



DIVE DEMO SOLIS

Watch & Dive Computer Operating Manual

Introduction

Thank you for purchase of our product.

This product is diving gear for recreational diving use. It monitors depth and time, and displays information useful for safe recreational diving.

This manual provides instructions on how to use your Dive Computer for recreational diving. We believe this manual is useful in learning the right usage of a Dive Computer for people who use it at C-card training as well as people who have obtained a C-card through proper training at an internationally recognized diving instruction organization.

Please carefully read and digest the contents of this manual before use. We also suggest that you take this manual with you to refer to before diving.

Keep this manual in a safe place. Should you lose it, contact your original dealer or authorized distributor of our company for a replacement. We are constantly researching and improving our Dive Computers, and so the product you purchased may differ in certain details from the one described in this manual. If you have any queries regarding the Dive Computer or the information contained in this manual, please feel free to contact our company at the following address.

Bism CORPORATION

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Safety Precautions

It is vital to safety that you use and maintain your Dive Computer correctly and have it inspected periodically. Carefully read and understand the advice on safety given in this manual before diving.

We use a various symbols in this manual and on the product indication to have you use the product correctly and safely, and to prevent the danger and damage to the property of you and other people.

The indications and their meanings are as follows;



Danger is used to indicate the presence of a hazard which highly causes severe personal injury, death if the warning is ignored.

A

Warning Warning is used to indicate the presence of a hazard which can probably cause severe personal injury, death if the warning is ignored.



Caution Sused to indicate the presence of a hazard which can possibly cause personal injury, property damage if the caution is ignored

[Note]: Useful Information to know.



- Before use of this product, obtain a C-card after completing a proper training program at an internationally recognized diving instruction organization, and be familiar with the proper use of a diving gear, or use it under the direction of the diving instruction organization. It may cause accident resulting in injury or death
- Never dive without a buddy. Make sure you keep buddy system. The diving without a buddy is very
 dangerous as it may lead to a serious accident.
- When you use it for Nitrox (EANx) diving, you are required to attend and complete a class of the Nitrox (EANx) diving. Please do not use it for the Nitrox (EANx) diving if you do not take and complete the lectures.

Reference: EANx: Enriched Air Nitrox (Abbr.: Nitrox)

The mixed gases which raised a ratio of oxygen than usually use compressed air (21% of FO2).

•Please always set the fraction of oxygen (FO2) every diving. It is very dangerous when the fraction of oxygen (FO2) of the tank and the setting value of this product are not equal.

A	Dange
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- Before use of this product, please recognize nandling methods, warnings and cautions in this manual. In addition, please understand how to use it before you actually use it in the ocean.
- When the warnings of decompression stop violation and violation gauge are displayed, always cancel the diving of the day, and a symptom like decompression sickness appears, see a specialist doctor for the medical examination.
- •When abnormality occurs to this product, stop to use it immediately, and please consult with your original dealer or authorized distributor of our company.

Warning

- •When you perform scuba diving, please always perform it with good health condition. When you feel uneasiness in physical condition, avoid unreasonableness and stop the diving.
- •Avoid to drink alcohols and to take medicines before performing scuba diving. Those who are in bad physical condition and are with the chronic disease have to see a doctor beforehand.
- •This product is designed with a normal healthy person of average physical strength as a standard.
- •Each diver is requested to take own responsibility to make and accomplish the safe diving plan that fitted oneself each.
- This product cannot always prevent conditions such as decompression sickness. Dive more cautiously
 than the display data indicate. Otherwise it may cause decompression sickness and other diseases
 come from diving.
- Do not attempt decompression diving. This product is designed for no-decompression diving. Although
 it will do decompression calculations in an emergency if you accidentally enter a decompression dive,
 diving under such condition may cause accident resulting in injury or death.
- •Do not use this product in a purpose except the recreational diving.
- •This product is designed for diving using compressed air (21% of FO2) and Nitrox (EANx) gas (22-50% of FO2). It cannot be used for other mixed gases.
- •Do not fly or ascend to high place within 24 hours after diving. There is high possibility that you suffer from decompression sickness due to the drop in barometric pressure. We recommend that you should rest for at least 24 hours, or 48 hours if possible, before flying or ascending to altitudes.
- Please follow the display of warning and caution message of this product immediately. Otherwise, it is much possible that you suffer from decompression sickness.

🛕 Warning

- •Use other equipment as backup (a depth gauge, diver's watch, etc.) with this product together when using this product.
- •This product does not measure, display or control your remaining air in a tank. Use a pressure gauge to check your air supply.
- In the state that residual nitrogen remains after using this product, you must not lend it to or share it with another person.
- •Do not use the data of this product as data of divers other than a user.
- Do not disassemble, repair, modify, replace a rechargeable battery or chamber test under pressure by yourself. It causes the trouble when you perform these things in a state without appropriate knowledge and is very dangerous.
- When you remove the battery (rechargeable battery) used in this product, prevent you from swallowing it by mistake. Please put the battery out of reach of small child. Please see a doctor immediately when child swallows it by any chance.
- Regardless of frequency in use, please check the product regularly once a year. Particularly, when you do not use it more than three months from the last season, please use it after checking it.



- Solvents such as gasoline, sprays and cleaners such as cosmetic, adhesives and paints will adhere
 to the product, and substances such as alkali and acid cause it to deteriorate. Please mind these
 chemicals as they may damage the product and reduce its waterproofness.
- •Do not blow air at high pressure. This could damage the sensor.
- Because a sensor of this product is a precision instrument, never dismantle it. In addition, do not
 push the sensor part with a thin stick, and, mind so that garbage and dust do not enter the sensor. In
 the case of use in seawater, always wash it away with fresh water as it may lead to the trouble of the
 sensor.
- Please do not leave the product in the dashboard of the car or the place near the heater where the temperature becomes high. In addition, please do not leave it for a long time in the cold place either as they cause the trouble such as delay, progress and stop of the time.
- •Please be careful that liquid crystal screen may be affected when you leave the product in the place where the temperature is more than +60 C for a long time. The liquid crystal display may become hard to show indication under the temperature less than 0 C and more than +40 °C.

- Please keep a record of the data memorized in this product in the notebook, etc. Memory data may be lost by trouble, repair and low battery of the product.
- When you watch the information displayed by this product, for the prevention of the unexpected injury
 and accident, please do it at the place where the safety is secured enough. Please be careful
 watching the display as it may cause the accident during diving in particular. In addition, please be
 careful enough about accident prevention by the contact to a third party.
- Because the metal portion of the main body and the belt produces rust from a dirt and may pollute the cuffs of clothes, please use it as always keeping it clean. Particularly, it becomes easy to be rusted after having used it in the seawater and leave it as it is.
- You may get a rash from the body and the belt depending on a using condition, as they touch direct your skin.
 - 1. Allergy for metal and the plastic.
 - 2. The dirt, rust and sweat, etc. of the body of the product and the belt.
 - 3. Poor physical condition, etc.
 - •When you fasten a belt too tightly, it becomes easy to sweat and the air does not flow smoothly, then it becomes easy to get a rash. In normal use, please fasten the belt with some room.
 - •When abnormality occurs to your skin by any chance, stop to use it, and please see a doctor.
- In order to prevent the rash due to unexpected injury and allergy, please take off the product at the time to go to bed.
- •When you embrace or contact an infant, in order to prevent the rash from an injury and allergy of the infant, please take off this product.
- When a product protection seal is put on the body, including the battery hatch, and the belt, please remove it off completely before start to use. Otherwise dirt attaches to the opening between "the body and belt" and "the seal" and may cause rust and the rash.
- •When auto light switch is on, if you drive a car while wearing the product to your arm, the light turns on unexpectedly and it disturbs the driving. So please stop to wear the product while driving as it is dangerous and it may cause the traffic accident.
- •Do not remove the battery hatch on the case back. It causes submergence and the trouble.
- . Low battery, static electricity and shocks may cause trouble, computer resetting and log data loss.



- Though magnetism does not affect the operation of the product, please be careful that it affects the
 precision if the product itself becomes magnetized. In addition, please also be careful that the
 extremely strong magnetism such as the medical equipment causes malfunction and damage of
 electronic parts.
- When the plastic parts stick firmly to other products or leave with other products while being wet for long time, as it discolors or the color of other products may move to the plastic parts, please wipe off water immediately and on to keep on sticking to other products.
- •When the plastic parts are exposed to the direct rays of the sun (ultraviolet rays) and are left with a dirt for long time, the plastic parts may fade in color.
- •The painted parts may wear and discolor caused by the working condition such as excessive external force, continued rubbing and shocks.

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NAMES OF PARTS, MAIN FUNCTIONS AND SPECIAL FEATURES

DIVE DEMO SOLIS



NAMES OF PARTS, MAIN FUNCTIONS AND SPECIAL FEATURES



This product has 5 operation buttons. Upper left - M (Mode) button

Upper right - P (Plan) button Lower right - L (Log) button

Lower left - A (Adjust) button

Lower center - B (Backlight) button

In this manual, they are described under the name of M button, P button, L button, A button and B button respectively.

Function as watch

This product has 8 kinds of watch modes. Watch Mode 1 "TIME 1" display Hour/Minutes, Date, Day of the week Watch Mode 2 "TIME 2" display Hour/Minutes. Date. Seconds "COMP" display Direction Reading Measurement of direction and angle value Stopwatch "STW" display Measurement of the elapsed time oTimer "TMR" display Setting and measurement of timer ○Alarms "ARM" display Setting of alarms and hourly time signal World Time "WT" display Display the time of 48 cities, 31 time zones, of the world Tide / Lunar Age / Sunrise Sunset "TIDE" display Display low and high tide, moon phases and sunrise sunset. Barometric Pressure Indication "BARO" display Measurement of barometric pressure and temperature

NAMES OF PARTS, MAIN FUNCTIONS AND SPECIAL FEATURES

Functions as Dive computer

This product has 6 kinds of oDive Mode	dive computer modes. "DIVE" display
No-decompression limit	
Safety stop	
Decompression diving	
Nitrox	
 Free Dive Mode 	"FREE" display
Depth gauge	
Elapsed dive time	
Log (Free dive only)	
 Gauge Dive Mode 	"GAUGE" display
Depth gauge	
Elapsed dive time	
◦Surface Mode	"TIME 1 and 2" display
Desaturation time	
Surface time	#LOOT 1: 1
oLog Mode	"LOG" display
Dive log	
(Dive profile)	
Free dive session log	"DLAN" diaplay
	PLAN display
Erection of ovurgon 4 ar	n tonko
Praction of oxygen, 4 ga	15 Idiins
Sefety feeter	
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NAMES OF PARTS, MAIN FUNCTIONS AND SPECIAL FEATURES

Time accuracy	:	±15 seconds a month
Sensor precision		
Bearing sensor	:	Within ±10°
Temperature sensor	:	Within ±2 °C
Pressure sensor	:	±1% + 0.5m
Measuring interval		
Depth measurement	1	1 sec.
Water temperature measurement	1	1 sec.
Barometric pressure measurement	:	20 sec.
Measuring range		
Depth	1	1.5m~99.9m
Dive time	:	0~599 min.
Operating barometric pressure	:	More than 460 hPa (Approx. up to 6,000m)
Temperature	:	-10 °C ~ 60 °C
Direction	:	0~359°Bearing sensor calibration function
(Bidirectional calibration-		
Fraction of oxygen	:	21% (compressed air)~50%
Waterproof	1	100m
Log data	:	Scuba diving log / Free diving log
"30 dives (30 dives includin	g so	cuba diving log and free diving log)"
Battery	:	Rechargeable battery
		Operating time from the full charge condition without the solar generation:
		Approx. 1 month (1 one-hour dive a day)
Decompression model	:	A. A. Buhlman 16 tissue

[Note]

About the battery life time, this product works with battery (rechargeable battery) which charges the electricity generated by solar panel. When you take off the product, put it in a bright place getting light. It can be more stable to use when you expose it to the light for approximately half day a month to charge it. When you ware it on your wrist, please keep it in mind so that the culf of clothing does not cover the dial (solSar panel) of the product. When the dial (solF panel) hides even partly, generation efficiency decreases.

BEFORE USE

Before using this product, "charge" and "the setting of the time and date" are necessary. Please use it after charge it enough and set the display of time and date.

Confirmation of Charging Amount

Charging status Please confirm the charging status by "H", "M" and "L" displays at the right side of the screen.

"H" lights up. "M" lights up. Battery is charged.

→ Please go to "Home city setting and the time adjusting" (To p.20)

"LOW" flashes. "L" lights up. "CHG" flashes.

Charging amount is not enough.

 \rightarrow Expose the product to the light to charge. (To p.16)



Battery indicator



Battery indicator

BEFORE USE

Charge by Light (Solar Charge)

This product works with battery (rechargeable battery) which charges the electricity generated by solar panel.

- •Solar panel is united with dial.
- •When the dial gets enough light, it generates and charges.

When you use it, please keep it in mind to expose the dial (solar panel) to light.

How to charge

When you take off the product, put it in a bright place getting light.

It can be more stable to use when you expose it to the light for approximately half day a month to charge it.

When you ware it on your wrist, please keep it in mind so that the cuff of clothing does not cover the dial (solar panel) of the product. When the dial (solar panel) hides even partly, generation efficiency decreases.

•When you charge the product, the body may become very hot depending on a condition and the environment of the light source. Please be careful not to burn yourself. In addition, please avoid to charge under the following high temperatures.

- On the dashboard of a car parking under hot weather.
- The place close to the heating element such as incandescent lamps.
- The place where the temperature becomes high because of the direct sunlight for long time.

•Liquid crystal panel may become black under the extreme high temperature, but comes back normally if temperature falls.

el) hides



CHARGE BY LIGHT (SOLAR CHARGE)

Shortage of and Out of Battery

DISPLAY	CHARGING STATUS	CONDITION OF THIS PRODUCT	
н	Good condition	Normal condition	
М			
Just "CHG" flashes	Shortage of battery	When just a letter of "CHG" flashes, and other indication lights up as usual, it cannot move to the dive mode. You cannot use it in diving. Other functions are available as usual.	
"LOW" or "L" flashes		When "LOW" and "L", sometimes "L" only, flashes, you cannot use the following functions. • Dive mode • Direction reading • Light on • Sound (such as alarm)	
"H", "M", "L" and "CHG" flashes		When "H", "M", "L" and "CHG" flash together, you can use some functions including the indication of the current time.	
Just "CHG" flashes (All lights out)		When just "CHG" flashes, and all other indication disappear, you cannot use all functions.	
All lights out	Out of battery	All breakdowns. Condition of the initial setting (at the time of factory shipment).	

[Note]

- Functions stop if the product becomes out of battery, and all setting returns to the state of the initial setting (at the time of factory shipment). When you set various functions such as the time and the date again, please charge it until display at right side of the screen becomes "M" or "H".
- When you charge the product at the place getting direct rays of the sun and strong light, it
 may display the charging level higher than the actual one temporarily.

CHARGE BY LIGHT (SOLAR CHARGE)

Charging Time

Please use the list below as the Standard Time of charge.

Time required for charging a battery.

ENVIRONMENT (ILLUMINATION)	CHARGING TIME FROM CHARGING LEVEL WARNING TO THE STATE BECOMING ABLE TO DIVE	CHARGING TIME FROM CHARGING LEVEL WARNING TO THE STATE OF FULL CHARGE
Outdoors on a fine day (50,000 luces)	Approx. 1 hour	Approx. 8 hours
Window side on a fine day (10,000 luces)	Approx. 2 hours	Approx. 30 hours
Window side on a cloudy day (5,000 luces)	Approx. 4 hours	Approx. 60 hours
Indoors under fluorescent light (500 luces)	Approx. 36 hours	

* Actual charging time varies depending on environment.

Charging Level Warning

Charging level warning is the function to urge charge by alarm and a message when charging amount falls down to a certain battery level in order to use it in diving safely.

As sensors do not work when the charging level becomes "L", you cannot use this product for diving. For example, when you start diving in the state of charging level of "M" and becomes "L" in the middle of diving, the product cannot display the information about the diving. In order to avoid such a dangerous condition, the product has the mechanism to urge charge until it becomes "H" and prevent you from diving until it gets "H" when the charging amount is less than certain battery level.

MODE BEING USED	WARNING TO BE DISPLAYED
Watch Mode and Surface Mode	Letter of "CHG" flashes
Dive Mode	"WARNING! ! BATT " is displayed 5 times as flowing, and at the same time, "M" icon at the right side of the screen flashes. Alarm sounds for six seconds.

* The warning continues until the charging level becomes "H". Meanwhile, you cannot use it for diving.

CHARGE BY LIGHT (SOLAR CHARGE)

Power Saving Function

Power saving function is the mechanism which becomes the power saving state automatically when you put this product in the dark place from 10:00 p.m. to 6:00 a.m. A power saving state has two phases of level 1 and level 2.

POWER SAVING LEVEL	TIME REQUIRED TO START POWER SAVING	CONDITION
Level 1	Approx. 1 hour after putting it in the dark place.	Sensors stop in Watch Mode.
Level 2	When the state of Level 1 continues for 6 to 7 days.	Only a watch function works.

You can cancel the power saving state by the following methods.

-Depress either button.

-Put the product in the bright place.

-Angle the product to turn on "Auto Light Switch".

[Note]

- •When you wear the product, it may become the power saving state when solar panel is covered by a cuff.
- •It does not become the power saving state at the time of Stopwatch Mode, Timer Mode and Dive Mode.

•You can turn power saving function on and off. (Refer to p. 123)

WATCH MODE

In Watch Mode, you can set and display the current time and a date. Display is switched by depressing the A button.



Home City Setting and the Time Adjusting

Select the city of the place using the product as the Home City in the same time zone from 48 cities (31 time zones) in the City Code Table. Also select Standard Time or Summer Time (DST) depending on a country and an area to use the product.

* When you use it in Japan, select the city in Tokyo (TYO).

[Note]

 The Summer Time, also called DST (Daylight Saving Time), is the system adjusting 1 hour faster from the normal time (Standard Time). An enforcement period and the enforcement area of the Summer Time vary according to a country. In addition, there is a country and the area that do not adopt the Summer Time system.

Home City and Summer Time Setting

 While in the Watch Mode, continue to depress the A button for more than 2 seconds. Release the button when a City Code and its city name are displayed as flowing following the display of "CITY" for about 1 second after "SET" "Hold" flashes.

Select a City by depressing P button or L button.
 Depress P button or L button until it displays the City you need.
 Continue to depress P button or L button for fast-forward.

3) Depress M button.

4) Depress P button and select Summer Time (DST) setting.

It switches on and off by depressing the P button as follows.

"DST OFF" : Displays Standard Time.

"DST ON" : Displays Summer Time.

5) Depress A button.

Setup is completed.

When Summer Time DST) is on, the screen displays "DST" while in Watch Mode.

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•When you select "UTC" (Universal Time Coordinated) as the Home City, the Summer Time (DST) setting cannot be changed.

•Please refer to "City Code Table" as to the City Code. (p. 134)

Watch and Date Setting

Please do not set the watch and date before setting Home City.

- While in the Watch Mode, continue to depress A button for more than 2 seconds. Release the button when a City Code and its city name are displayed as flowing following the display of "CITY" for about 1 second after "SET" "Hold" flashes.
- 2) Depress M button and select the item to set up.

Setup item changes by depressing the M button as following order.



* The number expresses the number of times to depress the M button.

3) In each setup item, depress P button (UP) or L button (DOWN) to change the setup.

Display Item to Change	Button
TYO·····Change the city code·····	P or L button
OFF ····· Switch the Summer Time (D	ST) and Standard Time. P button
12H·····Switch the 12-hour and 24-hour	our formatP button
50 ····· Reset the seconds to "00". ·	·····P button
When the seconds count is b	etween 30 and 59,
one is added to the minutes	count.
10:58 ····· Change the hour or minutes	·····P or L button
2014 ····· Change the year. ·····	·····P or L button
2,17 ·····Change the month or day	·····P or L button
 Press A button twice. Setup is completed. 	

[Note]

- •While the 12-hour format is selected, "P" as p.m. indicator lights up for the times from noon to 11:59 p.m. With 24-hour format, "P" does not light up.
- •Once you set the date, it allows different month lengths and leap years. (Full automatic calendar up to 2099.)
- •Once you set the year, month and date, the day of the week is set automatically.
- When you use the product at the place except the Home City, please reset similarly the city at which you stay as the Home City.
- •You can change unit of temperature and depth when you set the Home City in any place other than Tokyo (TYO). Please refer to "Unit Setting" in page 79 for the way of setting.
- •As to the settings after the time and date, please refer to "Other Settings" in page 76.

Point Setting

Do not set points before setting the home city.

For the home city, set the city in the same time zone as the place where this product is used, from the 48 cities (31 time zones) in the city code list. In addition, by selecting points (94 areas), you can check the ebb and flow, lunar age, and sunrise / sunset.





1) While in the Watch Mode, continue to depress A button for more than 2 seconds.

•Release the button when a City Code and its city name are displayed as flowing following the display of "CITY" for about 1 second after "SET" "Hold" flashes.

2) Depress A button.

•Release the button when an Area name and Point are displayed as flowing following the display of [POINT] for about 1 second.

3) Depress P button (UP) or L button (DOWN) to change the Point.

4) Depress A button.

- •Setup is completed.
- •It returns to the Watch screen.

•As to the "Point", please refer to "Point Code List" in page 137.

DIVE MODE (DIVE) **DIVE MODE** No button operation Watch Mode Surface Mode When you ascend to the depth of 1.5m When you descend deeper than 1.5m for less than 20 seconds Page 34 WATER Dive Mode Safety Stop (No-decompression Diving) Screen Page 28 Page 33 Dive Mode Dive Mode Decompression Diving Decompression Diving (Under Decompression Before Decompression Stop) Stop) PAge 42 Page 45



In the Dive Mode, it displays important information necessary at the time of scuba diving.



This product enters to Dive Mode automatically within 20 seconds after entry and sensing pressure of the water equivalent to the depth of 1.5m. When you want to change it to Dive Mode at the time of entry immediately, please change it manually by depressing B and M buttons at the same time just before diving. It keeps the Dive Mode for one minute.

When no-decompression limit becomes less than 3 minutes, alarm starts to beep for 3 seconds.

[NOTE]

•This product judges that the diving starts when you descend deeper than 1.5m, and start counting of the elapsed dive time.

When in no-decompression diving, the following information is displayed. No-decompression Limit (NDL).....Possible time to stay at the current depth as no-decompression. *Maximum 200 minutes ○Current Depth (DEPTH)······Current depth of water. It displays by 0.1m unit starting from 1.5m. *Maximum 99.9m • Elapsed Dive Time Time elapsed since the start of diving. *Maximum 599 minutes. Tissue Loading Bar Graph.....Displays degree of risk of the quantity of nitrogen (TLBG) accumulated in the body tissue with ten phases. Oxygen Accumulation (O2) or ······Displays degree of risk of the quantity of oxygen Partial Pressure of Oxygen (PO2) accumulated in the body or current partial pressure Bar Graph of oxygen with ten phases. *Displays either one with higher risk. Maximum Depth (MAX).
 Maximum depth reached during the dive. *Maximum 99.9m Current Water Temperature Displays current water temperature. oCurrent Time Displays current time with hour, minutes and seconds. (TIME 2 screen) oDirection and Angle Value Direction reading. Stopwatch
 Construction
 Measuring



Basic screen

No-decompression limit Basic screen of Dive Mode displays the following information

- •Elapsed dive time (Minutes)
- No-decompression limit (Minutes)
- Current depth
- •Tissue loading bar graph (TLBG)
- •Oxygen accumulation (O2) or partial pressure of oxygen (PO2) bar graph

Display position of the current depth and no-decompression limit interchange when you depress the P button.

Display goes back to the basic screen in 4 seconds automatically.

blo-decompression limit Depth" as a basic display or the one with Dogen Accumulator (22) or No-decompression Limit" as a basic display. (Proz) ar Graph (Please refer to "DI SP Screen Setting" of "Other Settings" in page 124)



 Depress M button to display digital compass reading screen.

Digital compass reading screen displays the following information.

- •Current time
- Direction
- Angle value

Depress P button for remeasurement. Depress M button to display Stopwatch screen.

Please refer to page 98 as to directionreading.



 Depress M button twice to display Stopwatch screen.

Stopwatch screen displays the following information.

Current Time
 Measurement Time

Depress M button to return to the basic screen.

Please refer to the page 102 as to the Stopwatch.



 Depress A button to display maximum depth screen.

Maximum depth screen displays the following information.

Current water temperature

- No-decompression limit (Minute)
- Maximum depth

Display goes back to the basic screen in 4 seconds automatically.

Depress L button to display watch screen.



Watch screen displays the following information.

- Date
- Seconds
- Hour
- Minutes

Watch screen is displayed for 1 minute. After 1 minute, it goes back to the basic screen automatically. For immediate return to the basic screen, please depress L button.

Safety Stop

This product has a function to recommend "Safety Stop" for 3 minutes at the 5m depth.



When you ascend in a nodecompression diving condition after having descended to the depth deeper than 10m, 3-minute timer starts automatically from the depth of 6.5m and continues while you stay at the depth of 1.0m to 9.9m. We recommend that you perform "Safety Stop" until the 3-minute countdown is completed without ascending to the surface of the water.

1)At the depth of 6.5m, safety stop alarm starts to beep.

- STOP indicator lights up.
- 2)Countdown timer is displayed as "SAFE → 5m → 03:00", and 3-minute timer starts. Also, the timer displays as "SAFE → 5m → 02:30" and "SAFE → 5m → 02:00" every 30 seconds until the last 1 minute, and it displays only countdown indication for the last 1 minute.
- 3)As "
 ↑ OK " is displayed for 5 seconds at the time of 3 minutes have elapsed, please start to ascend to the surface of the water.

Safety Stop completes;

- When 3 minutes have elapsed.
- When you ascend to a depth of less than 1.5m.
- When you descend to the depth deeper than 10m again.

(When you ascend to the depth of 6.5m again after descending to the depth deeper than 10m again, the countdown begins all over again.)

Surface Mode

Surface Mode is a display mode when residual nitrogen is still in the body tissue after diving.



In addition to the current time, date and day of the week displayed in a normal Watch Mode, it displays desaturation time and surface interval time.

In addition to the current time, date and day of the week displayed in a normal Watch Mode, it displays desaturation time and surface interval time.

Surface Mode screen displays the following information.

```
    Desaturation Time (DESAT) · · · · · The time when nitrogen accumulated in the body tissue
is released outside a body
```

∘Surface Interval Time(SURF. T) · · The time elapsed since the last diving.

•Airplane Boarding ••••••• Prohibition Indicator	Prohibit to board to airplane. (Prohibit it during lighting)
 Tissue Loading Bar Graph · · · · · · 	Displays degree of risk of the quantity of nitrogen
(TLBG)	accumulated in the body tissue with ten phases.
 Oxygen Accumulation (O2) or · · · · 	Displays degree of risk of the quantity of oxygen
Partial Pressure of Oxygen (PO2)	accumulated in the body or current partial
Bar Graph	pressure of oxygen with ten phases.
	*Display either one with higher risk.

- When nitrogen and oxygen remaining in the body tissue disappear, Surface Mode returns to Watch Mode automatically.
- •Even a state with nitrogen and oxygen remaining in the body tissue, when it passes for 48 hours, the screen returns to the Watch Mode automatically.
- •Airplane boarding prohibition indicator continues turning on for 24 hours after diving. Even if nitrogen and oxygen remaining in the body tissue disappear and the screen returns to the Watch Mode, the indicator turns on until it passes for 24 hours.

Warning

Never board to airplane in the following states. The risk to contract decompression sickness increases.

· When the airplane boarding prohibition indicator turns on.

· When desaturation time (DESAT) still remains.

Repetitive Diving

When you descend to the depth deeper than 1.5m again after having changed from Dive Mode to Surface Mode, this product judges it as repetitive diving (A new diving).

 $\bullet A$ timing to change to Surface Mode is 10 minutes after you ascend to the depth less than 1.0m

Nitrox (EANx) Diving

•EANx : Enriched Air Nitrox (Abbr. : Nitrox)

The mixed gases which raised a ratio of oxygen than compressed air (Fraction of oxygen 21%) of usually use

This product can be used for diving with up to 4 gases, typically compressed air with 21% oxygen and EANx with 22-100% oxygen.

In the case of diving using Nitrox (EANx), this product monitors influence on human body with oxygen by the fraction of oxygen and the depth in consideration of oxygen poisoning by the excess oxygen absorbed to the body tissue in addition to the normal diving display.



When it is Nitrox (EANx) diving, the screen displays the following information.

· Nx mark lights up

Nitrox (EANx) setting with fraction of oxygen 22 to 100% is selected, Nx mark lights up in all mode except Log Mode.

It always monitors oxygen accumulation (O2) and partial pressure of oxygen (PO2) even when using compressed air with fraction of oxygen 21%.

As to the setup of fraction of oxygen, please refer to "Plan Mode, Fraction of Oxygen Setting" in page 73.
Diving with Multiple Gas Settings (Gas Change)

The normal screen when multiple gas is set is the same as the basic screen in dive mode, except that the [Nx] mark is lit as in the Nitrox setting.

Warning

• If you will use this product for diving that involves underwater gas change, please take the course of underwater gas change before use.

[Note]

•GAS1 is applied at the start of the diving.

 When you start diving with air and change the gas to Nitrox underwater, set 21% as fraction of oxygen toGAS1. From GAS2, set the fraction of oxygen of Nitrox.



The basic screen when multiple gas is set.

The basic screen when multiple gas is set displays the following information.

- •Elapsed Dive Time (Minute)
- No-Decompression Limit (Minute)
- Nx mark
- Current Depth
- •Tissue Loading Bar Graph (TLBG)
- •Oxygen Accumulation (O2) or Partial Pressure of Oxygen (PO2) Bar Graph



Depress A button to display Maximum Depth screen.

The Maximum Depth screen when multiple gas is set displays the following information.

- •Current Water Temperature
- Selected Gas No. (GAS1-GAS4)
- Maximum Depth

Only when multiple gas is set, the selected gas number is displayed instead of the no-decompression dive time.

Display goes back to the basic screen in 4 seconds automatically.



Depress and hold A button to display Gas Changing screen.

The Maximum Depth screen when multiple gas is set displays the following information.

•Elapsed Dive Time (Minute)

- •Selected Gas No. (GAS1-GAS4)
- •Fraction of Oxygen of the Selected Gas and Current Depth

(Display changes every second.)

How to change the selected gas.

- 1) Depress and hold A button in the basic screen (about 2 seconds).
- 2) Depress P button (UP) or L button (DOWN) to set the Gas No. (GAS1-GAS4).

3)Depress A button to return to the basic screen.

•Gas change is completed.

 Gas can be changed by this operation, but if the depth is deeper than the maximum operating depth, the gas change is not possible and the display will not change even if the button is depressed.

 When the diving depth becomes deeper than the maximum operating depth of the currently selected gas while the gas change screen is displayed, the buzzer sounds once and the gas changes to the gas that can be changed. (Unconfirmed state) It is possible to change the gas by ascending to the maximum operating depth and performing the gas change operation again.

•After a few minutes on the gas change screen, the gas currently selected is confirmed and the screen returns to the basic screen.

•The maximum operating depth is set at partial pressure of oxygen 1.6 bar. However, on the gas change screen, the Nx mark blinks when the partial pressure of oxygen exceeds 1.4 bar.

•The Nx mark will blink for up to 24 hours on the surface screen after diving with multiple gas setting or with Nitrox setting. If you enter the gas setting screen and check the fraction of oxygen while the Nx mark is blinking, the Nx mark blinking will disappear.

If you dive while the Nx mark is blinking, the buzzer will sound for 6 seconds, and for safety it will be calculated with 50% oxygen and 79% nitrogen, so be sure to check the gas settings in the "Plan Mode".

Dive Mode (Decompression Dive)

Decompression Dive Warning

The warning activates when the no-decompression time is exceeded and decompression stop becomes necessary.



1)DECO Mark lights up, Tissue Loading Bar Graph (TLBG) and Current Depth flash.

2)Alarm sounds for 6 seconds.

- 3)After that, the screen switches to the Decompression Dive Screen (Before Decompression Stop) automatically. (Page 42)
- 4)When you complete the decompression stop at the depth required, DECO mark lights off, Tissue Loading Bar Graph (TLBG) switches to light up, and it becomes no-decompression dive.
- . If warning occurs even once, it will be recorded on dive log.

Decompression Dive (Before Decompression Stop)

When the screen switches to Decompression Dive (Before Decompression Stop), decompression stop depth is displayed.

It displays the depth every 3m depending on the diving situation. (Decompression stop depth display, 3~33m)

At the time of decompression dive (Before decompression stop), it displays the following information.

 Decompression Stop Depth Decompression stop depth is displayed every 3m depending on the diving situation. 	
•DECO ······ Decompression stop mark. When you exceed no-decompression limit, this mark turns on.	
 Current Depth (DEPTH) ······Current depth of water. It displays by 1m unit starting from 1.5m. *Maximum 99.9m. 	g
 Elapsed Dive Time • · · · · · · · · Time elapsed since the start of diving. *Maximum 599 minutes. 	
 Tissue Loading Bar Graph TLBG) Displays degree of risk of the quantity of nitrogen accumulated in the body tissue with ten phases. 	
 Oxygen Accumulation(O2) or ······ Displays degree of risk of the quantity of oxygen Partial Pressure of Oxygen (PO2) Bar Graph Bar Graph Displays either one with higher risk. 	
 Total Ascent Time (TOTAL)Time required to ascend from present depth to surface at proper speed with decompression stop. 	
 Maximum Depth (MAX) ······Maximum depth reached during the dive. *Maximum 99.9m 	
 Current Water Temperature ······Displays current water temperature. 	
 Current Time ·····Displays current time with hour, minutes and second (TIME 2 screen) 	s.
 Direction and Angle Value ·····Direction reading. 	
oStop Watch ············Measure time.	



 Decompression Dive Screen (Before Decompression Stop)

Decompression dive basic screen of Dive Mode (Before decompression stop) displays the following information.

- Elapsed dive time (Minutes)
- Decompression stop depth
- Current depth
- •Tissue loading bar graph (TLBG)

•Oxygen accumulation (O2) or partial pressure of oxygen (PO2) bar graph

Display position of the decompression stop depth and current depth interchange when you depress the P button.

Display goes back to the decompression dive basic screen (Before decompression stop)in 4 seconds automatically.



Depress A button to display maximum depth screen.

Maximum depth screen displays the following information.

- Current water temperature
- Total ascent time (TOTAL)
- Maximum depth

Display goes back to the decompression dive basic screen (Before decompression stop)in 4 seconds automatically.



 Depress M button to display digital compass reading screen.

Digital compass reading screen displays the following information.

- Current time
- Direction
- Angle value

Depress P button for remeasurement.Depress M button once to return to the decompression dive basic screen (Before decompression stop).



Decompression Dive (Under Decompression Stop)

When you ascend to the decompression stop depth, the screen switches to decompression dive (Under decompression stop), "STOP" mark turns on and a decompression stop timer starts.

•Stop range of the decompression stop is an interval of -0.5<Decompression stop depth<+1.0m.

When your depth is within the range, it starts countdown.

(Example) In the case that the decompression stop depth is 3m, interval of 2.5 to 4m is the stop range.

At the time of decompression dive (Une information.	der decompression stop), it displays the following
Decompression Stop Depth ······	Decompression stop depth is displayed every 3m depending on the diving situation.
ODecompression Stop Timer ······	It displays the time necessary for decompression stop.
∘DECO·····	 Decompression stop mark When you exceed no-decompression limit, this mark turns on.
oCurrent Depth (DEPTH)······	 Current depth of water. It displays by 1m unit starting from 1.5m, *Maximum 99.9m.
• Elapsed Dive Time · · · · · ·	 Time elapsed since the start of diving. *Maximum 599 minutes.
 ○Tissue Loading Bar Graph · · · · · · · · · (TLBG) 	•Displays degree of risk of the quantity of nitrogen accumulated in the body tissue with ten phases.
•Oxygen Accumulation (O2) or Partial Pressure of Oxygen (PO2) Bar Graph	 Displays degree of risk of the quantity of oxygen accumulated in the tissue or current partial pressure of oxygen with ten phases. *Displays either one with higher risk.
o Total Ascent Time (TOTAL)······	•• Time required to ascend from present depth to surface at proper speed with decompression stop.
•Maximum Depth (MAX)••••••	 Maximum depth reached during the dive. *Maximum 99.9m
Current Water Temperature ·····	Displays current water temperature.
◦Current Time·····	•Displays current time with hour, minutes and seconds. (TIME 2 screen)
• Direction and Angle Value · · · · · · ·	Direction reading.



 Decompression Dive Screen (Under Decompression Stop)

Decompression dive basic screen of Dive Mode (Under decompression stop) displays the following information.

- · Elapsed dive time (Minutes)
- Decompression stop timer (Minutes)
- Decompression stop depth
- Current depth
- Tissue loading bar graph (TLBG)
- Oxygen accumulation (O2) or partial pressure of oxygen (PO2) bar graph

Display of the decompression timer switches to the current depth, and the current depth to decompression stop depth when you depress the P button.

Display goes back to the decompression dive basic screen (Under decompression stop) in 4 seconds automatically.

Current Water Temperature



 Depress A button to display maximum depth screen.

Maximum depth screen displays the following information.

- Current water temperature
- Total ascent time (TOTAL)
- Maximum depth

Display goes back to the decompression dive basic screen (Under decompression stop) in 4 seconds automatically.



 Depress M button to display direction reading screen.

Direction reading screen displays the following information.

- Current time
- Direction
- Angle value

Depress P button for remeasurement. Depress M button to return to the decompression dive basic screen (Under decompression stop).



Depress L button to display watch screen.

s Watch screen displays the following information.

- Date
- Seconds
- Hour
- Minutes

Watch screen is displayed for 1 minute. After 1 minute, it goes back to the decompression dive basic screen (Under decompression stop) automatically. For immediate return to the decompression dive basic screen (Under decompression stop), please depress L button.

Warning While Diving

Ascent Rate Warning

It monitors ascent rate and gives warning when the ascent rate exceeds the specified rate. The specified rate is 10m/minute.



- •When the ascent rate exceeds 10m/minute, warning of "SLO" displays in the main portion of the screen and alarm beeps for 3 seconds.
- •When the ascent rate becomes the appropriate one, the warning of "SLO" disappears, and the warning is canceled.
- •When the ascent rate warning is given twice in one dive, it is recorded on a dive log.

Decompression Stop Violation Warning

When you are in the depth within the range of -0.5<Decompression stop depth<+1.0m, it performs countdown. When the depth becomes -0.5m less than the decompression stop depth while under decompression stop, it gives warning.



- When current depth becomes less than the range of decompression stop depth, a warning letter of "↓DOWN" flows.
- -[LDOWN] 2. DECO mark and STOP mark flash, and alarm sounds for 6 seconds.
 - It cancels the warning automatically when you return to the depth within the range of the decompression stop depth, but continues warning when you do not return.
 - . If warning occurs even once, it will be recorded on dive log.



Please perform the decompression stop at the depth required. Do not perform the decompression stop at the depth less than the one required.

- •When you ascend (less than 1.5m depth) ignoring the decompression stop, alarm sounds every 1 minute for 10 minutes after ascent. After 10 minutes, the use of this product for diving becomes impossible until it passes for 48 hours since then.
- •During the basic Watch and Surface Mode, DECO mark, STOP mark and the current time flash and is in a condition to be locked.



High Oxygen Accumulation Alarm (High O2 Alarm)

The warning activates when the oxygen accumulation exceeds acceptable range.



1. Oxygen accumulation (O2) and partial pressure of oxygen (PO2) bar graph flash.

- 2. Alarm sounds for 6 seconds.
- 3. The warning continues until the oxygen accumulation (O2) returns to the normal range.
- If warning occurs even once, it will be recorded on dive log.

High Partial Pressure of Oxygen Alarm (High PO2 Alarm) The warning activates when the partial pressure of oxygen becomes 1.4 or more.



- Oxygen accumulation (O2) and partial pressure of oxygen (PO2) bar graph flash, and at the same time, the dot display shows the letter of "PO2".
- 2. Alarm sounds for 6 seconds.
- 3. The warning continues until the partial pressure of oxygen (PO2) returns to the normal range.
- If warning occurs even once, it will be recorded on dive log.

Violation Gauge Warning

Violation gauge warning activates when applied to the following conditions;

When the depth exceeds 99.9m.

When the elapsed dive time exceeds 599 minutes.

When decompression is needed at the depth of deeper than 33m while decompression diving. When decompression stop time or total ascent time exceeds 99 minutes, while decompression diving.



1. "E E E E" mark lights up in a main display portion.

2. Alarm sounds for 3 seconds.

•If warning occurs even once, it will be recorded on dive log.

•When the violation gauge warning occurs, it judges that dangerous diving is performed and it becomes impossible to use it in diving for 48 hours after ascent to surface.

•During the basic Watch and Surface Mode, it displays "E E E E" mark and the current time alternately and is in a condition to be locked.



Log Mode



Log can be used in watch mode and surface mode.

Both normal scuba dive log and free dive session log can be displayed in the log display, and each log display can be switched.

As for logs, logs of 30 dives including scuba dive log and free dive session (from free dive start to end as one session unit) are displayed from the latest one.

Since a simple diving profile can be checked, you can get to know the depth change according to the dive time elapsed. (Max. 200 minutes / 1 dive)

Also, in scuba dive log, as a history is displayed on the last of a log, you can check cumulative data.

Enter the Log Mode

Depress L button once at the time of watch mode or surface mode to log mode. It switches to log mode in about 1 second after the screen displays "LOG". It displays the latest scuba diving log once it switches to log mode.

Depress P button to display the 2nd latest log data. Depress P button furthermore to display the log data older than that.

Depress L button to display history screen.

Depress L button furthermore to display the oldest log data recorded.

When you depress and hold A button (for more than 2 seconds), it displays the latest free dive session log after flashing "TIME" and "Hold".

When you depress and hold M button (for more than 2 seconds), it switches to watch mode or surface mode after flashing "TIME" and "Hold".

When no operation is performed, it returns to watch mode or surface mode after 2 minutes.

Check a Log	
	[Note]
A log is recorded whe	n you dive into the depth deeper than 1.5m for more than 3 minutes.
Log consists of five sci oLOG	eens.
Log No Dive date Dive No Entry time oL-1	Number is given to each dive in order. /ear, month and date of dive. Number showing the order of diving on the day. ime dive started.
Exit time Dive time Temperature at maximum depth oL-2	Time dive ended. Time from dive started to dive ended. Nater temperature at maximum depth of dive.
Maximum depth······ Average depth······ Warning occurred····· ○L-3	Maximum depth reached during the dive. Average depth during the dive. Warning occurred during the dive.
Fraction of oxygen use •Common items	d··Fraction of oxygen of tank used during the dive.
Tissue loading · · · · · ·	·····Displays the quantity of nitrogen accumulated during the dive with ten phases.
Oxygen accumulation Partial pressure of oxy	or Displays the quantity of oxygen accumulated, or partial gen pressure of oxygen during the dive with ten phases.
• Dive profile Graph start time or • • • Maximum depth Graph finish time • • • • •	Displays graph start time and maximum depth of the dive alternately. Graph finish time of the dive.

Button Operation



LOG

When you enter the Log Mode, the newest diving log is displayed.

Log screen displays the following information.

- Log No.
- Dive date
- Dive No.
- Entry time

Depress A button to display "L-1" screen.



L-1 screen displays the following information.

Exit time

L-1

- Dive time
- Temperature at maximum depth

Depress A button to display "L-2" screen.



L-2

L-2 screen displays the following information.

- · Maximum depth
- Average depth
- Warning occurred

Depress A button to display "L-3" screen.

•When it displays the depth in the Log Mode, if the depth is less than 50m, it becomes 0.2m unit, and is deeper than 50m, it becomes 0.4m unit.

Warning to be recorded in log. There are 6 warning as follows:

There are 6 warning as follows;

 Ascent Rate Warning 	↑SLÓW	When the ascent rate exceeds 10m/minute, and the
 Decompression Dive Warning Decompression Stop Violation Warning 	DECO Mark Lighting ↓DOWN	When the no-decompression time is exceeded, and decompression stop becomes necessary. When the depth becomes less than the decompression stop depth required while under decompression stop.
 High Partial Pressure of Oxygen Alarm (High PO2 Alarm) 	! ! PO2	When the partial pressure of oxygen becomes 1.4 or more.
oʻligin Oxygen Accumulation !! O2 Alarm (High O2 Alarm) oʻViolation Gauge Warning LIMIT		When the oxygen accumulation exceeds dangerous level. When the depth exceeds 99.9m. When the elapsed dive time exceeds 599 minutes. When decompression is needed at the depth of deeper than 33m while decompression diving.

•No warning is displayed for the log dived in "Gauge Mode".



∎ L-3

L-3 screen displays the following information.

• Fraction of oxygen used

Depress A button to display "PROF" screen.

[Note] •When diving with multiple gas settings, the fraction of oxygen that was changed to last is displayed.

•Fraction of oxygen is not displayed for the log dived in "Gauge Mode".

[GAUGE] is displayed in the dot display area.



Dive Profile (PROF)

Dive profile (PROF) screen displays the following information.

- · Elapsed Dive time
- Graph
- Depth at the time of eiapsed dive time

Depress A button to display "LOG" screen.

Depth at the time of elapsed dive time

When you change it to the screen of Dive Profile, a graph starts to scroll automatically. Scroll stops when you depress P or L button.

•Whenever you depress the P button, data is updated at intervals of 1 minute, and the elapsed dive time and the depth at the time of elapsed dive time progress.

•Whenever you depress the L button, data is updated at intervals of 1 minute, and the elapsed dive time and the depth at the time of elapsed dive time return.

Continue to depress P or L button for fast forward

•The time which can be displayed on a graph is 20 minutes.

When you depress P or L button on a detailed screen, it changes to an old log, a new log, a history, etc.

When you depress and hold M button, it changes from every screen in "LOG" mode to Watch Mode or Surface Mode after "TIME" "Hold" display.



Sampling Rate Setting

On the sampling rate setting screen, you can set the dive profile save rate for scuba diving.

It is possible to set 10 / 20 / 30 / 60 seconds. (Default is 20 seconds)

If you set a shorter time, you can save details, but the amount of data will be large.

The dive profile data can be saved for a maximum of about 80 hours with the interval of 20 seconds. If you set the interval to 10 seconds, it can be saved about 40 hours.

o Enter the Sampling Rate Setting Screen

 When [L-1], [L-2], and [L-3] are displayed in the scuba dive log, if you depress and hold the A button (for 2 seconds or longer), [TIME] and [Hold] will flash and then the sampling rate setting screen is displayed.

2) Depress P button (UP) or L button (DOWN) to set the save rate time. •Every 10, 20, 30, 60 seconds.

3) Depress A button to complete the setting.

[Note]

•Although 30 dives of log data will be saved, the dive profile will not be displayed if the dive profile data exceeds the save time.

(Example) When it is 30 dives with the sampling rate setting of 10 seconds and the maximum of about 40 hours, if it is for 2 hours data per dive, 30 dives of log data will be saved, but about 10 dives of dive profile will not be displayed.



O2 Profile Save Settings

On the O2 profile save setting screen, you can set whether to save the O2 bar graph information when displaying scuba diving dive profile data.

It can be set to ON or OFF. (Default: OFF)

When OFF (default), O2 bar graph is not displayed in the dive profile Adata display.

- Enter the O2 Profile Save Settings Screen
- 1) Depress M button on the sampling rate setting screen.
- 2) Depress P button to set "ON" or "OFF".
- 3) Depress A button to complete the setting.

[Note]

•The O2 profile save setting is "OFF" by default.

•When the O2 profile save setting is set to "ON", the O2 bar graph information will be saved alternating with the N2 information at each sampling rate. (N2/N2/N2/N2/N2/O2/N2/O2) Therefore, in the N2 bar graph display, the N2 information replaced with the O2 bar information is displayed as temporary data. Similarly, when displaying the O2 bar graph, the O2 information in the portion where N2 was saved is displayed as temporary data.

Check a History



- 1. Enter the Log Mode.
 - Depress L button once at the time of Watch Mode or Surface Mode.
 - "LOG" is displayed on a screen and it switches to Log Mode in about 1 second.
 - The newest log is displayed when it switches to Log Mode.
- 2. Depress L button again.
 - "HIST" is displayed on a screen and it displays history in about 1 second.

History (HIST) screen displays the following information.

- Total number of dive.
- Total dive time.
- Maximum depth

Number of Dives Settings

You can add the number of dives, that is the number of dives experienced by owner before using SOLIS, to the history.

The number of dives set here will be linked with the log No., and the latest log No. will be determined based on the set number of dives.

[Note] •The total number of dives can be displayed by adding the number of dives in the past.

o The Total Number of Dives Settings

1) On the history screen, depress and hold the three buttons of A, B and L at the same time. Release the button when the "Number of Dives" flashes.

2) Depress the P button (UP) or L button (DOWN) to set the number.

•You can fast forward by holding down the P or L button.

•You can set from 0 to 9999.

3) Depress A button to complete the setting. It returns to the history screen.

Free Dive Session Log

In the free dive session log, one session from the start to the end of free diving is recorded as a free dive session log.

A total of 30 scuba dive logs and free dive session logs will be saved.



■Depress and hold the A button on the scuba dive log screen to display the free dive session log screen.

The following information is displayed on the free dive session log display screen.

Year / Date

Session No.

Session Start Time (Hours : Minutes)

Depress L button to move to the "Total Number of Free Dive Session" screen.

Depress P button to switch to the previous session data.

Depress A button to move to the free diving L-1 screen.



∎L-1

The following information is displayed on the L-1 screen.

- Average Depth
- Longest Dive Time (Minutes : Seconds)
- Maximum Depth
- •Total Number of Dives in the Session
- •Total Dive Time in the Session

(Hours : Minutes)

Depress A button to move to the free dive profile (PROF) screen.



■Free Dive Profile

The following information is displayed on the free dive profile screen.

- Water Temperature
- Dive Time (Minutes : Seconds)
- Maximum Depth
- •Dive Start Time (Hours : Minutes)
- •No. in the Session

Information is automatically switched from the oldest information to the latest information of each free dive in the free dive session. If you depress the L or P button on the way, the automatic display will stop.

Depress L button to switch to new information.

Depress P button to switch to old information.

Depress A button to move to the "Free Dive Session Information Display" screen.



■Free Dive History

Depress L button on the free dive session log screen to display the free dive history screen.

The following information is displayed on the free dive history screen.

- Average Depth
- Longest Dive Time (Minutes : Seconds)
- Maximum Depth
- Total Number of Dives
- Total Dive Time (Hours : Minutes)

Depress L button to move to the oldest free dive session log screen.

Depress P button to move to the latest free dive session screen.

Depress A button to move to the free diving basic screen.

[Note] •History in log mode shows a record of all sessions of free diving. It is a record of sessions dedicated to free diving, which is completely different from the history that can be checked in normal diving or free dive mode.





PLAN MODE (PLAN)

Plan Mode

In Plan Mode, no-decompression limit corresponding to the safety factor in compressed air and Nitrox (EANx) diving can be checked.

Setup of fraction of oxygen (FO2) and the safety factor is performed in Plan Mode.



Check a Plan

- 1. Depress P button once at the time of Watch Mode or Surface Mode.
 - "PLAN" is displayed on a screen and it switches to Plan Mode in about 1 second.
- 2. Depress P button (UP) or L button (DOWN) to set scheduled dive depth "9~48m".
 - Scheduled dive depth is displayed at intervals of 3m, and the no-decompression limit calculated with the depth is displayed.
 - · Continue to depress P or L button for fast forward

[Note] •No-decompression limit is calculated based on fraction of oxygen (FO2) and safety factor, etc. set at that time. [Note] • The no-decompression limit is calculated based on the fraction of oxygen set at that time, gas 1 when multiple gases are set, and the safety factor.

Additional Time

You can check the no-decompression limit from the present time up to maximum 6 hours later. However, the calculation is based on the assumption that the current atmospheric pressure will be maintained.

1) Depress A button in plan mode. The additional time flashes.

- 2) Depress P button (UP) or L button (DOWN) to select the additional time (0:00 to 6:00).
- •The no-decompression limit calculated by the additional time and the water depth is displayed.
- •Additional time can be set at 5-minute intervals.
- •You can fast forward by holding down the P button or L button.
Set the Fraction of Oxygen



In fraction of oxygen setting, you can register up to 4 tanks with different fraction of oxygen. When setting multiple fraction of oxygen, it is possible to set up to 100% in the order of GAS1

If the fraction of oxygen setting reaches 100%, further settings will not be possible even if the number of registrations remains.

After setting the fraction of oxygen, the % of next fraction of oxygen cannot be set lower than the previous fraction of oxygen.

When GAS1 is 22% or more, or when multiple GAS are set, the [Nx] mark lights up.

The higher the fraction of oxygen is set, the shallower the maximum operating depth becomes.



The following information is displayed on the fraction of oxygen setting screen.

- •Gas No. (GAS1 to GAS4)
- •Fraction of Oxygen (21% to 100%)

1) Depress and hold A button (about 2 seconds) in plan mode.

- •When [GAS1] [21-100%] is displayed after [SET][Hold] flashes, release the button.
- 2) Depress P button (UP) or L button (DOWN) to set the fraction of oxygen (21% to 100%).

•22% to 100% will be Nitrox (EANx).

•You can fast forward by holding down the P button (UP) or L button (DOWN).

Pause at 21%, 32% and 50%.

3) Depress A button.

•The setting of GAS1 is completed.

4) Set the GAS2. [GAS2] [OFF] are displayed.

•When the fraction of oxygen setting is not performed, depress A button to move to the safety factor setting.

•To set the fraction of oxygen, depress the M button to switch from [OFF] to the display of [(Fraction of oxygen % set in the preset gas No. + 1%) to 100%].

5) Depress P button (UP) or L button (DOWN) to set the fraction of oxygen [(Fraction of oxygen % set in the preset gas No. + 1%) to 100%].

•You can fast forward by holding down the P button (UP) or L button (DOWN).

As the setting is 22% to 100%, [Nx] mark lights up.

6) Depress A button.

•The GAS2 setting is completed.

Set GAS3 and GAS4 in the same way.

When the fraction of oxygen display is set to [OFF], depress A button to move to the safety factor setting even if there are remaining GAS Nos.

After setting GAS4, depress A button to move to the safety factor setting.

In Nitrox (EANx) diving, the fraction of oxygen must be set for each dive.

• If it is not set for each dive, the Nx mark will flash and a buzzer will warn you immediately after the dive.

[Note]

For just air diving without Nitrox, set GAS1 to 21% and other GAS settings to OFF.
 For normal Nitrox diving without underwater gas change, set the fraction of oxygen in GAS1.

If you perform repetitive diving without resetting the fraction of oxygen after Nitrox (EANx) diving, for safety, it will be calculated with setting of 50% oxygen and 79% nitrogen.

After setting, it automatically returns to the setting of air (fraction of oxygen 21%) in 24 hours and the [Nx] mark disappears.

Safety Factor Setting

Safety factor can be selected from 3 steps of levels. Default value is SF- 0. The safety factor becomes high in order of SF- 0, SF-1 and SF-2.



- 1. Enter the Plan Mode.
 - Depress P button once at the time of Watch Mode or Surface Mode.
 - PLAN" is displayed on a screen and it switches to Plan Mode in about 1 second.
- 2. Depress and hold A button (for about 2 seconds).
 - Release the button when "SF-0-2" and "21-100%" are displayed after "SET" "Hold" flashes
- 3. Every time you depress the M button, it is set up as follows.
 - "SF-0" (Default value) → "SF-1" → "SF-2"
- 4. Depress A button to return to Plan Mode.
 - Setup is completed. (As to the details of safety factor, please refer to the page 87.)
- Precautions at safety factor setting.

Once you set up the safety factor, it becomes effective until you change it.

The safety factor also influences the calculation under diving and after diving.

Check of a setting situation and setup/change of the safety factor in Dive Mode cannot be performed.

Set the Depth Interval Alarm

A beep sounds when the depth exceeds the multiple depth of a set depth. It can be used in dive mode, free ådiving mode, and gauge mode.



The following information is displayed on the depth interval setting screen.

Set Depth (OFF, 3 to 99m)

1) To set the gauge mode (ON), when display the plan screen by depressing the P button in the watch mode, [Gauge ON] is displayed. Depress and hold the A button (about 2 seconds).

2) Depress M button to switch the display from [OFF] to [3 to 99].

Depress the P button (UP) or L button (DOWN) to set the set depth [3 to 99].
 It can be set to OFF, 3, 4, 5 to 99m in units of 1m.

Depress A button.
 The setting is completed.

[Note] •Once set, it will be retained. It is not necessary to set it for each dive. •It can also be used as the maximum depth alarm by increasing the set depth.

Conditions that activate audible alarm for the depth interval alarm

. It works when the depth exceeds 3m.

A beep sounds when the depth exceeds the multiple depth of a set depth.

 When diving near the set depth and its multiples, there is a 3m buffer zone to avoid frequent audible alarm. After ascending to the outside of the buffer area of 3m and descend again, the audible alarm sounds again.



•When the set depth is set to 6m, it sounds when the depth exceeds multiples of 6, such as 6, 12, 18, 24, 30m.

At 12m in [A], once ascended to 11m and exceeded 12m again. There is no sound because it does not exceed 3m of the buffer area.

At 18m in [B], once ascends to 14m and exceeds the buffer area of 3m, so it will sound again.

[Note]

It does not save the log.

The measuring interval of the depth gauge is 1 second in the dive mode and gauge mode, and 0.5 seconds in the free dive mode. If you descend to multiple set warning points during that time, just one audible alarm will sound and the number of times of audible alarm exceeding the set warning points will not sound.

Set the Gauge Mode

This mode does not perform nitrogen calculation, no-decompression limit calculation, or various warnings for normal diving. Not used in normal diving.

The depth interval alarm and ascent rate warning will work.

(Ascent rate violation is not logged.)



1) You can switch to the gauge mode from any screen from fraction of oxygen setting to depth interval alarm setting by depressing A button (about 2 seconds).

2) Depress M button to set [OFF] or [ON].

3) Depress A button.

The gauge mode setting is completed.

Caution

• If you dive after setting the gauge mode to ON, the gauge mode will be locked. For the next 48 hours, the gauge mode setting screen cannot be opened, and it cannot be switched off or switched to the normal dive mode.

•The gauge mode will automatically turn off 48 hours after ON setting or 48 hours after diving (3 minutes or more at a depth of 1.5 m or deeper) with ON setting.

•It is not possible to move to the gauge mode setting screen in the case of the tissue loading status or the lock status.

Check the Gauge Mode

You can check if the gauge mode is set to [ON].



Depress P button once in the watch mode or the surface mode.

•[PLAN] is displayed on the screen, and after about 1 second, the screen switches to the gauge mode check screen.

- •Gauge mode [ON] is displayed.
- •If the gauge mode is not set to [ON], move to the plan screen.

To move from the gauge mode check screen to the gauge mode setting screen, depress and hold the A button to switch to [Depth Interval Alarm Setting], and then depress and hold the A button to switch to the [Gauge Mode Setting Screen].



ALTITUDE DIVING AND FRESH WATER DIVING

Warning

 When performing altitude diving, no-decompression limit (NDL) becomes shorter than the one at sea level of 0m.

Please reconfirm NDL in the low state of barometric pressure which passed 15 minutes or more after you ascend to the high place.

Otherwise, you may get decompression sickness.

As this product measures the barometric pressure of the place which the diver moved, and calculates the release of residual nitrogen and oxygen by non-step automatically, it also can be used at high place without any switch operation or a special setup.

Moreover, since depth displayed is based on sea water, it displays somewhat shallower depth in fresh water of the light specific gravity. This also shows that the depth displayed is sea water standard, and at the same time, the water pressure which the diver has received is equal to the pressure at the depth in sea water

Since it calculates on this pressure standard, there is no adverse effect on decompression calculations in fresh water.



In free dive mode, the current depth and elapsed dive time are displayed. It does not calculate tissue loading and oxygen accumulation.



In the watch mode, depress M button 6 times to open the free diving mode screen.

However, if there is remaining desaturation time after a normal diving, if it is locked for 48 hours, if it is not fully charged, or if it is in gauge mode lock, it will switch to world time mode instead of free diving mode.

To exit freediving mode, depress M button to enter world time mode. (Same for each screen in freediving mode)

If the diving depth keeps shallower than 1 m (SURF) for 60 minutes, it automatically returns to watch mode. Also, when the depth is deeper than 1 m, depressing the M button does not close the screen and the free dive mode continues. However, if SURF continues for 99 minutes , it will return to the watch mode.

[Note] If you descend deeper than 1m, it will be judged that diving has started and the elapsed dive time will start counting.

When diving in free dive mode, the following information is displayed.

oStopwatch ----- Time Measuring

Elapsed Dive Time (Minutes : Seconds) DIVE T **CO3** FREE Current Depth Every 1 Second Maximum Depth of the Dive. DIVE.T **BAB** FREE m

Free Dive Mode Basic Screen

The basic screen of free dive mode displays the following information.

- •Elapsed Dive Time (Minutes : Seconds)
- Current Depth
- Maximum Depth

The display of the current depth and the maximum depth is switched every 1 second.

It shows the elapsed dive time at 1m or deeper. When it becomes shallower than 1 m, it switches to the free dive surface screen and displays the surface interval time.

[Note] •Unlike the normal diving mode, the nitrogen calculation etc. are not performed, so the tissue loading bar graph and O2 bar graph are not displayed.

In addition, it does not give you decompression dive warning or ascent rate warning.



■Depress A button to display the current information display screen.

The following information is displayed on the current information display screen.

- Current Water Temperature
- •Number of Dives Since Entering the Free Dive Mode.
- Current Time



Depress A button twice to display the previous information display screen.

The following information is displayed on the previous information display screen.

- •Water Temperature at the Previous Maximum Depth.
- Previous Dive Time
- Previous Maximum Depth.

Depress A button to move to the digital compass reading screen.



Depress A button 3 times to display digital compass reading screen.

Digital compass reading screen displays the following information.

- Current Time
- Direction Indicator
- Angle Value

Depress P button for remeasurement. Depress A button once to move to the stopwatch screen.

Please refer to page 98 for digital compass reading.

Depress A button 4 times to display the stopwatch screen.

Stopwatch screen displays the following information.

•Current Time •Measuring Time

Depress A button once to move to the free dive mode basic screen.

Please refer to page 102 for stopwatch.







Depress L button to display the free dive log screen.

Free dive log screen displays the following information.

- •Date / Entry Time
- •Dive Time (Minutes : Seconds)
- Maximum Depth

Depress L button to move to the latest log data screen.

Depress P button to switch to the oldest log data screen.

Depress A button to move to the free diving basic screen.

[Note] If you do not dive in free dive mode, the free dive log screen will not be displayed.



Depress L button twice to display the history screen.

The following information is displayed on the history screen.

- Average Depth
- Longest Dive Time (Minutes : Seconds)
- Maximum Depth
- •Total Number of Free Dives in the Free Dive Session
- Total Dive Time (Hours : Minutes)

Depress L button to move to the latest log screen.

Depress P button to move to the oldest log screen.

Depress A button to move to the Free Diving Basic screen.

[Note]

 History in free dive mode shows all records in the free diving session. It is the record dedicated to free diving session, which is completely different from the history of normal diving or free dive log.



In gauge mode, the current depth and elapsed dive time are displayed. It does not calculate the tissue loading and oxygen accumulation.



The product automatically switches to the gauge mode within 20 seconds after it senses the pressure equivalent to a depth of 1.5 m after entering the water. (If you want to quickly switch to gauge mode when entering the water, depress the B and M buttons at the same time immediately before diving to switch manually. It holds the gauge mode for 1 minute.) See page 79 for switching to gauge mode.

Caution

 If you dive after setting the gauge mode to ON, the gauge mode will be locked. For the next 48 hours, the gauge mode setting screen cannot be opened, and it cannot be switched off or switched to the normal dive mode.

•The gauge mode will automatically turn off 48 hours after ON setting or 48 hours after diving (for 3 minutes or more at a depth of 1.5 m or deeper) with ON setting.

[Note]

• If you dive deeper than 1.5m, it is judged that diving has started, and it starts counting the dive time.

The following information is displayed when diving in gauge mode.

 Current Depth (DEPTH) Current depth of water. It displays by 0.1m unit starting from 1.5m. * Maximum 99.9m.
 Elapsed Dive Time Time elapsed since the start of diving. * Maximum 599 minutes.
 Maximum Depth (MAX) Maximum depth reached during the dive. * Maximum 99.9m
○Current Water Temperature - Displays current water temperature.
oCurrent Time Displays current time with hour, minutes and seconds.
 Direction and Angle Value - Digital compass reading.

oStopwatch ----- Time Measuring



■Gauge Mode Basic Screen

The following information is displayed on the gauge mode basic screen.

- Elapsed dive time (Minutes)
- Current Depth



 Depress M button to display digital compass reading screen.

Digital compass reading screen displays the following information.

- Current Time
- Direction Indicator
- Angle Value

Depress P button for remeasurement. Depress M button once to move to the stopwatch screen.

Please refer to page 98 as to the digital compass reading.

Depress M button twice to display stopwatch screen.

Stopwatch screen displays the following information.

- •Current time
- Measuring Time

Depress M button to switch to the gauge mode basic screen.

Please refer to page 102 as to the stopwatch.





Depress A button to display maximum depth screen.

Maximum depth screen displays the following information.

- Current Water Temperature
- No-Decompression Limit (Minutes)
- Maximum Depth

Display goes back to the gauge mode basic screen in 4 seconds automatically.



Depress L button to display watch screen.

Watch screen displays the following information.

- Date
- Seconds
- Hour
- Minutes

Watch screen is displayed for 1 minute.

After 1 minute, it goes back to the basic screen automatically.

Depress L button for immediate return to the gauge mode basic screen.

BLE MODE (BLUETOOTH CONNECTION SETTINGS)

BLE Mode

The log data can be saved via Bluetooth by using the mobile phone application separately. (Please refer to the application separately for the connection method.) This section describes the operation for SOLIS only.



BLE Mode Basic Screen

BLE mode basic screen displays the following information.

- Current time
- Connection Setting Status (OFF⇔ON)

[Note]

•If mobile phone is not charged enough, you will not be able to connect. Please connect after charging.

Bluetooth Connection

1) Depress M button once in watch mode or surface mode to switch to BLE mode.

•BLE mode is displayed about 1 second after [BLE] is displayed.)

2) Depress P button. The lower display switches from [OFF] to [ON].

The connection is ready.

3) Please connect according to the connection instructions of the application.

BLE MODE (BLUETOOTH CONNECTION SETTINGS)



During Advertising

If there is no connection within about 30 seconds during advertising, [BLE OFF] is displayed and it returns to the BLE mode basic screen.

Flashes alternately up and down



During Connection

The [CONN] display flashes during connection.

After connection, if there is no data transmission/ reception in the connected state, it will return to the watch screen after about 10 minutes.

BLE MODE (BLUETOOTH CONNECTION SETTINGS)



Advertising Interval Setting

The advertising interval setting is 500 seconds as default, and can be also selected from 500 / 470 / 440 / 418 seconds.

In the case that used communication device cannot catch SOLIS, try to change intervals. However, shortening the interval increases power consumption.

- 1) Hold down A button for 2 seconds or more on the BLE mode basic screen.
- •When it displays [INT] after [SET] and [Hold] flash, release the button.
- 2) Depress P button (UP) or L button (DOWN) to set the advertising interval.
- •You can fast forward by holding down the P or L button.
- •Select from 500 / 470 / 440 / 418 seconds.
- 3) Depress A button.
- The setting is completed.
- Returns to the BLE mode basic screen.

It measures direction with the bearing sensor built in this product.

Direction abbreviations (16 directions) and angle value are displayed.

 In order to measure correctly, please refer to "Calibrate Bearing Sensor" and "Precautions at Digital Compass Measurement".

•It can be used in Watch Mode, Surface Mode and Dive Mode.



How to get Angle Value

<Meanings of the Direction Abbreviations>

Direction	Ν	NNE	ΝE	ENE	Е	ESE	SE	SSE
Meaning	North	North-northeast	Northeast	East-northeast	East	East-southeast	Southeast	South-southeast
Direction	S	SSW	SW	WSW	W	WNW	NW	NNW
Meaning	South	South-southwest	Southwest	West-southwest	West	West-northwest	Northwest	North-northwest

Digital Compass Measurement

- 1. When you depress M button once at the time of Watch Mode or Surface Mode, it switches to Digital Compass Mode.
- "COMP" is displayed and it switches to Digital Compass Mode in about 1 second.
- 2. The 12 o'clock position of this product is "Measuring Direction".
- 3. Depress P button while placing this product on a flat surface.
 - When it starts digital compass measurement, it shows an abbreviation and an angle value in about 1 second.

Even after displaying the first measuring result, it continues measurement and display in every second for about 60 seconds.

After measurement finishes, the display of the direction abbreviation and angle value changes to "---".

Calibrate a Bearing Sensor

In order to raise the accuracy of measurement, please calibrate the bearing sensor before measurement.

How to calibrate the bearing sensor.

"Bidirectional Calibration": Please use it when the angle value has shifted as compared with an accurate compass, and at the preparation before diving.

- Precautions about bidirectional calibration
 - Do not move the product and keep it placing on a flat surface while calibration is in progress.
 - If bidirectional calibration is performed to the every digital compass measurement, a more accurate measuring result can be obtained.
 - Please perform bidirectional calibration whenever environment to use changes.
 - At the place with strong magnetism such as near home electronics, OA equipment and cellular phone, it may be unable to calibrate correctly.
 - Please make sure to select two opposing directions that are 180 degrees opposite each other.

- Bidirectional Calibration
- 1. Continue to depress A button for more than 2 seconds in Digital Compass Mode.
- Release the button if "CALIBRATION" "-1-" is displayed after "SET" "Hold" flashes
 "CALIBRATION" is displayed as flowing.

2. epress L button.

- It starts to calibrate the first direction.
- "---" is shown on the display while calibration is being performed.
- When calibration is successful, display shows "Turn 180°", then "CALIBRATION" "-2-" is displayed.
- When "ERR" "-1-" is displayed, please repeat the same procedure by depressing L button again.
- 3. Rotate the product 180 degrees.
- 4. Depress L button.
 - It starts to calibrate the second direction.
 - "---" is shown on the display while calibration is being performed.
 - When calibration is successful, display shows "OK", then it switches to digital compass measurement.
 - Calibration is completed.
 - When "ERR" "-2-" is displayed, please repeat the same procedure starting from 2.

• If nothing is operated for 2 to 3 minutes, the display of the direction abbreviation and angle value switches to "----", finishes calibration screen automatically in 2 to 3 minutes after, and returns to Watch Mode, Surface Mode or Dive Mode.

Precautions at Digital Compass Measurement

Magnetic north and True north.

There are two kinds of geography terms showing north, magnetic north and true north

•Magnetic north : north which compass (bearing magnetic needle) indicates.

•True north : the direction of the North Pole point.

As shown in the right figure, the magnetic north and the true north are not same.

- The "north" of the map generally marketed is true north.
- This product indicates magnetic north.
- Place to use.

If you measure a direction near what has strong influence to geomagnetism, an error arise at a measurement value.

Please use it keeping away from the following items.

- •Permanent magnet (Wrist compass, Magnetic necklace etc.)
- •Metal (Metal door, Metal locker etc.) •High-voltage line
- •Overhead wires •Electrical home appliances

(Television, Personal computer, Washing machine and Refrigerator etc.)

Accurate measurement cannot be performed in vehicles, such as a train, a ship and an airplane. Accurate measurement cannot be performed in a room, especially in the building of reinforced concrete construction.

Place to keep.

When this product becomes magnetized, the accuracy of digital compass measurement may be affected. Please do not keep it near the items which become magnetized strongly such as permanent magnet (wrist compass, magnetic necklace etc.), electrical home appliances (TV, PC, washing machine and refrigerator etc.)

When the measured direction has an error, there is a possibility that the product became magnetized. Please perform the bidirectional calibration.

- [Note]
- •The auto light switch is disabled during the 60 seconds that digital compass measurement is being performed.
- When an alarm sounds or a light is turned on by having depressed B button during the digital compass measurement, it stops the measurement temporarily and resumes the measurement after the alarm stops and the light turned off.



STOPWATCH (STW)

The stopwatch measures elapsed time up to 999 hours, 59 minutes, 59.9 seconds by 1/10 second unit.

When a measuring range is exceeded, it returns to 0 and continues measurement. Stopwatch can be used at the time of Watch Mode, Surface Mode and Dive Mode



Enter the Stopwatch Mode

When you depress M button twice at the time of Watch Mode or Surface Mode or Dive Mode, it switches to the Stopwatch Mode.

"STW" is displayed and it switches to the Stopwatch Mode in about 1 second.

The Stopwatch display at the time of Dive Mode will return to Dive Mode in several minutes.

STOPWATCH (STW)

Time Measurement

To perform an elapsed time operation



[Note] •Once you started, stopwatch continues until you depress L button for reset even if you switch to another mode or it reaches the stopwatch limit. •When you switch to another mode while measuring a split time, it clears the split time and returns to elapsed time measurement.

TIMER (TMR)

You can set up a timer from 1 minute to 24 hours.

When it reaches the time you selected, time up alert sounds for 10 seconds.

Timer can be used at the time of Watch Mode and Surface Mode.



Select a Timer

When you depress M button three times at the time of Watch Mode or Surface Mode, it switches to the Timer Mode.

"TMR" is displayed and it switches to the Timer Mode in about 1 second.

TIMER (TMR)

Setting a Timer

- 1. Continue to depress A button for more than 2 seconds.
- Release the button if "Hour" display of Timer flashes after "SET" "Hold" flashes,
- 2. Depress M button to select "Hour" or "Minutes".
 - The one you selected flashes.
- 3. Depress P button (UP) or L button (DOWN) to set up "Hour" or "Minutes".
 - Continue to depress P (UP) or L (DOWN) button for fast forward.
 - When you set up a timer for 24 hours, adjust the display of timer to "0H00'00".
- 4. Depress A button.
 - · Setting is completed.
 - f nothing is operated for 2 to 3 minutes, it finishes the setup screen automatically.



ALARM / HOURLY TIME SIGNAL (ALM)

Four usual alarms and one snooze alarm can be set up.

In the case of usual alarm, when the time reaches the time preset, alarm sounds for about 10 seconds.

In the case of snooze alarm, when the time reaches the time preset, alarm sounds for about 10 seconds, and repeats it 7 times in every 5 minutes.

You can also turn on an hourly time signal every hour on the hour (00 minutes).



Using Alarm / Hourly Time Signal

When you depress M button four times at the time of Watch Mode or Surface Mode, it switches to the Alarm Mode.

"ALM" is displayed and it shows alarm number such as "AL-1~AL-4", "SNZ" and "SIG" in about 1 second.

ALARM / HOURLY TIME SIGNAL (ALM)

Setting an Alarm Time

1. Depress P button (UP) or L button (DOWN) to find alarm number to set up while in Alarm Mode.



- 2. Continue to depress A button for more than 2 seconds.
 - Release the button if "Hour" display of Alarm flashes after "SET" "Hold" flashes,
- 3. Depress M button to select "Hour" or "Minutes".
 - The one you selected flashes.
- 4. Depress P button (UP) or L button (DOWN) to set up "Hour" or "Minutes".
 - Continue to depress P (UP) or L (DOWN) button for fast forward.
 - When using the 12-hour format, it displays P indicator in p.m.
- 5. Depress A button.
 - · Setup is completed.
 - Alarm number set up the time becomes "ON".
 - If nothing is operated for 2 to 3 minutes, it finishes the setup screen automatically.
 - In this case too, the alarm number you tried to set up the time becomes "ON".
 - There is no time setting in hourly time signal.

ALARM / HOURLY TIME SIGNAL (ALM)

Turn Alarm On and Off

- 1. Depress P button (UP) or L button (DOWN) to find alarm number to set up while in Alarm Mode.
- 2. Depress A button to turn alarm or time signal on and off.
 - When any alarm (one or multiple among five) is turned on, "ALM" indicator lights up.
 - The "ALM" indicator does not light up even when snooze alarm or hourly time signal is on.

[Note]

- •Depress any button to stop the alarm.
- •Even if it is switched to other displays such as dive mode, alarm sounds.
- In the case of snooze alarm, when the time reaches the preset alarm time, alarm sounds for about 10 seconds, and repeats it 7 times in every 5 minutes.
- If the following operations are carried out when snooze alarm is on, a snooze alarm function will be interrupted.

When you turn the snooze alarm off.

When you start to set up a snooze alarm time.

When you start to perform various settings in Watch Mode.

When you change a setup of summer time in world time while the home city and the world time city are same.
WORLD TIME (WT)

You can view the current time in one of 48 cities (31 time zones) around the world. The city that is selected in the World Time Mode is called the "World Time City". Please refer to City Code Table as to the City Code. (Page 134)



Enter the World Time Mode

When you depress M button five times at the time of Watch Mode or Surface Mode, it switches to the World Time Mode.

"WT" is displayed and it shows once currently selected City Code and its city name as flowing in about 1 second. After that it displays just City Code.

WORLD TIME (WT)

View the Time in Another Time Zone

Depress P button (UP) or L button (DOWN) to select a City Code while in World Time Mode.

- . It displays current time of the selected city.
- Continue to depress P button or L button for fast forward.

Summer Time (DST) Setting

1. Depress P button (UP) or L button (DOWN) to select a City Code while in World Time Mode.

- 2. Continue to depress A button for more than 2 seconds.
 - Setting switches after "DST" "Hold" "ON" or "DST" "Hold" "OFF" flashes.
 - When "DST" Hold" "ON" flashes, summer time (DST) is set up. It displays summer time.
 - When "DST" Hold" "OFF" flashes, summer time (DST) is released. It displays standard time.
 - It displays "DST" when it is in summer time (DST) setting.

[Note]

- The Summer Time, also called DST (Daylight Saving Time), is the system adjusting 1 hour faster from the normal time (Standard Time). An enforcement period and the enforcement area of the Summer Time vary according to a country. In addition, there is a country and the area that do not adopt the Summer Time system.
- •You cannot switch between standard time/summer time (DST) while "UTC" is selected as the World Time City.
- The standard time/summer time (DST) setting affects only the currently selected city (time zone).

SOLAR POWER GENERATION CAPACITY DISPLAY

In this mode, you can check the amount of power generation at the current light level. You can also see the estimated charging time based on the amount of power generated. However, since it is not possible to capture detailed fluctuations in the battery voltage level, please use the estimated time as just a guide.

Display Generation Capacity Expected charging time Current power generation



n the watch mode or the surface mode, depress M button 7 or 8 times to enter the solar power generation capacity display mode.

•[SLR] is displayed, and after about 1 second, the current estimated charging time and power generation amount are displayed.

•Depress P button to start measurement again.

•The screen continues to display for 1 minute.

Solar Power Charging Amount Display Estimated Charging Time : 0 to 999 Hours Current Generation Amount : 0 to 1000 Indicator : The flashing speed changes according to the current generation amount. No flashing display when power generation is 0.

[Note]

 The estimated charging time is a guide, so even if you continuously charge under the same conditions, charging may not be completed within the estimated time. Also, even if you continue charging under the same conditions, the estimated time does not always count down.

By selecting the city and point, you can check the ebb and flow, lunar age, and sunrise / sunset in the area.

•You can check the ebb and flow of the tide, lunar age and sunrise / sunset, but it is a rough guide. Please do not use it for ocean navigation.

Ebb and Flow (TIDE)

You can check the ebb and flow of the tide.

•Information on "Point" that can be selected for each "Home City (Time Zone)" is displayed.

Information displayed is a rough guide. Please do not use it for ocean navigation.

Display the current ebb and flow of the tide.

In the watch mode or the surface mode, depress M button 8 or 9 times to switch to the [TIDE] display.

•Display the current ebb and flow of the tide at the selected point.



•It shows the average ebb and flow of the tide.

 If the tidal display is incorrect, check the date and time and the selected point setting. If it is still incorrect, correct the low tide time. (See page 114)

[Note] • The average ebb and flow is based on the assumption that the period from one high tide to the next high tide will be approximately 12 hours and 25 minutes, and the low tide will be in between.

Check the ebb and flow of the tide by specifying a different date and time.

It is possible to display the ebb and flow every hour before and after the current ebb and flow display.

- •You can proceed for 1 hour by depressing the P button.
- •You can go back one hour by depressing the L button.
- •You can fast forward by holding down the P or L button.

• If the minute unit of the current time is not 0 minutes, depressing the P button rounds down the minute unit and adds one hour. If the L button is depressed, the time is rounded down to the nearest minute.

[Note]

•If you change the date on the lunar age display or sunrise sunset display, change it to that date.

•Once you exit the tide / lunar age / sunrise sunset display, you will return to the TIDE display of the current time.



Adjust the high tide time.

By adjusting the high tide time according to the information on the Internet or newspapers, you can display more accurate tides. The high tide time varies depending on the location and season.

1) With ebb and flow (TIDE) displayed, use the P or L button to change to the date you want to adjust.

2) Depress and hold A button for 2 seconds or longer.

- •After [SET] [Hold] flashes, release the button when [HIGH] is displayed.
- 3) Depress M button to select "Hour" or "Minute".
- •The selected one will flash.
- 4) Depress P button (UP) or L button (DOWN) to set the "Hour" or "Minute".
- •You can fast forward by holding down the P or L button.
- •Even if the display is set to 12-hour system, it will be displayed in 24-hour system. 5) Depress A button.
- •The setting is completed.
- •You will get the adjusted high tide display.

[Note]

- •If there are high tide twice a day, please adjust to the first high tide time.
- . If the home city is in "DST ON", set the high tide time in summer time.
- •The adjusted high tide time will be cleared when the home city or points are changed.

Lunar Age / Moon Phases (MOON)

You can check the lunar age and moon phases.

Display the current ebb and flow of the tide.

1) Depress M button 8 times or 9 times in watch mode or surface mode to switch to the [TIDE] display.

2) Depress A button.

•The display switches to [MOON].

•Displays the lunar age and moon phases at noon today.



Moon Phases	Lunar Age	Display
New Moon	27.9~29.8 0~1.8	
	1.9~5.5	¢
First Quarter	5.6~9.2	¢
	9.3 ~ 12.9	O
Full Moon	13.0 ~ 16.7	\circ
	16.8 ~ 20.4	\mathbf{O}
Last Quarter	20.5~24.1	())
	24.2 ~ 27.8	(j)

[Note]

• The table shows the moon phases when looking up to the south with the Northern Hemisphere as the reference. When the moon is visible in the Southern Hemisphere, it looks like left and right.

 Depending on the longitude setting of the point, we have decided whether the moon phases is based on the Northern Hemisphere or the Southern Hemisphere, but it may look the opposite at low longitude.

•The lunar age error is ±1 day.

Check the lunar age and the moon phases by specifying a different date and time. It is possible to display the lunar age and the moon phases at the specified noon from the current lunar age display.

•You can proceed for 1 day by depressing the P button.

•You can go back one day by depressing the L button.

•You can fast forward by holding down the P or L button.

Sunrise Sunset Time (SUN)

You can check the "Sunrise Sunset Time".



Displays the sunrise and sunset times for today.
 Depress M button 8 times or 9 times in watch mode or surface mode to switch to the [TIDE] display.

2) Depress A button twice.

•The display switches to [SUN].

•Displays the sunrise and sunset times for today.

[Note]

•The sunrise/sunset time displayed is the times at sea level. There is an error in the sunrise and sunset times depending on altitude and terrain.

• If the sunrise and sunset times are not correct, check the settings such as the set point, latitude, and longitude.

•Even if the display is set to 12-hour system, it will be displayed in 24-hour system.

Check the sunrise and sunset times by specifying a different date and time. It is possible to display the sunrise and sunset times at the specified day from the current sunrise and sunset times display.

- •You can proceed for 1 day by depressing the P button.
- •You can go back one day by depressing the L button.
- •You can fast forward by holding down the P or L button.

Adjust the latitude and longitude.
By adjusting the latitude/longitude.





By adjusting the latitude/longitude of the set point, you can display the sunrise and sunset times of the place you want to check.

 With the "sunrise and sunset times" displayed, depress and hold A button for 2 seconds or longer. After [SET] [Hold] flashes, release the button when [LAT.] is displayed. The latitude adjustment screen is displayed.

•You can switch the latitude/longitude adjustment screen with the M button.

- •You can increase by 0.1 degree with P button.
- You can decrease by 0.1 degree with L button.
- •You can fast forward by holding down the P or L button.

•Depress A button to complete the setting. The adjustment range is as follows.

65.0° S (South Latitude 65.0°) ~ 0° N ~ 65.0° N (North Latitude 65.0°) 179.9° W (West Longitude 179.9°) ~ 0° E ~ 180.0° E (East Longitude 180.0°))

[Note] • The displayed moon phases changes depending on whether the latitude displayed here is south or north.

BAROMETRIC PRESSURE AND TEMPERATURE (BARO)

It displays current barometric pressure and temperature.



Barometric Pressure and Temperature Measuring

While in the Watch Mode or the Surface Mode, depress M button six times to enter the Barometer/Thermometer Mode.

- "BARO" is displayed and the current barometric pressure and temperature are displayed in about 1 second.
- It calculates every 5 seconds. It performs remeasurement by depressing P button.
- The screen continues to display for 60 minutes.
- Barometric Pressure Display

Measuring unit : 1 hPa (hectopascals)

Measuring range : 0~9999 hPa

When the barometric pressure deviates from the measuring range, numeric display changes to

"---" and dot display indicates "ERR".

Temperature Display

Measuring unit : 0.1 °C

Measuring range : -10~+60 °C

When the temperature deviates from the measuring range, numeric display changes to "---" and dot display indicates "ERR".

ILLUMINATION

The display is illuminated for easy reading in the dark.

Also, auto light switch turns on illumination automatically when you angle it in the dark.



Turn on illumination manually.
 Depress B button to turn on illumination.
 Illumination is disabled while an alarm is sounding.
 Illumination is disabled during sensor measurement.

•Turn on illumination automatically. (Auto Light) Ilumination turns on automatically when you angle the product more than 40°while the Auto Light Switch is on.

- [Note]
- •The auto light switch does not illuminate the display under bright light.
- •The auto light function does not operate when under the following conditions. While an alarm is sounding.
 - During a bearing sensor calibration is being performed in Digital Compass Mode.
- •The auto light function operates after sensor measurement is completed.
- Depending on timing, illumination may turn on late.

ILLUMINATION

Turn the Auto Light Switch On and Off

While in the Watch Mode or the Surface Mode, continue to depress B button for more than 3 seconds.

- Dot display indicates "LT" while the auto light switch is turned on.
- Dot display indicates "OFF" while the auto light switch is turned off.

[Note] • The auto light switch turns off automatically whenever battery power drops and display indicates "CHG".

Auto light switch precautions

Illumination may not turn on if the face of this product is more than 15 degree above or below

parallel.

- Wearing this product under your sleeve can cause frequent illumination of the display and may run down the battery.
- Static electricity or magnetic force may interfere with proper operation of the auto light switch.
 - In that case, try moving this product back to the position that is parallel to the ground and then tilt it again.
 - You may notice a clicking sound coming from this product when you tilt it. This sound is caused by operation of the auto light switch, and does not indicate a problem with the product.

You can change the illumination duration.

Please refer to "Illumination Duration Setting" in Other Settings (Page 123).

Other than time settings, you can change the following settings.

- Button operation tone
- Illumination duration
- Turn power saving on and off
- Unit setting
- DISP screen setting



* The number expresses the number of times to depress the M button.

Turn the Button Operation Tone On and Off

You can turn the button operation tone on or off as desired.

- 1. While in the Watch Mode or the Surface Mode, continue to depress A button for more than 2 seconds.
 - Release the button when a City Code and its city name are displayed as flowing following the display of "CITY" for about 1 second after "SET" "Hold" flashes.
- 2. Depress M button nine times.
 - It enters the screen to select the button operation tone on and off.
 - "KeyJ" or "MUTE" is displayed.
- 3. Depress P button to select "KeyJ" (operation tone on) or "MUTE" (operation tone off).
- 4. Depress A button.
 - Setting is completed.

[Note]

Even if you turn off the button operation tone, the alarm, Hourly Time Signal, and time up alert
operate normally.

Illumination Duration Setting

You can select the illumination duration.

- 1. While in the Watch Mode or the Surface Mode, continue to depress A button for more than 2 seconds.
 - Release the button when a City Code and its city name are displayed as flowing following the display of "CITY" for about 1 second after "SET" "Hold" flashes.
- 2. Depress M button ten times.
 - Screen displays "LIGHT".
 - "1" or "3" lights up in the middle of the screen.
- 3. Depress P button to select "1" (1.5 seconds duration) or "3" (3 seconds duration).
- 4. Depress A button.
 - · Setting is completed.

Turn Power Saving On and Off

You can turn power saving on and off.

- 1. While in the Watch Mode or the Surface Mode, continue to depress A button for more than 2 seconds.
 - Release the button when a City Code and its city name are displayed as flowing following the display of "CITY" for about 1 second after "SET" "Hold" flashes.
- 2. Depress M button eleven times.
 - Screen displays "POWER SAVING" as flowing and "ON" or "OFF" flashes in the middle of the screen.
- 3. Depress P button to select "ON" or "OFF".
- 4. Depress A button.
 - · Setting is completed.

DISP Screen Setting

You can set up DISP screen.

You can select "Current Depth" or "No-decompression Limit" as the basic screen of Dive Mode.

- 1. While in the Watch Mode or the Surface Mode, continue to depress A button for more than 2 seconds.
 - Release the button when a City Code and its city name are displayed as flowing following the display of "CITY" for about 1 second after "SET" "Hold" flashes.
- 2. Depress M button thirteen times.
 - Screen displays "DISP" and it switches to setup screen in about 1 second.
 - Screen displays "DEP" "1" or "NDL" "2".
- 3. Depress P button to select "DEP" "1" (Current Depth) or "NDL" "2" (No-decompression Limit).
- 4. Depress A button.
 - · Setting is completed.

Unit Setting

You can change unit of temperature and depth when you set the Home City in any place other than Tokyo (TYO).

When you select Tokyo (TYO) as the Home City, you cannot change the unit.

The unit of temperature is Celsius and the one of depth is meter when you select Tokyo (TYO) as the Home City.

- 1. While in the Watch Mode or the Surface Mode, continue to depress A button for more than 2 seconds.
 - Release the button when a City Code and its city name are displayed as flowing following the display of "CITY" for about 1 second after "SET" "Hold" flashes.
- 2. Select any city other than Tokyo (TYO) as the Home City by depressing P or L button.
 - Continue to depress P or L button for fast forward.
- 3. Depress M button twelve times.
 - Dot display indicates "UNIT", "°C" or "°F" is shown in the top of the screen and "m" or "ft" is displayed in the bottom of the screen.
- 4. Depress P button to select "m" or "ft". Depress L button to select "°C" or "°F".
- 5. Depress A button.
 - · Setting is completed.

SITUATIONS	CAUSES AND MEASURES
Display is weak.	At the time of low temperature, display may become weak. Please leave it as it is to see how it is going for a while. When a situation does not improve, please consult with your original dealer.
Inside of the glass screen mists.	When cooled suddenly, the inside of glass may mist. If the mist disappears soon, there is no problem. When the mist does not disappear or water remains inside, please stop use immediately and consult with your original dealer.
Log data has been recorded since I bought it.	These are test data left from quality inspection when shipped from the factory. It is not fault or abnormality.
DECO mark and STOP mark are flashing on the water surface.	It is because decompression stop violation was carried out. If it has been less than 10 minutes since the decompression stop violation warning came out, please perform the decompression stop at the depth required again. When 10 minutes or more have passed, you cannot use the product in diving for the next 48 hours.
EEEE mark and time are displayed alternately on the water surface.	It is because the violation gauge warning was given. You cannot use the product in diving for the next 48 hours.
It does not enter Dive Mode.	 Decompression stop violation warning or violation gauge warning was given. You cannot use the product in diving. It returns normal automatically when 48 hours pass after warning is issued. The product identifies that it is equivalent to the altitude level of 6,000m. Please leave it for a while or move to a lower altitude place. The shortage of battery can be considered. Please check a charge level. Please refer to "Shortage of and Out of battery" (Page 17). When diving in gauge mode, the gauge mode will be unlocked after 48 hours. If you dive in gauge mode, the gauge mode will be unlocked after 48 hours. When it does not correspond the above cases, failure of a sensor can be considered. Please consult with your original dealer.

SITUATIONS	CAUSES AND MEASURES
Not in freedive mode	 A violation of the decompression stop instruction or out of measurement range is being warned. Cannot be used for divining. If 48 hours have passed since the warning was issued The warning will automatically return after 48 hours. The altitude has been identified as equivalent to 6,000 meters. Please wait for a while or move to a lower altitude. The altitude has been identified as equivalent to 6,000 meters. Please Wait for a while or move to a lower altitude. The battery may be undercharged. Check the charge level. See page 17 for details. When there is still time to discharge nitrogen after normal diving. If you dive in the gauge mode, the gauge mode lock status will be released after 48 hours. If it is other than the above, the sensor may be faulty. Please consult your dealer.
The current time display is off by several hours.	The home city setting is incorrect. Please check your home city setting. Reference Home city and daylight saving time settings page 21
The current time display is off by one hour.	You will need to set the time to support daylight saving time. Reference Home City, Daylight Saving Time Settings page 21
ERR was displayed during measurement.	If the sensor or internal circuit malfunctions, [ERR] (error) will be displayed and the sensor function will become unusable. •When [ERR] is displayed during measurement, start measurement again. If [ERR] is displayed again, the sensor may be faulty. •If the ERR message does not disappear, the sensor may be faulty. Consult your dealer.

SITUATIONS	CAUSES AND MEASURES
After Bidirectional Calibration, it shows [ERR].	If [ERR] (error) is displayed after it appears on the correction screen, the sensor may be faulty. •If the [ERR] message disappears after about one second, try correcting again. •If the [ERR] display does not disappear, consult your dealer.
Accurate orientation measurement is not possible.	 Bidirectional Calibration is not accurate. Reference Bidirectional Calibration, page 100 When near strong magnetic fields such as home appliances, bridges, steel frames, and overhead wires, keep away from iron objects. Also, the measurement is not possible with trains, ships, etc. Reference Precautions at Digital Compass Measurement page 101
Different the Digital Compass Measurement results at the same location.	The geomagnetic detection is not stable due to the influence of nearby high- voltage power lines. Move away from the high-voltage power lines, etc., and retry the measurement.
Can't measure orientation at indoors.	Objects that disturb the direction of magnetism, such as TVs, computers, speakers, etc., are preventing the detection of the geomagnetic field. Move away from the influencing objects or take the measurement again outdoors. In particular, accurate measurement is not possible in a room with reinforced concrete structure. Also, measurements cannot be taken in a train or airplane.
The time in the set world time city is off.	The daylight saving time setting (Standard Time/Daylight Saving Time) is incorrect. Reference Home City, Daylight Saving Time Setting page 21

SITUATIONS	CAUSES AND MEASURES
[H], [M], and [L] are all flashing.	The device is in charge recovery mode. Please wait until it recovers (about 15 minutes). Charging in a bright place will speed up the recovery process. Reference: Charging method, page 16 If the sensor is used continuously for a short period of time, the amount of charge will rapidly decrease and the camera will switch to the charge recovery mode. In the charge recovery mode, [H], [M], and [L] all blink. The status will be the same as "Insufficient charge" and the functions that can be used will be limited. Reference: Insufficient or lost charge, page 17 When [H], [M], [L] and [CHG] are blinking together, the charge level is extremely low. Immediately charge the battery by exposing it to light.
Shortened usable time even after charging.	The battery (secondary battery) is charged by the light received by the solar panel, so there is no need to replace the battery periodically, but its performance will deteriorate through repeated charging and discharging over the years. If the battery is in a condition that interferes with use, we recommend replacing it, so please consult your dealer.

MAINTENANCE

How to maintain this product.

You wear a Dive Computer directly on your body like clothing. In order to use it for a long time, please wipe off any dirt, sweat and water, etc. frequently with a soft cloth. Use this product by keeping it always clean.

When sea water and mud stick, please wash away well with fresh water. Especially after diving in sea water, please wash away well after dipping in fresh water for a while.

When you find abnormalities on belt such as no elasticity, cracking, discoloration, slack, and running out / falling out of the pin of a buckle, please stop use. Please consult with your original dealer on check, repair, or exchange with a new belt.

Scrub and wash the metallic portion of a metal belt and a plastic belt with a soft toothbrush by using thinned neutral detergent with water and soapsuds. Then, please rinse a detergent ingredient well with water and wipe off the water with soft hygroscopic cloth. Also, when you wash, please keep detergent and soapsuds away from the body by rolling "kitchen wrap" around the body.

Please wash the plastic belt with water and wipe off the water with soft cloth. Although a pattern like a spot may come out on the surface of a plastic belt, it does not have the influence on a human body and clothing. Please wipe off with cloth.

If a button is not operated for a long period of time, a motion may worsen. Please touch a button sometimes.

In order to maintain waterproof performance, we recommend you a periodical airtight inspection (standard is 2 to 3 years). When a problem of airtightness is revealed in the airtight inspection, please ask your original dealer for maintenance service, such as exchange of packing seal.

SERVICE AFTER THE SALES

Precautions when you ask for repair.

 As the all log data currently recorded in the product may be eliminated when it is repaired, please copy the data in a logbook etc.

•When you send it to repair, please specify your request of repair, your name, your address and telephone number, and send it to your original dealer.

Reserving period of parts.

Our company reserves the performance parts (the parts required to maintain the function of the product) for dive computer repair for at least seven years after the production is discontinued. Since repair may be possible depending on a problem even after this reserving period passes, please consult with your original dealer or authorized distributor of our company.

SPECIFICATIONS

Time accuracy : ±15 seconds a month
 Basic functions : Hour, minutes, seconds, year, month, day, day of the week, a.m./p.m. (P), 24-hour format, full auto-calendar (up to year 2099)

○ Sensor precision Bearing sensor : Within ±10° Temperature sensor : Within ±2°C Pressure sensor : ±1% + 0.5m
 Measuring interval Depth measurement : 1 second 0.5 seconds when freediving Water temperature measurement : 1 second Barometric pressure measurement : 20 seconds
 Measuring range Depth I.5m - 99.9m (Based on sea water) Dive time 0 - 599 min. Operating barometric pressure More than 460 hPa (Approx. up to 6,000m) Temperature -10 - 60°C Direction 0 - 359°Bearing sensor calibration function (Bidirectional calibration)
• Fraction of oxygen : 21 (compressed air) - 50% (1% interval)
• Waterproof : 100m
\circ Log data : 30 dives (Scuba and Free diving combined)
 Stopwatch Measuring unit : 1/10 second Measuring range : 999 hours 59 minutes 59.9 seconds Measuring modes : ±0.0006% Measuring modes : Time, elapsed time, split time, two finishes

SPECIFICATIONS

∘ Alarm ∶	Time alarm 4usual alarms 1 snooze alarm Setting unit : Hour, minutes Alarm sounds for 10 seconds. Hourly time signal : Electronic sound reports twice every hour on the hour.
 Other ∶ 	LED light. Selectable illumination duration. Full Auto Light. Power Saving Battery power indicator. Button operation tone on and off.
∘ Battery	Rechargeable battery Operating time from the full charge condition without the solar generation: Approx. 1 month (1 one-hour dive a day)
 Decomp 	ression model: A. A. Buhlman 16 tissue
 ○ Altitude 	diving : Barometric pressure linked non-step calculation system The system measures the barometric pressure of the place where the diver moves, and calculates accumulation and discharge of nitrogen and oxygen by non-step according to the barometric pressure. This calculation system is higher-precision than an altitude rank switching.
 Bluetoot 	h Bluetooth ver. 4.1 Single mode (Bluetooth Smart)

Safety factor : 3 level switching system

Depth (m)	9	12	15	18	21	24	27	30	33	36	39	42	45	48
SF-0	200	104	66	46	35	25	2 0	16	14	11	9	8	7	6
S F — 1	200	95	60	44	33	23	19	16	13	11	9	8	7	6
S F – 2	180	80	52	39	30	22	17	15	13	11	8	7	6	5

Setting standard of each safety level. (NDL at the time of 1013hPa)

CITY CODE TABLE

Please confirm the time zone you need on the map.



City Code Table

City Code	City	UTC Offset / GMT Differential
UTC	•	0
LIS	Lisbon	0
LON	London	0
MAD	Madrid	+1
PAR	Paris	+1
ROM	Rome	+1
BER	Berlin	+1
STO	Stockholm	+1
ATH	Athens	+2
CAI	Cairo	+2
134		

CITY CODE TABLE

City Code	City	UTC Offset / GMT Differential
City Code JRS MOW JED THR DXB KBL KHI DEL KTM DAC RGN BKK SIN BKK SIN BKK SIN BKK SIN BKK SIN BJS TPEL TYOL GUM SYDL NOU WLG HNL ANC YVR YEA DEN YEA DEN MEX	City Jerusalem Moscow Jeddah Tehran Dubai Kabul Karachi Delhi Kathmandu Dhaka Yangon Bangkok Singapore Hong Kong Beijing Taipei Seoul Tokyo Adelaide Guam Sydney Noumea Weilington Pago Pago Honolulu Anchorage Vancouver Los Angeles Edmonton Denver	+2 +3 +3 +3 +3,5 +4 +4,5 +5 +5,75 +5,75 +6 +6 +6,5 +7 +8 +8 +8 +8 +9 +9 +9 5,55 +10 +10 +11 +11 +12 -11 -10 -9 -8 -8 -7 -7 -7 -6
CHI NYC SCL	Chicago New York Santiago	-6 -5 -4
YH7	Halifax	-4

CITY CODE TABLE

City Code	City	UTC Offset / GMT Differential
YYT	St. Johns	-3.5
RIO	Rio De Janeiro	-3
FEN	Fernando de Noror	nha -2
RAI	Praia	-1

 As of December, 2012, though the time difference (UTC offset) of Moscow has been changed to "+4", it does not correspond with this product. Please use it by setting summer time (DST) forward for 1 hour.

This list is the city code table of this product.

•When the city code to set up is unknown, please check the time difference (UTC offset) of the place to use and choose the city code with the same time difference.

Time difference is based on Universal Time Coordinated (UTC).

POINT CODE TABLE

Point Code Table

LONDON LA CORUNA SHARM EL SHEIKH SOUTH AFRICA ĨĔĎĎĂH BANDAR-E LENGEH PORT LOUIS MALDIVĔŠ MUMBAI KATHMANDU CHITTAGONG YANGON PHUKET KHAOLAK MANADO BALI PARTH CEBU RAUSU SHAKOTANHANTOU USUIIRI TAPPI ΤΑΝΟΗΑΤΑ OKIRAI **O** G A H A N T O U TOBISHIMA ONAGAWA KASHIWAZAKI NAMERIKAWA ΝΟΤΟΙΙΜΑ ECHIŽEN ITO OSHIMA NIIJIMA

Prefectures (Country) Point

England Spain Egypt South Africa Saudi Arabia Iran Mauritius Maldives India Nepal Bangladesh Myanmar Thailand Thailand Indonesia Indonesia Australia Philippines Hokkaido Hokkaido Hokkaido Aomori Iwate Iwate Akita Yamagata Mivagi Niigata Tovama Ishikawa Fukui Chiba Tokvo Tokyo

London La Coruna Sham el Sheikh South Africa Ieddah Bandar-e Lengeh Port Louis Maldives Mumbai (Bombay) Kathmandu Chittagong Yangon (Rangoon) Phuket Similan Manado Bali Perth Cebu Rausu Shakotanhantou Hakodate, Usuiiri Таррі Tanohata Okirai Ogahantou Tobishima Onagawa (Takenoura) Kashiwazaki Namerikawa Notoiima Echizen Ito Oshima Niiiima

POINT CODE TABLE

Point Code Table Code Prefectures (Country) Point KOZUSHIMA Tokyo MIYAKEJIMA HACHIJOJIMA Tokvo Tokvo O G Ă S Ă ŴĂ Ř Ă S Y O T O U Tokvo JOGASHIMA Kanagawa MANAZURU Kanagawa IZU KĂĪŶOUKOUEN Shizuoka MIKOMOTO Shizuoka TOI Shizuoka Toi ÔŠĒZAKI Shizuoka NANSEI Mie KUKI Mie Kuki KÜSHIMOTO Wakayama TĂKENO Hvogo HIWASA Tokushima NISHIUMI Ehime KASHIWAJIMA Kochi TAIIRI Tottori ÔKĬ Shimane Oki OOMIJIMA Yamaguchi HAKATAWAN Fukuoka KARATSU Saga KAMAE Oita GOTORETTO Nagasaki NOBEOKA Miyazaki AMAKUSA Kumamoto KINKOUWAN Kagoshima IOJIMĂ Kagoshima AMAMIOSHIMA Kagoshima YOMITAN Okinawa KUMEJIMA Okinawa KERAMA Okinawa МІҮАКОЈІМА Okinawa YONAGUNI Okinawa

Kozushima Mivakeiima Hachijojima Ogasawarasvotou Iogashima Manazuru Izu Kaivoukouen Mikomoto Osezaki Nansei Kushimoto Takeno Hiwasa Nishiumi Kashiwaiima Taiiri Oomijima Hakaťawan Karatsu Kamae Gotoretto Nobeoka Amakusa (Ushibuka) Kinkouwan Iojima Amamioshima Yomitan Kumejima Kerama Miyakojima Yonaguni

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Point Code Table Prefectures (Country) Point Code I S H I G A KIJI M A I R I OMO T E J I M A Okinawa Ishigakijima Okinawa Iriomoteiima PALAU Palau Palau PORT ADELAIDE Australia Port Adelaide GÜÂM US Mariana Islands Guam SAIPAN US Northern Mariana Islands Saipan ROTA US Northern Mariana Islands Rofa CAIRNS Australia Great Barrier Reef PAPUA NEW GUINEA NEW CALEDONIA Papua New Guinea Papua New Guinea New Caledonia New Caledonia FIJI Fiii Fiii PÁGÓ US Samoa PAGO Pago Pago TAHIT French Polynesia Tahiti ANCHORAGE USA Anchorage Knik Arm VANCOUVER Canada Vancouver LA PĂŽ GALVESTON Mexico Baia California USA Galveston TX CANCUN Mexico Cancun COZUMEL Mexico Cozumel CAYMAN British Cayman Islands Cayman BAHAMAS Bahamas Bahamas ST.JOHNS Canada St. Ihons RIO DE JANEIRO Brazil Riode Ianeiro F.DE NORONHA Brazil Fernando de Noronha PRAIA Cabo Verde Praia

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