 8261 0086 Fax – 02 8261 0613 [sales@mainnav.com](mailto:sales@mainnav.com) [www.mainnav.com](http://www.mainnav.com)

---

---

## Table of content

A specification	4
Physical	4
Environmental	4
GPS	4
Battery	4
Interface	5
B Feature	5
C Function	6
D Certificate/ Warranty	6
E Standard package	6
F Operation	7
buttons indicate	7
Icon intro	7
G Get starting	8--13
H. world GMT setting (time zone)	14-16
I. Bike mount installation	17

# MAINNAV International Corp.

1F., No.1, Aly. 25, Ln. 92, Yumin Rd., Tucheng City, Taipei County 236, Taiwan (R.O.C.)

TEL –886 02 8261 0086 Fax – 02 8261 0613 [sales@mainnav.com](mailto:sales@mainnav.com) [www.mainnav.com](http://www.mainnav.com)

---

---

## 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.

# MAINNAV International Corp.

1F., No.1, Aly. 25, Ln. 92, Yumin Rd., Tucheng City, Taipei County 236, Taiwan (R.O.C.)

TEL -886 02 8261 0086 Fax - 02 8261 0613 [sales@mainnav.com](mailto:sales@mainnav.com) [www.mainnav.com](http://www.mainnav.com)

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

# MAINNAV International Corp.

1F., No.1, Aly. 25, Ln. 92, Yumin Rd., Tucheng City, Taipei County 236, Taiwan (R.O.C.)

TEL -886 02 8261 0086 Fax - 02 8261 0613 [sales@mainnav.com](mailto:sales@mainnav.com) [www.mainnav.com](http://www.mainnav.com)

BT GPS+back-lit	13 hours
<b>Interface</b>	
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>B Feature</b>	
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	

# MAINNAV International Corp.

1F., No.1, Aly. 25, Ln. 92, Yumin Rd., Tucheng City, Taipei County 236, Taiwan (R.O.C.)

TEL –886 02 8261 0086 Fax – 02 8261 0613 [sales@mainnav.com](mailto:sales@mainnav.com) [www.mainnav.com](http://www.mainnav.com)

## 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

**RoHs CE&FCC BQB**

**R&TTE / CE**

This device complies with ETSI EN 300 328-1, ETSI EN 301 489-1 / 17, EN60950.

**BQB**

In SIG listing.

**FCC**

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

# MAINNAV International Corp.

1F., No.1, Aly. 25, Ln. 92, Yumin Rd., Tucheng City, Taipei County 236, Taiwan (R.O.C.)

TEL -886 02 8261 0086 Fax - 02 8261 0613 [sales@mainnav.com](mailto:sales@mainnav.com) [www.mainnav.com](http://www.mainnav.com)














## 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


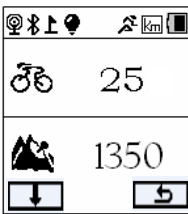



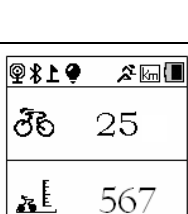
### b. Icon introduction

				
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		

# MAINNAV International Corp.

1F., No.1, Aly. 25, Ln. 92, Yumin Rd., Tucheng City, Taipei County 236, Taiwan (R.O.C.)

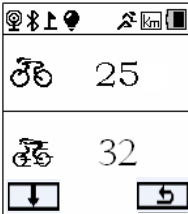

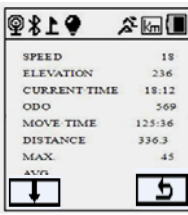


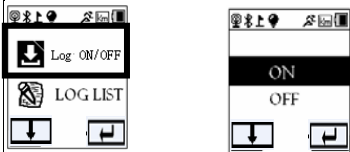


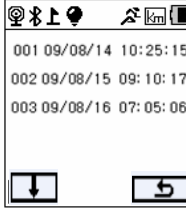
TEL –886 02 8261 0086 Fax – 02 8261 0613 [sales@mainnav.com](mailto:sales@mainnav.com) [www.mainnav.com](http://www.mainnav.com)

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

# MAINNAV International Corp.

1F., No.1, Aly. 25, Ln. 92, Yumin Rd., Tucheng City, Taipei County 236, Taiwan (R.O.C.)

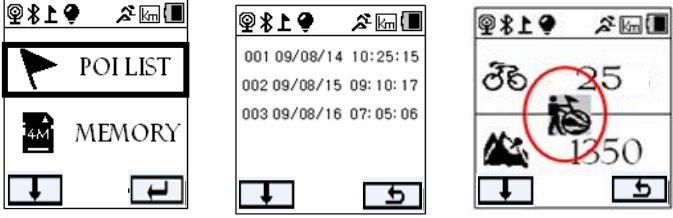
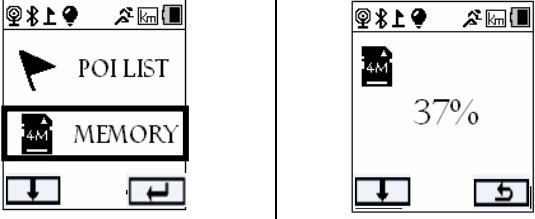
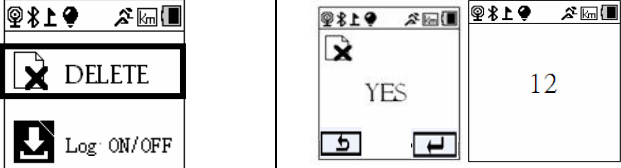

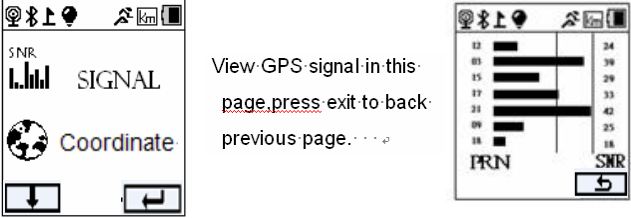
TEL –886 02 8261 0086 Fax – 02 8261 0613 [sales@mainnav.com](mailto:sales@mainnav.com) [www.mainnav.com](http://www.mainnav.com)

<p>Press <b>(Next)</b> to sixth page</p>		<p>Current speed</p> <p>Maximum speed</p>
<p>Press <b>(Next)</b> to seventh page</p>		<p>Current speed</p> <p>Average speed</p>
<p>Press <b>( Next )</b> 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 <b>Enter</b> to access LOG Info</p>		<p>LOG info –log list, memory ,POI</p>
<p>Enter <b>Switch</b> --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 <b>log list</b> You could check your logging data</p>		

# MAINNAV International Corp.

1F., No.1, Aly. 25, Ln. 92, Yumin Rd., Tucheng City, Taipei County 236, Taiwan (R.O.C.)

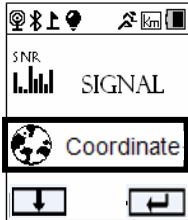
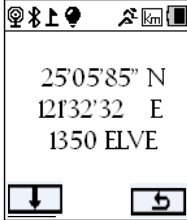
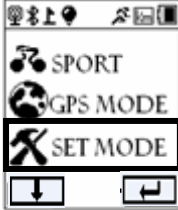
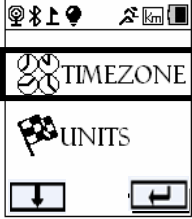
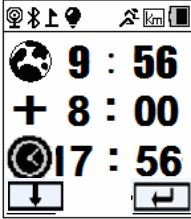




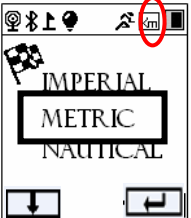
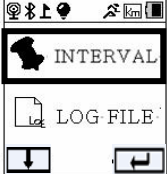

TEL -886 02 8261 0086 Fax - 02 8261 0613 [sales@mainnav.com](mailto:sales@mainnav.com) [www.mainnav.com](http://www.mainnav.com)

<p>Switch to <b>Log Info</b> ,press <b>next</b> 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 <b>Exit</b></p>
<p>Delete the memory Press <b>Enter</b> to delete the memory. When press <b>YES</b> 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 <b>Signal</b> and <b>Lat/Lon</b> 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>

# MAINNAV International Corp.

1F., No.1, Aly. 25, Ln. 92, Yumin Rd., Tucheng City, Taipei County 236, Taiwan (R.O.C.)

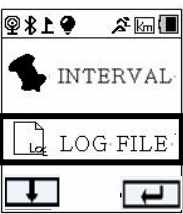
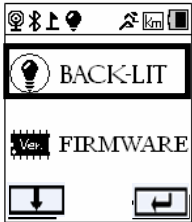
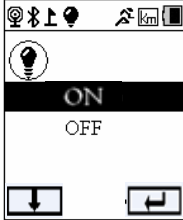
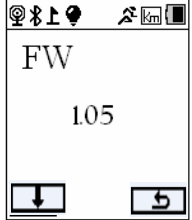
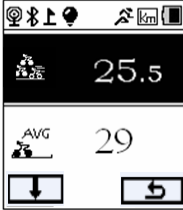
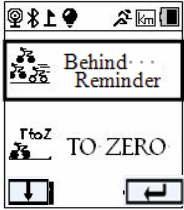

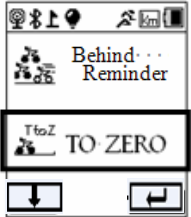

TEL -886 02 8261 0086 Fax - 02 8261 0613 [sales@mainnav.com](mailto:sales@mainnav.com) [www.mainnav.com](http://www.mainnav.com)

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

# MAINNAV International Corp.

1F., No.1, Aly. 25, Ln. 92, Yumin Rd., Tucheng City, Taipei County 236, Taiwan (R.O.C.)




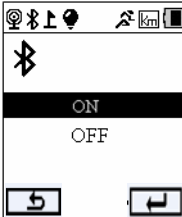
TEL –886 02 8261 0086 Fax – 02 8261 0613 [sales@mainnav.com](mailto:sales@mainnav.com) [www.mainnav.com](http://www.mainnav.com)

<p>Press exit to switch <b>LOG FILE</b> 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 <b>enter</b> 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>FIRMWARE</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 "<b>Behind</b>" 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 <b>remind</b> 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.</p> <p>Mark <b>Off</b> – don't use this function</p>	
<p><b>Speed and ODO to zero</b> Switch to "<b>to zero</b>" and enter it . You could clean ODO and trip time in this section.</p>	 	

# MAINNAV International Corp.

1F., No.1, Aly. 25, Ln. 92, Yumin Rd., Tucheng City, Taipei County 236, Taiwan (R.O.C.)

TEL -886 02 8261 0086 Fax - 02 8261 0613 [sales@mainnav.com](mailto:sales@mainnav.com) [www.mainnav.com](http://www.mainnav.com)

<p><b>Clear ODO and speed</b> 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 <b>BT</b> and enter it . Bluetooth only for MG-600W, For MG-600 , does not have Bluetooth function. <b>( BT only for MG-600W)</b></p>	<p>Choose on or off BT -on transfer data to PC and pair PDA or smart phone for navigation. The code is <b>0000</b></p>  	

# MAINNAV International Corp.

1F., No.1, Aly. 25, Ln. 92, Yumin Rd., Tucheng City, Taipei County 236, Taiwan (R.O.C.)

TEL –886 02 8261 0086 Fax – 02 8261 0613 [sales@mainnav.com](mailto:sales@mainnav.com) [www.mainnav.com](http://www.mainnav.com)

## H. World GMT setting (Time zone)

Country	Time zone	Daylight saving	Daylight saving time
<b>European</b>			
Denmark	1	2	<b>From Mar to Sep</b>
Belgium	1	2	<b>3-9</b>
Iceland	0	1	<b>3-9</b>
Hungary	1	2	<b>3-9</b>
Spain	1	2	<b>3-9</b>
Greece	1	2	<b>3-9</b>
Poland	1	2	<b>3-9</b>
France	1	2	<b>3-9</b>
Finland	2	3	<b>4-10</b>
Great Britain standard GMT	0	1	<b>3-10</b>
Norway	1	2	<b>3-9</b>
Czech	1	2	<b>3-9</b>
Vatican	1	2	<b>3-9</b>
Netherlands	1	2	<b>3-9</b>
Slovak	1	2	<b>3-9</b>
Austria	1	2	<b>3-9</b>
Switzerland	1	2	<b>3-9</b>
Sweden	1	2	<b>3-9</b>
Italy	1	2	<b>3-9</b>
Germany	1	2	<b>3-9</b>
Monaco	1	2	<b>3-9</b>
Luxembourg	1	2	<b>3-9</b>
<b>Atalatic Oceania</b>			
New Zealand	12	13	<b>10-3</b>
<b>Australia</b>			
Eastern time zone	10		
Sydney	10		<b>4-10</b>
Central	9.5		

# MAINNAV International Corp.

1F., No.1, Aly. 25, Ln. 92, Yumin Rd., Tucheng City, Taipei County 236, Taiwan (R.O.C.)

TEL -886 02 8261 0086 Fax - 02 8261 0613 [sales@mainnav.com](mailto:sales@mainnav.com) [www.mainnav.com](http://www.mainnav.com)

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

# MAINNAV International Corp.

1F., No.1, Aly. 25, Ln. 92, Yumin Rd., Tucheng City, Taipei County 236, Taiwan (R.O.C.)

TEL –886 02 8261 0086 Fax – 02 8261 0613 [sales@mainnav.com](mailto:sales@mainnav.com) [www.mainnav.com](http://www.mainnav.com)

AKST	-9		
Anchorage	-8		
HST	-10		
Honolulu	-9		
<b>ASIA</b>			
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		
<b>Africa</b>			
South Africa	2		
Egypt	2		

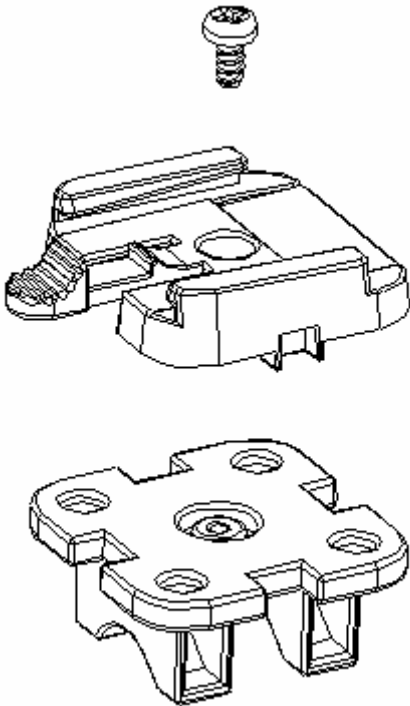
# MAINNAV International Corp.

1F., No.1, Aly. 25, Ln. 92, Yumin Rd., Tucheng City, Taipei County 236, Taiwan (R.O.C.)

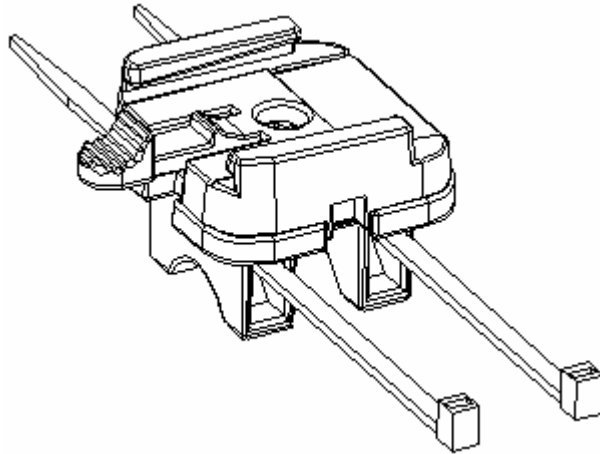
TEL -886 02 8261 0086 Fax - 02 8261 0613 [sales@mainnav.com](mailto:sales@mainnav.com) [www.mainnav.com](http://www.mainnav.com)

## I Bike mount Installation

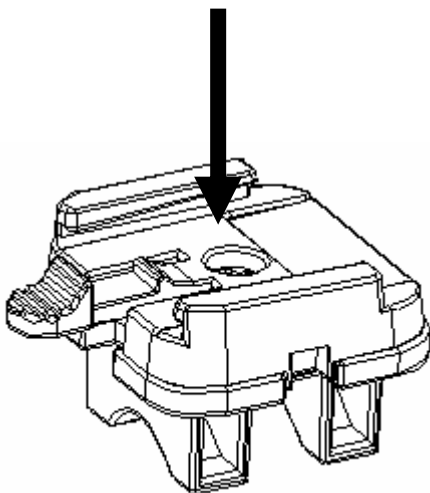
**Step1** use screw fix frame together



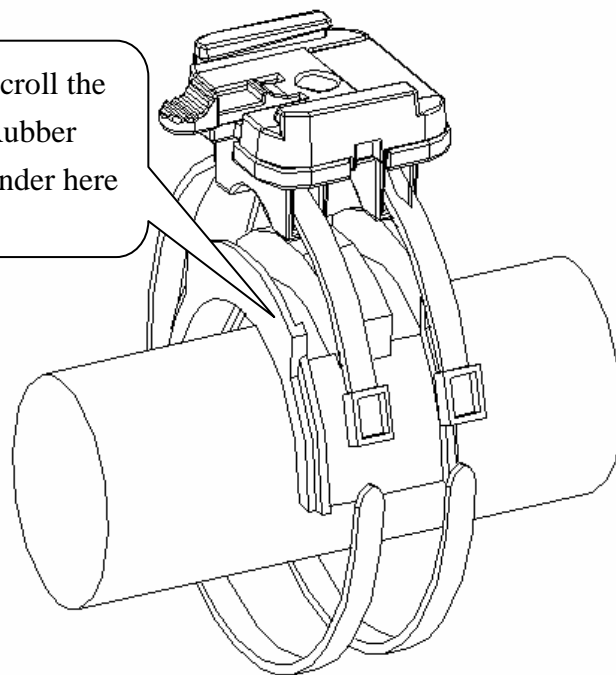
**Step2**-Put string through hole



**Step3**—Fix the rubber under the holder



Scroll the Rubber under here

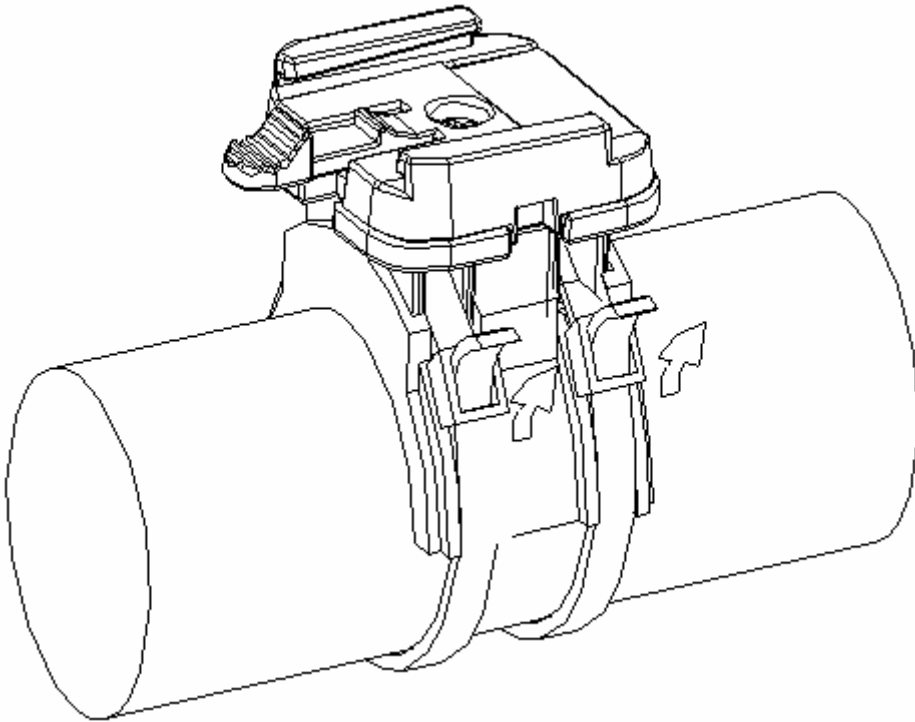


# MAINNAV International Corp.

1F., No.1, Aly. 25, Ln. 92, Yumin Rd., Tucheng City, Taipei County 236, Taiwan (R.O.C.)

TEL –886 02 8261 0086 Fax – 02 8261 0613 [sales@mainnav.com](mailto:sales@mainnav.com) [www.mainnav.com](http://www.mainnav.com)

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



**Step 5** – put the device on bike mount and finish attachment

