

User's Guide

Cyclocomputer

SGX-CA500

Please read the ***Important Information for the User*** in the product box for product warnings and other important safety information.

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Introduction

Features

Trip Data Display (CycloMeter)

- CycloMeter displays detailed trip data like speed, power, and cadence with figures and graphs.

Log Function

- The device records a log of your ride, things like elapsed time and a wide variety of other sensor information.
- GPS tracking and location information are also logged for detailed analysis of training sessions.
- Auto Pause / Resume can be programmed to automatically sync with bike motion.

Update

- Various applications may be available in the future through firmware update.

This product is designed to be used for recreational cycling and cycle training applications only and is not designed to withstand racing conditions.

Additionally, this product is designed to be used while cycling on paved roads only. Any damage or malfunction arising from use in racing or riding on dirt roads, cobblestone or any other unpaved roads will not be covered by the manufacturer's limited warranty.

Getting Started

Checking Accessories/Part Names and Functions

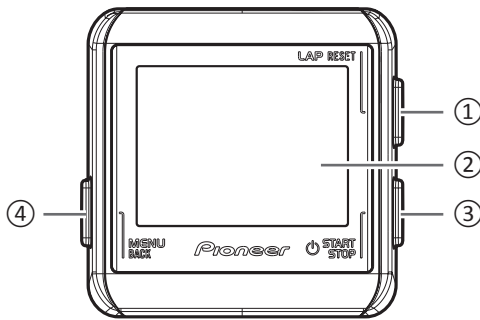
Accessories

This product contains the following parts.

- Main unit
- Bracket (including bolt x 1)
- USB cable
- Strap
- Quick Start Guide
- Important Information for the User
- Warranty Card

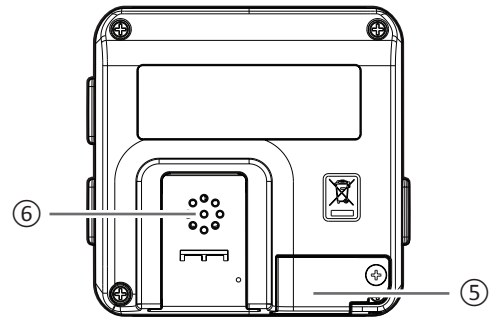
Part Names and Functions

■ Front View



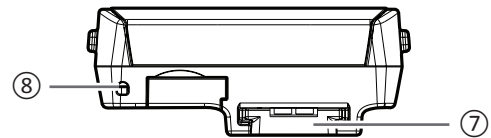
- ① **[LAP] button**
Press the [LAP] button during logging to record the lap. Press the [LAP] button for more than one second to reset the timer and record the log.
- ② **Display (touch panel)**
Touch the screen directly to select an item or change screens.
- ③ **[START/STOP] button**
Press the [START/STOP] button to start or stop logging. Press the [START/STOP] button for more than two seconds to turn the power on or off.
- ④ **[MENU] button**
Press the [MENU] button to display or close the menu screen. Press the [MENU] button for more than one second to lock or unlock the touch panel.
- [BACK] button**
Press the [BACK] button to go back to the previous screen. Press the [BACK] button on the main screen of the applications to display the home screen of the device.

■ Back View



- ⑤ **USB connector cover**
Securely close the USB connector cover when not charging the battery or transferring data to your PC.
USB connector (inside)
Connect the USB cable to charge the device or transfer data to your PC.
- ⑥ **Speaker**
Provides audible alerts and clicks.

■ Bottom View



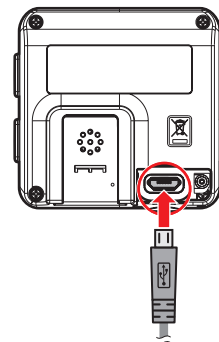
- ⑦ **Bracket installation slot**
Use the bracket installation slot to attach the device on the bracket fixed to the bike.
- ⑧ **Lanyard Hole**
Strap attaches to this opening.

Charging

The device is not charged at the time of purchase. Charge the device with the provided USB cable before using it.

Charging the Device

1. **Open the USB connector cover.**
2. **Connect the provided USB cable to the USB connector of the device.**



3. **Turn your PC on and connect the USB cable to an open USB port on your PC.**
The device starts charging.
The device is turned off

To power up

Press the [START/STOP] button for more than 2 seconds to turn on the device for use.

Press the [START/STOP] button for more than 2 seconds again to turn off the device. Charging time is shorter if the device is turned off.

- It takes about 4 hours to charge fully (normal charging). The device will automatically stop charging once the battery is 100% fully charged.
- When the device is turned off, the screen turns dark after 5 seconds. Touch the touch panel to check the battery level.
- For the sake of safety, the device will not charge when outside the temperature range of 0°C-40°C. When the device's internal temperature is too high, full charge may not be achieved. In this case, turn off the device, allow time to cool down and recharge.
- Connect the provided USB cable directly to a USB port of your PC. If the device is connected via a USB hub, it may not charge to full capacity. Make sure that the USB output of your PC accepts 5V/1000mA.
- Do not unplug the USB cable, shut down the PC or use sleep mode while the device is transferring data as it may corrupt the data in the device.

4. Unplug the USB cable from the USB port.

Once data transfer is complete and the battery is fully charged, disconnect the USB cable from the PC first, then from the device.

5. Close the USB connector cover.

To ensure water resistant performance, firmly close the USB cover.

Checking the Battery Level

You can check the battery level with the battery icon on the status bar of the home screen and the menu screen.

- When the battery is running low on power, a warning screen will appear "Battery Level Decreasing." If not recharged, the device will shut down automatically.
- You can also check the remaining battery charge using the [System] item of "Cyclocomputer Settings."

A fully charged battery can run for approximately 12 hours (brightness 5).

- Operating time may vary depending on the operating conditions.
- If the operating time is abnormally short, the battery may need to be replaced. For details, please visit our website.

Installation

Installation on Your Bike

Mount the Cyclocomputer on your bike.

- When you mount the Cyclocomputer on your bike, be sure your bike is in a stable position to prevent it from falling.

1. Remove the bolt from the bracket.

Remove the bolt from the bracket using a 3 mm hex wrench.

- Be careful not to lose the removed bolt.

2. Make sure that the lever on the bracket is pushed towards the bolt's direction.

3. Mount the bracket on the handlebar of your bike.

- Be careful not to pinch your finger when mounting the bracket on the bike.

4. Secure the bracket with the bolt.

Apply anti-seize compound like a grease to the bolt.

Adjust the bracket horizontally from the stem, insert the bolt into the hole and tighten lightly.

5. Attach the strap to the device.

Lace the strap through the lanyard hole for the strap.

6. Attach the device to the bracket.

Fasten the strap to the handlebars. Set the tip of the bracket in the bracket slot on the device and push the device until it clicks.

7. Push back the lever on the bracket to secure the device to the bracket.

8. Adjust the angle of the device, and then tighten the bracket.

If the device is not aligned to the center of the handlebars or not horizontal to the stem, loosen the bolt and realign the bracket.

After adjusting the angle, clamp the temporary joint bolt and tighten the bracket.

Use a tool that can measure the torque to tighten the bolts.

Tightening torque: 1.2 N·m

To detach the device

To detach the device from the handlebar mount, push the lever on the bracket towards the bolt's direction and lift the device.

Installing Sensors

This device is compatible with ANT+™ sensors mounted on your bike.

Refer to the user's manual of your ANT+ sensors for mounting instructions.

After mounting a sensor, perform pairing with the device.

For details, refer to "Pairing Sensors" in the "Basic Operations" chapter of this manual.

This product is ANT+™ certified.

Visit <http://www.thisisant.com/directory/> for a list of compatible products and apps.



Basic Operations

Turning Power On/Off

Turning Power On

1. Press the [START/STOP] button for more than two seconds.

An opening message will appear and the Cyclocomputer will begin start-up.

The setup screen will automatically display for the first-time power-up.

Power Down

1. Press the [START/STOP] button for more than two seconds.

A shut-down message will appear and the system will power down.

Initial Setup

When you turn the device on for the first time, the InitialSetup screen is displayed.

You can also later change the settings you configure on the Initial Setup screen using the "System" item of "Cyclocomputer Settings."

1. Tap [Language] and select a language.

Drag the screen and tap the language that you want to display.

2. Tap [Date & Time] and set the date and the time.

Time Zone	Select a time zone.
Date	Enter the date.
Time	Enter the time.If the [24-Hour Format] check box (below) is cleared, you can specify [AM] or [PM] for the time setting.
24-Hour Format	Check the box to display time in 24 hour format.
Date Format	Select the date format.

After all of the settings are the way you want, press the [Back] button to return to the Initial Setup screen.

For information about touch panel operation and text input methods, refer to "How to Operate the Touch Panel."

3. Tap [Close].

The Initial Setup is finished and CycloMeter starts.

Pairing Sensors

Pair the SGY-PM900 Pedaling Monitor Sensor or other ANT+ sensors to the device.

Before connecting the sensors:

- Make sure that the sensors that you want to pair are activated.
- If more than one sensor is activated, bring the device close to the sensor or specify the device number to pair.
- If you use the speed sensor sold separately and the wheel circumference is different, set the wheel circumference. The wheel circumference is set to 2096 mm by default.

1. Mount the sensors on your bike.

For details about how to mount sensors, refer to the user's manual of your sensors.

2. On the home screen, tap the [Sensors] icon.

3. Tap [Connect New].

This displays the sensor settings menu.

4. Tap [Device Type] and then select the type of sensor(s) you wish to pair.

5. Tap [Search].

The message "Searching Please wait." appears. If the sensors are paired, the information from the sensors is displayed.

6. Confirm the information from the sensors.

Confirm that "OK" is displayed in the [Error Rate] area.

- If "NG" is displayed in the [Error Rate] area, the sensor information is not received properly due to a communication error. Make sure that the sensor is activated, bring the device closer to the sensor and try pairing again.
- You may not pair with the sensor due to the influence of the 2.4 GHz frequency band. If "NG" is displayed even if the device is moved closer to the sensor and paired with it, try again someplace where there is no interference from microwaves, radio waves, or wireless equipment.

Specifying the device number

If you want to specify the sensor device number, follow the procedures listed below before pairing the sensor.

1. Check the [Specify Search] check box in the sensor connection menu.

[Device Number] is displayed in the connection menu.

- Refer to the user's manual of the ANT+ sensor for information about how to look up the device number.

2. Tap [Device Number].

3. Input the device number and tap [Done].

- If you specify the device number, make sure that the specified number is displayed in [Device Number] of the sensor information confirmation screen.

How to Operate the Touch Panel

The display of this device is a touch panel for direct operations.

■ Tap

Quickly touch an item on the screen to select or confirm it

■ Swipe

Move your finger in a vertical or horizontal direction on the screen.

Do this to switch screens or scroll.

■ Long touch

Touch and hold an item on the screen.

Do this to open the pop-up menus.

■ Drag

To move an item on the screen, simply touch the item with your finger and move it to the new location

Precautions when using the touch panel:

- Do not use a hard or sharp object to operate the touch panel, doing so may damage it.
- Do not use commercially available protective sheets or films as they may interfere with normal operation.They may cause the device to not operate correctly.
- You can operate the touch panel while wearing gloves. Apply slightly more pressure than with common touch panels.

Operations List

Scrolling a List

Dragging a list scrolls it.

- Swiping a list scrolls it in the swipe direction at high speed. Tapping the screen while a swiped list is scrolling at high speed stops the scrolling.

Selecting and Clearing a Check Box

Tapping a check box toggles it between being selected and cleared.

A check box is selected when it has a check mark inside it.

Inputting Text

An input screen will appear when text or numeric input is required.

Using the Keyboard for Input (Alphanumeric and symbol input)

A keyboard is displayed on the input screen for alpha characters and symbols. Tap the keys in order for the characters you want to input.

- The keyboard cannot be used to input Japanese and other double-byte characters.

■ Selecting Character Types

Long touch an alpha character or symbol to display a character type menu.

If long touching does not display a character type menu, it means that there are no character type options available for the alpha character or symbol you are long touching.

■ Inputting Fractions

Long touch a number to display a fraction menu. If long touching does not display a fraction menu, it means that there are no fraction options available for the number you are long touching.

10-key Pad Input (Numbers)

A 10-key pad is displayed on the input screen when only numeric input is supported. Tap the keys in order for the numbers you want to input.

Dialog Box Input

An input dialog box will appear when you need to select a numeric value from a preset range.

Tap the value you want to change and then use [+] and [-] to change it.

When the value is the way you want, tap [OK].

- To exit the dialog box without saving the input content, tap [Cancel].

Editing Text

You can select a range of input text in an input box, and perform copy and paste operations. Here we will show an example of selecting text, copying it, and then pasting it.

1. Input characters.

2. Long touch the input box.

This displays the text editing menu.

- The menu items that appear depend on the input content.

3. Tap [Select text].

This changes the cursor in the input space.

4. Drag across the characters you want to select.

This causes the selected characters to become highlighted.

5. Long touch the input box and then tap [Copy].
6. Tap the input box and move the cursor to the location where you want to paste the characters.
7. Long touch the input box and then tap [Paste].

This pastes the copied characters.

Home screen

Viewing the Home Screen and Performing Home Screen Operations

The home screen can be used to start up various device applications.

To display the home screen, press the [BACK] button while an application main screen is displayed.

- You can change the background color of the home screen.

Appendix

Troubleshooting

If you have problems with your device, check the following items. If you cannot find a solution to your problem here, contact your dealer.

■ Will not power up.

The battery is not charged.

- Charge the battery.

The temperature of the device may be too high or low.

- Wait until the device is within standard operating temperature ranges.

■ The battery goes dead soon after it is charged or the message "Shutdown" appears and power turns off when the [START/STOP] button is not pressed.

The battery charge is low.

- Charge the battery.

The built-in battery is dead.

- Replace the built-in battery.

The screen brightness setting is too high.

- A high screen brightness setting can cause the battery to run down quickly. To conserve battery power, use a lower screen brightness setting.

■ The operation button or the touch panel is not responding.

There are numerous possibilities for non-operation.

- Push the [START/STOP] button and [LAP] button at the same time for more than 10 seconds to try the forced reset. After the forced reset, set the [Date & Time]. The log data and setting data will not be deleted by a forced reset as it may cause a malfunction.

■ The touch panel is not responding.

The touch panel cannot sense your input.

- The device has a resistive touch panel. Resistive touch panels require a stronger touch than capacitive touch panels.

The touch panel is locked.

- Press and hold the [MENU] button to unlock. The message appears when it locks.

■ You do not know how to initialize.

- Tap [System]-[Setting Manager]-[Initialize] from the home screen to initialize. If you initialize, the ride log data will be deleted. Save the data to a PC before initialization.

■ Sensor information is not displayed.

The sensor is not paired.

- Check that the sensor is paired to the device properly. If you use the pedaling monitor sensor SGY-PM900, refer to the User's Manual of the SGY-PM900 and Installation Manual.

The sensor battery is almost empty. Or the battery is not loaded in the sensor correctly.

- Replace the battery with a new one. Or check to make sure that the battery is correctly loaded in the sensor. For details about how to replace and load the sensor battery, refer to the sensor user's manuals.

■ Cannot pair sensors with the device.

Multiple sensors are activated.

- Bring the device closer to the sensor you want to pair with or specify the sensor device number and then try pairing.

The battery of the sensor is almost empty. Or the battery is not loaded in the sensor correctly.

- Replace the battery with a new one. Or check to make sure that the battery is correctly loaded in the sensor. For details about how to replace and load the sensor battery, refer to the sensor user's manuals.

■ The latitude and longitude are not displayed.

Reception is poor when inside a room or in areas surrounded by mountains.

It may take a few minutes to display the latitude and longitude when you use the device the first time.

- Use the device outside in an open area. When you use the device for the first time, you may need to allow extra time.

■ The Cyclocomputer is not recognized when connected to a PC.

The Cyclocomputer is not connected correctly to the PC.

- Unplug the USB cable from the device and PC and restart the device. After that, try connecting to the PC with the USB cable again.

■ Response is different from the location touched on the touch panel.

The touch panel is not calibrated correctly.

- Recalibrate the touch panel.

■ GPS information is not received correctly.

Nearby tall buildings or trees are blocking communication.

- Move away from the tall buildings or trees, wait for a few minutes, and try again.

Care, Maintenance, and Storage

Make sure that the power of the device is turned off before cleaning.

- Use a commercial cleaning cloth to clean the display.
- Use a soft dry cloth or a cloth that has been dampened and wrung out to wipe the device or the bracket.
- Do not use benzene, paint thinner, or other volatile chemicals, cleansers, or chemically treated cloths. Doing so could damage the product or cause the paint to peel.
- Discharge the battery and store the device in a cool and dark place if being stored for a long period of time.

Removing the Battery

Remove the lithium-ion battery by the following procedures to dispose of the device.

- Please use caution when removing the battery. Please never attempt to disassemble the device except when you dispose of the battery.

1. Remove the screw of the device.

Use a Phillips-head screwdriver and remove the screws (6) from the back of the device.

2. Remove the back cover of the device and the lithium-ion battery cable from the substrate.

3. Remove the lithium-ion battery from the back cover.

Remove the tape that holds the lithium-ion battery to remove the battery.

Be careful not to damage the lithium-ion battery.

[For American Users, Canadian Users]

Follow applicable laws and regulations for transport, shipping, and disposal of batteries. For details on recycling the lithium-ion battery, please contact a government recycling agency, your waste-disposal service, or visit reputable online recycling sources such as www.batteryrecycling.com

[Pour les utilisateurs américains, utilisateurs canadiens]

Respectez les législations et réglementations en vigueur concernant le transport, l'expédition et l'élimination des batteries. Pour plus de détails concernant le recyclage des batteries lithium-ion, veuillez contacter une agence gouvernementale dédiée au recyclage, votre service d'élimination des déchets ou visitez les sources de recyclage en ligne reconnues telles que www.batteryrecycling.com

Regulatory information

For regulatory identification purposes, your device is assigned a model number of SGX-CA500.

Marking labels located on the exterior of your device indicate the regulations that your model complies with. Please check the marking labels on your device and refer to the corresponding statements in this section. Some notices apply to specific models only.

Regulations statements

FCC



FCC ID: AJDK079

Federal Communications Commission (FCC) Statement

You are cautioned that changes or modifications not expressly approved by the part responsible for compliance could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- 1) this device may not cause harmful interference, and
- 2) this device must accept any interference received, including interference that may cause undesired operation of the device.

For body worn operation, this device has been tested and meets FCC RF Exposure guidelines that position the EUT a minimum of 0 cm from the body.

SAR information: 0.009 W/kg (1g)

Industry Canada (IC)

IC: 775E-K079

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

CE



Products with the CE marking comply with Radio & Telecommunication Terminal Equipment Directive (R&TTE) (1999/5/EC), the Electromagnetic Compatibility Directive (2004/108/EC) and the Low Voltage Directive (2006/95/EC) - issued by the Commission of the European Community. Compliance with these directives implies conformity to the following European Standards:

EN 301 489-1: Electronic compatibility and Radio spectrum Matters (ERM), Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements.

EN 301 489-17: Electronic compatibility and Radio spectrum Matters (ERM), Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for 2.4 GHz wideband transmission systems and 5 GHz high performance RLAN equipment.

EN 300 328: (Bluetooth) Electromagnetic compatibility and Radio spectrum Matters (ERM); Wideband Transmission systems; Data transmission equipment operating in the 2.4 GHz ISM band and using spread spectrum modulation techniques; Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive.

EN 55022: Radio disturbance characteristics

EN 55024: Immunity characteristics

EN 61000-3-2: Limits for harmonic current emissions

EN 61000-3-3: Limitation of voltage fluctuation and flicker in low-voltage supply system

EN 62209-2: (SAR) Human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices – Human models, instrumentation, and procedures – Part 2: Procedure to determine the Specific Absorption Rate (SAR) in the head and body for 30MHz to 6GHz Handheld and Body-Mounted Devices used in close proximity to the body

IEC 60950-1:2005+A1:2009: Product Safety

The manufacturer cannot be held responsible for modifications made by the User and the consequences thereof, which may alter the conformity of the product with the CE Marking.

Declaration of conformity

Hereby, the manufacturer declares that this SGX-CA500 is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

WEEE



This product must not be disposed of as normal household waste, in accordance with the EU directive for waste electrical and electronic equipment (WEEE - 2002/96/EC). Instead, it should be disposed of by returning it to the point of sale, or to a municipal recycling collection point.

RCM

The user needs to switch off the device when exposed to areas with potentially explosive atmospheres such as petrol stations, chemical storage depots and blasting operations.

Bluetooth



QD ID: xxxxxxxx

Safety precautions

About charging

- Use only the charger supplied with your device. Use of another type of charger will result in malfunction and/or danger.
- This product is intended to be supplied by a LISTED Power Unit marked with "LPS", "Limited Power Source" and output rated + 5 V dc / 1.0 A."
- Use a specified battery in the equipment.

About the charger

- Do not use the charger in a high moisture environment. Never touch the charger when your hands or feet are wet.
- Allow adequate ventilation around the charger when using it to operate the device or charge the battery. Do not cover the charger with paper or other objects that will reduce cooling. Do not use the charger while it is inside a carrying case.
- Connect the charger to a proper power source. The voltage requirements are found on the product case and/or packaging.
- Do not use the charger if the cord becomes damaged.
- Do not attempt to service the unit. There are no serviceable parts inside. Replace the unit if it is damaged or exposed to excess moisture.

About the battery

- Use a specified battery in the equipment.
- CAUTION: The battery can burst or explode, releasing hazardous chemicals. To reduce the risk of fire or burns, do not disassemble, crush, puncture, or dispose of in fire or water.
- Important instructions (for service personnel only)
 - Caution: Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.
 - Replace only with the same or equivalent type recommended by the manufacturer.
 - The battery must be recycled or disposed of properly.
 - Use the battery only in the specified equipment.

Note

The battery operating time may decrease depending on the operating conditions.

ANT+ is a wireless personal network protocol with very low power requirements using the 2.4 GHz frequency band. For more information, visit <http://www.thisisant.com/>

Specifications and design are subject to possible modifications without notice due to improvement.

Illustrations used in this manual may be different from the actual device.