

**Thank you for purchasing an MSW Miniac GPS-333 Cycling Computer!**

Thank you for your purchase! At MSW® we believe having essential accessories makes a good bike ride great. The 33-function Miniac GPS-333 Cycling Computer is loaded with features that will add to any ride experience. Take it along on every ride!

**⚠ WARNING:** Cycling can be dangerous. Bicycle products should be installed and serviced by a professional mechanic. Never modify your bicycle or accessories. Read and follow all product instructions and warnings including information on the manufacturer's website. Inspect your bicycle before every ride. Always wear a helmet.

For additional product and safety information go to: [www.mswbike.com/safety](http://www.mswbike.com/safety).

**COMPATIBILITY AND INTENDED USE**

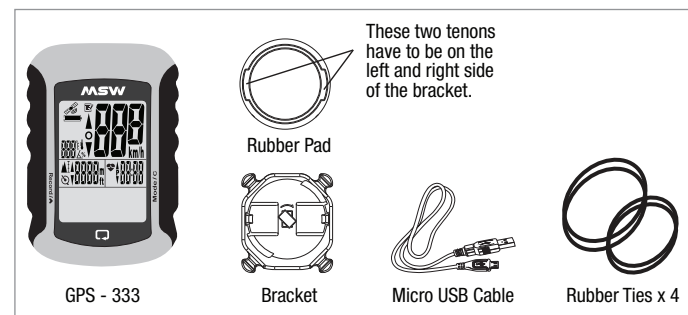
The MSW MINIAC GPS-333 function list includes: GPS Technology, Auto Wake-Up, Backlight On/Off, Actual Temperature, Riding Data File Storage, PC Link Connection, Device Battery Life Indicator, Button Sound, Clock, Trip Time, Trip Distance, Total ODO, Speed Comparison, Current / Average / Maximum Speed, Actual Altitude, Trip Altitude Gain / Loss, Total Altitude, Maximum Altitude, Current / Average / Maximum Gradient.

**FUNCTIONS AVAILABLE WITH ADDITIONAL BLE SENSORS NOT INCLUDED:** Current / Average / Maximum Cadence, Current / Average / Maximum Power, Current / Average / Maximum Heart Rate, Maximum Pulse %.

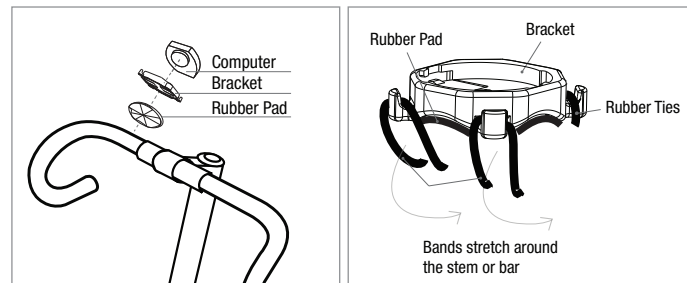


The MSW Miniac GPS-333 is intended for use on roads and paved trails as well as ASTM Condition 2 use. This includes smooth paved roads, unpaved and gravel roads, and trails with moderate grades where loss of contact with ground may occur but drops are less than 6" (15cm).

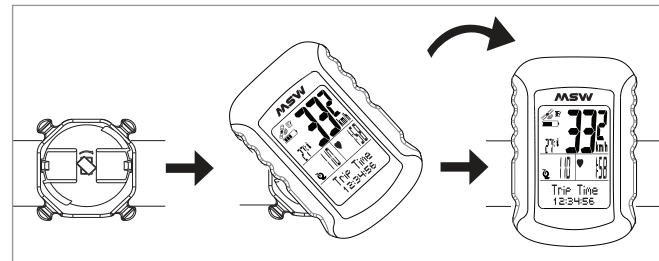
The Miniac GPS-333 head unit mounting bracket is compatible with most handlebar diameters.

**INSTALLATION****ITEM CHECKLIST****HOW TO MOUNT THE BRACKET**

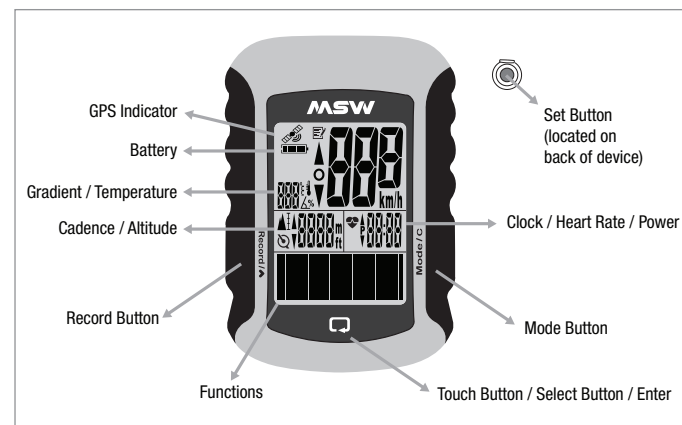
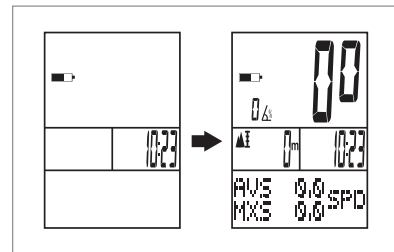
Use the rubber pad to tighten the bracket on the handlebar or stem with the rubber ties.



Place the computer on the bracket and secure it by turning it clockwise.

**COMPUTER MAIN DISPLAY & BUTTON FUNCTION****TURN ON / OFF**

Press RECORD button and MODE button for three seconds to turn on / off the device.

**WAKE UP AND SLEEP**

**Auto Wake Up:** When there is any speed or vibration, the computer will wake up.

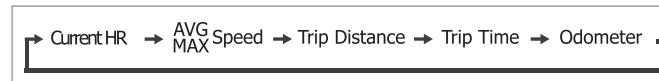
**Auto Sleep:** After six minutes without any speed or vibration, computer will go to sleep.

**MODE CHANGE**

Press MODE button to change mode.

**BIKE MODE**

In Bike Mode, press SELECT button to change functions.

**CADENCE MODE**

In Cadence Mode, you will only see Average and Max cadence.

**HEART RATE MODE**

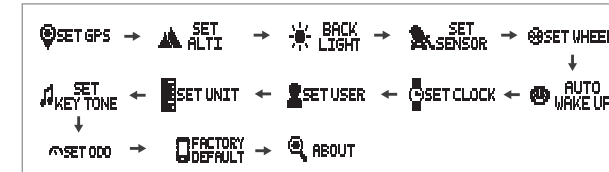
In Heart Rate Mode, press SELECT button to change functions.

**POWER MODE**

In Power Mode, you will only see Average and Max power.

**ALTITUDE MODE**

In Altitude Mode, press SELECT button to change functions.



**NOTE:** When the corresponding sensors are paired, the Cadence Mode, Heart Rate Mode, and Power Mode will appear.

The speed must be maintained for 8 or more seconds to have AVG Cadence, AVG Heart Rate, MAX Heart Rate %, and AVG MAX Power data.

On any screen, press and hold MODE button for 3 seconds to clear the data. **NOTE:** Odometer and total ALT cannot be cleared no matter it is recording or not, users can set the Odometer and total ALT in the set mode.

- Please note while recording, not only Odometer and Total ALT, but also all the data cannot be cleared.

**SET MODE**

Press SET button 3 seconds to go to set mode.

Press SELECT button to enter options.

Press RECORD button to scroll through options.

Press MODE button to get to next setting.

Press SET button three seconds or wait 60 seconds to exit set mode.

**SET GPS**

Press SELECT button to enter options.

Press RECORD button to select POWER SAVING / ALWAYS OFF / ALWAYS ON.

Press MODE button to set option.

Press MODE button again to move to altitude.

**SET ALTITUDE**

Press SELECT button to enter options.

Press RECORD button to scroll options.

Press SELECT button to choose manual or auto detect.

**Manual Setting:**

- Press RECORD button to scroll through numbers.
- Press SELECT button to move to next number column.
- Press MODE button to set option.
- Press MODE button again to move to backlight.

**BACKLIGHT**

Press SELECT button to enter options.

Press RECORD button to scroll through options.

Press MODE button to set option.

Press MODE button again to move to set sensor.

**SET SENSOR**

(If you are not adding a sensor press MODE button to move to set wheel and then press MODE button again to move to auto wake up.)

Press SELECT button to select SPD&CAD / HEART RATE / POWER.

Press RECORD button to search.

If, after searching for 30 seconds it is unsuccessful, it will display the sensor ID. If it has failed, it will display "ID not found."

Press MODE button to set option.

Press MODE button again to move to set wheel.

**SET WHEEL**

Press SELECT to enter options.

Press RECORD button to select SET / TIRE LIST.

**Manual Set:**

- Press RECORD button to select number.
- Press SELECT button to go to next setting.

**Tire List:**

- Press RECORD button to select option.
- Press SELECT button to go to next setting.
- Press MODE button to set option.
- Press MODE button again to move to auto wake up.

**AUTO WAKE UP**

Press SELECT button to enter options.

Press RECORD button to select ON / OFF.

Press MODE button to set option.

Press MODE button again to move to set clock.

**SET CLOCK**

Press SELECT button to enter options.

Press RECORD button to select AUTO DETECT / MANUAL SET.

**Auto Detect:** Set 12H / 24H → Set Time Zone → Set Daylight Savings

**Manual:** Set 12H / 24H → Set Clock → Set Date

Press RECORD button to select option.

Press SELECT button to go to next setting.

Press MODE button to set option.

Press MODE button again to move to set user.

Select AUTO DETECT and turn on GPS, time information will be updated by GPS signal automatically.

**SET USER**

Press SELECT button to enter options.

Press RECORD button to select MALE / FEMALE.

Press SELECT button to set option.

Press RECORD button to select birthday.

Press SELECT button to move from year / month / day.

Press MODE button to set option.

Press MODE button again to move to set unit.

**SET UNIT**

Press SELECT button to enter options.

Press RECORD button to scroll METRIC / IMPERIAL.

Press SELECT button to move to temperature options.

Press RECORD button to scroll C / F.

Press MODE button to set option.

Press MODE button again to move to set button tone.

**SET BUTTON TONE**

Press SELECT button to enter options.

Press RECORD button to select ON / OFF.

Press MODE button to set option.

Press MODE button again to move to set odometer.

**SET ODOMETER**

Press SELECT button to enter options.

Press RECORD button to scroll through numbers.

Press SELECT button to move to next number column.

Press MODE button to set.

Press MODE button again to move to factory default.

**FACTORY DEFAULT**

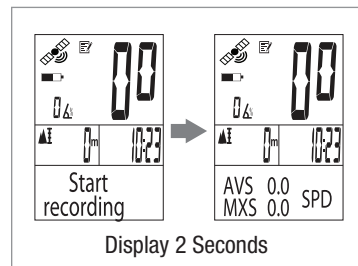
Press SELECT button to reset data.  
Press RECORD button to select Yes.  
Press RECORD button to confirm.  
Press MODE button to set.  
Press MODE button again to move to about.

**ABOUT**

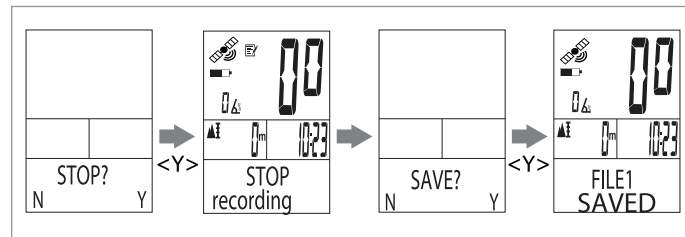
Press SELECT button to go to next information.  
View the software version.  
View the BLE Module.  
View the device ID.

**HOW TO RECORD YOUR RIDE**

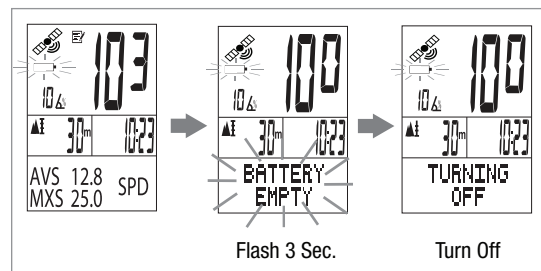
Press RECORD button to start recording.



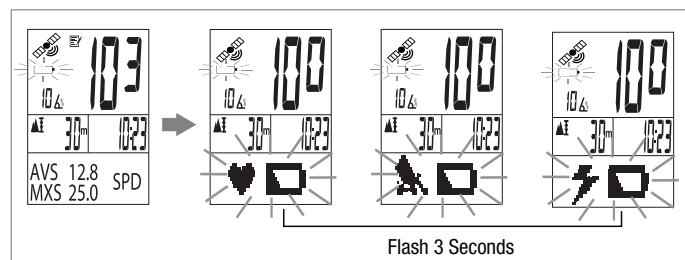
Press RECORD button to stop recording.  
Press MODE button to select Yes.  
Press RECORD button to select No and continue riding.

**LOW BATTERY**

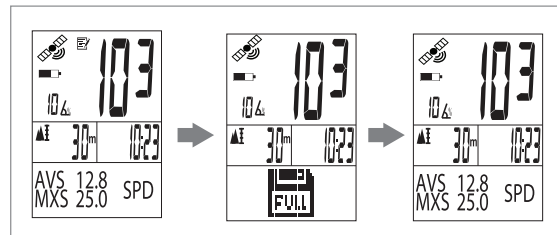
When the power is less than 10%, it will automatically stop recording and turn off. After it is recharged and restarted, recording will resume.



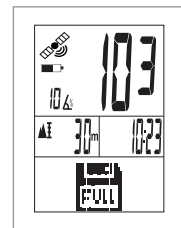
When the power is less than 10%, the low battery indicator will flash every 60 seconds. The battery needs to be recharged.

**MEMORY FULL**

When the storage space is full, the device will automatically stop recording and store.



If the space is full, when pressing the Record Key, the device will flash and the information will not be recorded.

**HOW TO CONNECT TO PC SOFTWARE**

Install the software on a Microsoft PC.

Insert the USB cable into the device and connect it to the computer's USB port.

Start the PC software.

- Under "File", select "Import from device."
- Choose the device and press "OK."
- Choose the data you want to use and press "Upload Select File."
- After uploading the data, press "Cancel" to start review.

**NOTE:** For the most updated information on software and APP please visit our website. We strongly suggest using the USB cable that is included to connect to the PC.

**MAINTENANCE**

If the display contrast changes and becomes faint, it's time to recharge the battery.

**NOTE:** Do not expose Miniac GPS computer to extremely cold or hot temperatures. Avoid leaving the unit in direct sunlight for extended periods of time.

**SENSOR**

Check the position of sensor and magnet periodically. Rust or corrosion on the magnet may cause malfunction. The gap between magnet and sensor cannot exceed 5mm.

**TROUBLESHOOTING****Q1. Display is black or very light:**

The battery power may be low. Make sure the battery is installed correctly or replace if necessary.

**Q2. Display becomes dark or black:**

The unit is too hot. Place the unit in a shaded area and it will return to normal.

**Q3. The unit operates slowly or struggles:**

The unit is too cold. Warm the unit and it will return to normal.

**Q4. Data in display varies enormously:**

Check the surroundings for electromagnetic or high energy interference, e.g. power lines, and move away from the source of interference.

**Q5. Data in display shows slowly:**

The unit may be too cold. When the temperature rises, the data reading will return to normal.

**Q6. Current speed does not appear:**

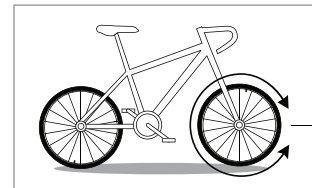
The sensor may be too far from the magnet. Make sure the gap is no wider than 5mm. Make sure the magnet is free of corrosion.

**SPECIFICATIONS**

Operating Temp	32~104°F (0~40°C)
Storage Temp	14~122°F (-10~50°C)
Battery	USB Rechargeable
Battery life (computer)	15 hrs
Weight	53.5g
Cadence	0~999 RPM
Heart Rate	30~240 BPM
Power	0~999 Watt
Timer Range	99 (hour) : 59 (minute) : 59 (second)
Current Speed Range	0~99.9kph / 0~62.4 mph
Average Speed Range	0~99.9kph / 0~62.4 mph
MAX Speed Range	0~99.9kph / 0~62.4 mph
(Trip) Distance Range	0~9999.99km / 0~6249.99 mi
Odometer Range	0~999999km / 0~624999 mi
Altitude Gain/Loss	0~30479km / 0~99999 ft
Total Altitude	0~304799km / 0~999999 ft
Maximum Altitude	0~39999km / 0~99999 ft
Current Altitude	-699~39999km / -999~99999 ft

**WHEEL SIZE CHART****CALCULATING WHEEL CIRCUMFERENCE**

To get the most accurate speed and distance data, the wheel size must be correct. Mark the tire or position the valve stem at the 6 o'clock position and push the bike until the mark or valve stem is back to 6 o'clock. Then measure the length between two points to get the circumference.



Tire Scale	L (mm)	Tire Scale	L (mm)	Tire Scale	L (mm)
14 x 1.50"	1020	26 x 1 (65)	1952	27.5 x 2.10	2170
14 x 1.75	1055	26 x 1-1/8	1970	27.5 x 2.30	2202
16 x 1.50	1185	26 x 1-3/8	2068	29 x 2.10	2288
16 x 1.75	1195	26 x 1-1/2	2100	29 x 2.30	2326
18 x 1.50	1340	26 x 1.40	2005	650 x 35A	2090
18 x 1.75	1350	26 x 1.50	2010	650 x 38A	2125
20 x 1.75	1515	26 x 1.75	2023	650 x 38B	2105
20 x 1-3/8	1615	26 x 1.95	205	700 x 18C	2070
22 x 1-3/8	1770	26 x 175	2023	700 x 19C	2080
22 x 1-1/2	1785	26 x 1.95	2050	700 x 20C	2086
24 x 1	1753	26 x 2.00	2055	700 x 23C	2096
24 x 3/4 Tubular	1785	26 x 2.10	2068	700 x 25C	2105
24 x 1-1/8	1795	26 x 2.125	2070	700 x 28C	2136
24 x 1-1/4	1905	26 x 2.35	2083	700 x 30C	2146
24 x 1.75	1890	26 x 3.00	2170	700 x 32C	2155
24 x 2.00	1925	27 x 1	2145	700c Tubular	2130
24 x 2.125	1965	27 x 1-1/8	2155	700 x 35C	2168
26 x 7/8	1920	27 x 1-1/4	2161	700 x 38C	2180
26 x 1 (59)	1913	27 x 1-3/8	2169	700 x 40C	2200

**LIMITED 2-YEAR WARRANTY**

MSW warrants this new MSW product against defects in materials and workmanship for two (2) years from the original date of retail purchase by the consumer. This limited warranty is expressly limited to the repair or replacement of the original product, at the option of MSW, and is the sole remedy of the warranty. This limited warranty applies only to the original purchaser of the MSW product and is not transferable.

In no event shall MSW be liable for any loss, inconvenience or damage, whether direct, incidental or consequential or otherwise resulting from breach of any express or implied warranty or condition of merchantability, fitness for a particular purpose, or otherwise with respect to this product except as set forth herein. This warranty gives the consumer specific legal rights, and those rights and other rights may vary from state to state.

This warranty does not cover the following:

- Damage due to improper assembly or follow-up maintenance or lack of skill, competence or experience of the end user
- Products that have been modified, neglected, used in competition or for commercial purposes, misused or abused, involved in accidents or anything other than normal use
- Damage or deterioration to the surface finish, aesthetics or appearance of the MSW product
- Normal wear and tear
- Labor required to remove and/or refit and re-adjust the product within the bicycle assembly
- Installation of components, parts, or accessories not originally intended use with or compatible with MSW products

TO THE EXTENT NOT PROHIBITED BY LAW, THESE WARRANTIES ARE EXCLUSIVE AND THERE ARE NO OTHER EXPRESS OR IMPLIED WARRANTIES OR CONDITIONS INCLUDING WARRANTIES OR CONDITIONS OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

**WARRANTY PROCESS**

If you and your shop think your MSW product is worthy of a warranty inspection, please return the product to the original place of purchase, accompanied by a sales receipt.

For complete warranty information, visit [www.mswbike.com/safety/warranty](http://www.mswbike.com/safety/warranty).