Deep6 Excursion

USER MANUAL
V 1.0 (Beta)

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1. Screen and Functions -
1.1 Buttons function

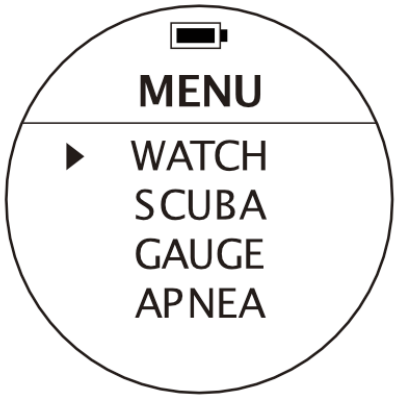
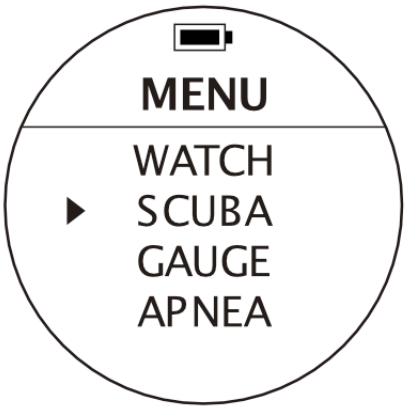
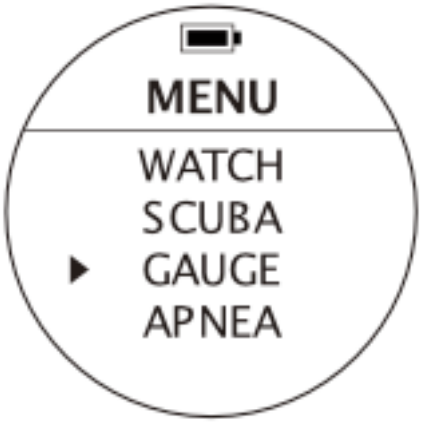
Locate： **Left Top**
Name **：** **Power Key**
Func **：** **Power Switch / Escape**

Locate： **Right Top**
Name **：** **Up Key**
Func **：** **Move Up / Quick Settings.**

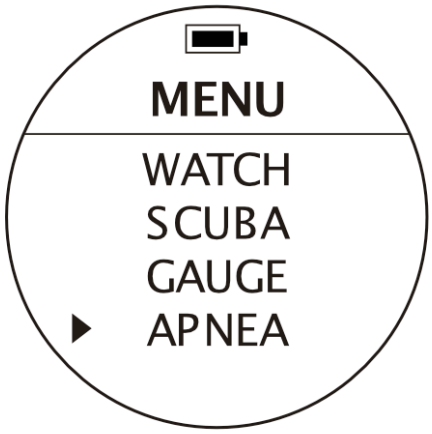
Locate： **Left Middle**
Name **：** **Mode Key**
Func **：Menu / Enter**

Locate： **Left Down**
Name **：** **Down Key**
Func **：Move Down / More info (Watch Mode)**

1.2 Main Menu

1.2Main Menu	
	**Description**： Watch Mode **Enter**： Default Screen when turn on. **Others** : or Choose the WTACH mode under the main menu
	**Description**： Scuba Mode **Enter**： When dive into the water, Scuba Mode will be automatically active if your default mode settings is “SCUBA”. **Others**： Or Choose the SCUBA mode under the main menu
	**Description**： Gauge Mode **Enter**： When dive into the water, Gauge Mode will be automatically active if your default mode settings is “Gauge”. **Others**：Or Choose the Gauge mode under the main menu

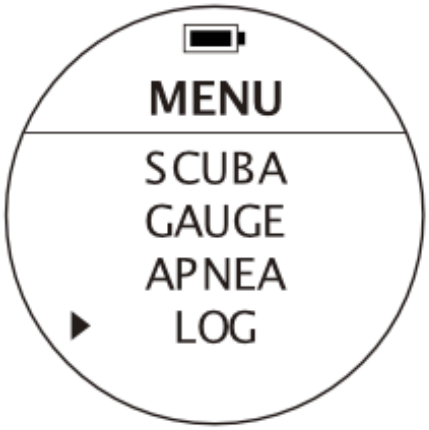
1.2Main Menu



Description： Apnea Mode (Free dive)

Enter： When dive into the water, APNEA Mode will be automatically active if your default mode settings is “APNEA”.

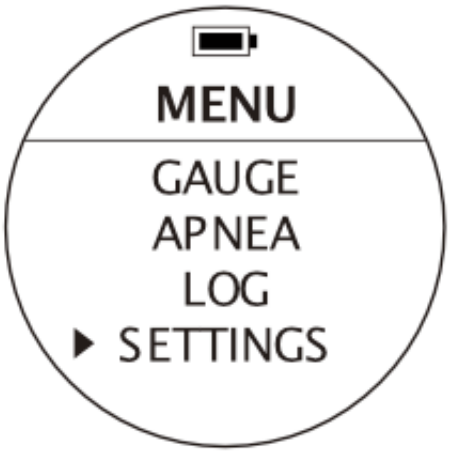
Others：Or Choose the APNEA mode under the main menu



Description： Dive Logs

Enter： Press the mode button, and choose LOG mode.

Others： Once entered, press UP / DOWN key to see the logs in order.

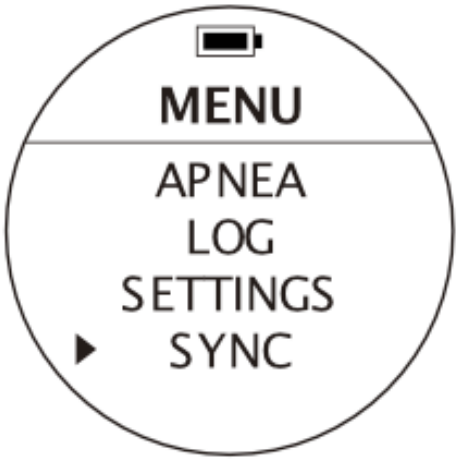


Description： Settings

Enter： Press the mode button, and choose SETTINGS mode.

Others： Once entered, press UP / DOWN key to see the options in order.

1.2Main Menu



Description： Sync Mode

Enter： Press the mode button, and choose SYNC mode.

Others： Once entered, computer will wait for the connection from your devices.

1.3 Watch Mode and Setting

1.3.1 Watch Mode

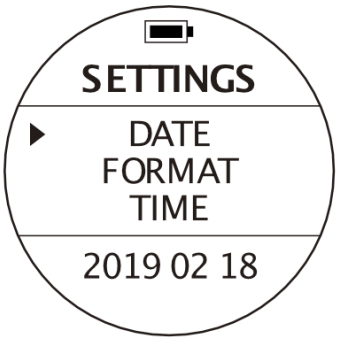
Description：The default screen when turn on.

Enter： By pressing esc to the top layer, or choose the watch mode from the menu.

Others：

1. When the device has no any operation under the watch mode screen, it will enter the standby mode (no screen), and for a longer period (about 24 hrs) without any operation, then enter the hibernation status.
2. Under the standby mode, you may wake up the device by twisting it about 45 degree, or press any buttons. If you dive into the water, it will switch to the dive mode after 1.5M.
3. Under the hibernation mode, you can only turn on the device by pressing the power button, all the settings and data will remain in it. Please notice that, always check your device before your dive.

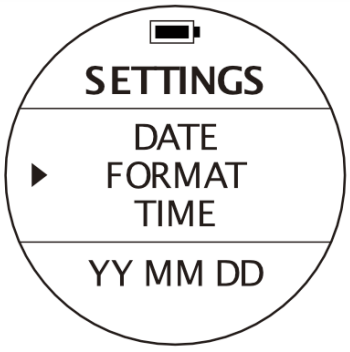
1.3.2 Watch Mode Settings



Description： Date Settings

Enter： Press the Up Ley under the watch mode, or from the Menu -> Setting.

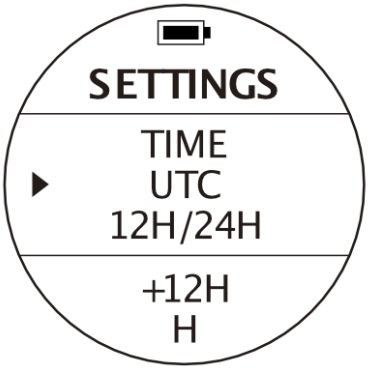
Others：Move up or down to the DATE and press Middle Key to enter, then you will see the dates is blinking, then press Up or Down to adjust, then press the Middle key to confirm and next setting, until stop blinking and finish the settings.



Description： Date Format Settings

Enter： Press the Up Key under the watch mode, or from the Menu -> Setting.

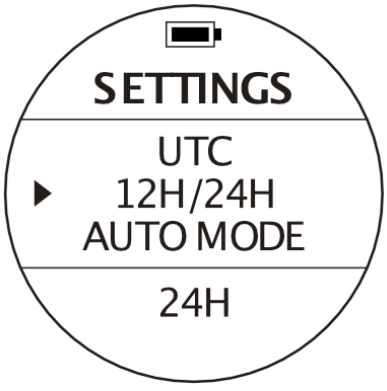
Others：Move up or down to the FORMAT and press Middle Key to enter, then you will see the YY MM DD is blinking, then press Up or Down to adjust, then press the Middle key to confirm and next setting, until stop blinking and finish the settings.



Description： Date Format Settings

Enter： Press the Up Key under the watch mode, or from the Menu -> Setting.

Others：Move up or down to the UTC and press Middle Key to enter, then you will see a blinking, then press Up or Down to adjust, then press the Middle key to confirm and next setting, until stop blinking and finish the settings.

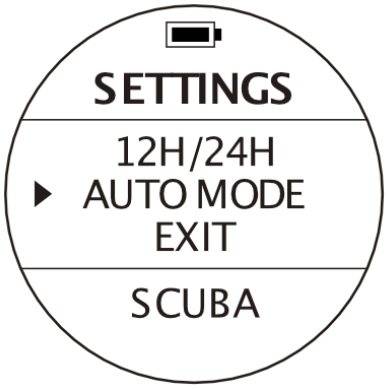


Description： Date Format Settings

Enter： Press the Up Key under the watch mode, or from the Menu -> Setting.

Others：Move up or down to the UTC and press Middle Key to enter, then you will see a blinking, then press Up or Down to adjust, then press the Middle key to confirm and next setting, until stop blinking and finish the settings.

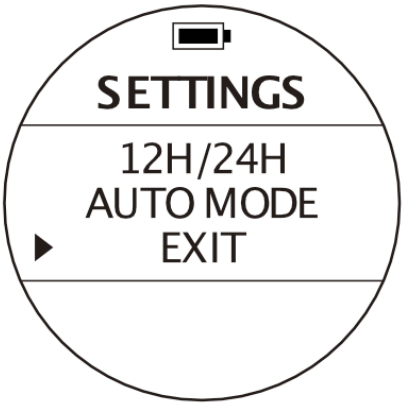
1.3.2 Watch Mode Settings



Description： Auto active mode when dive into the water.

Enter：Press the Up Key under the watch mode, or from the Menu -> Setting.

Others：Move up or down to the AUTO MODE and press Middle Key to enter, then you will see a blinking, then press Up or Down to select, then press the Middle key to confirm, until stop blinking and finish the settings.

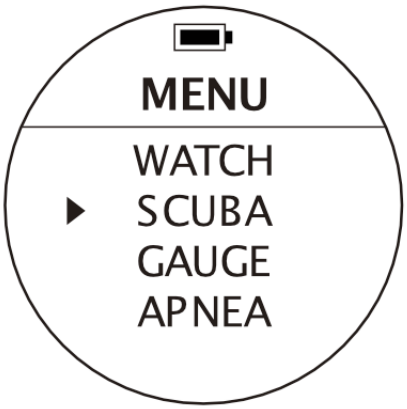


Description： Exit

Press to exit the current page.

1.4 Scuba Mode and Settings

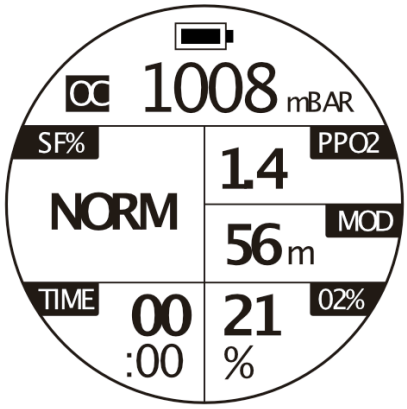
1.4.1 Scuba Mode



Scuba Mode

Enter： Press the Up Ley under the watch mode, or from the Menu -> Setting.

Others：Move up or down to the DATE and press Middle Key to enter, then you will see the dates is blinking, then press Up or Down to adjust, then press the Middle key to confirm and next setting, until stop blinking and finish the settings.



Description: Scuba Preview Mode

：Battery Status

1008 mBar: Current Atmosphere Pressure (No mBar shows on screen after C01-2F)

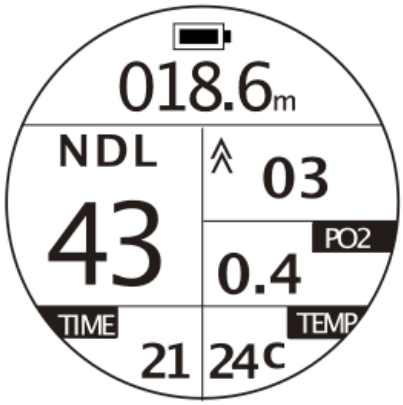
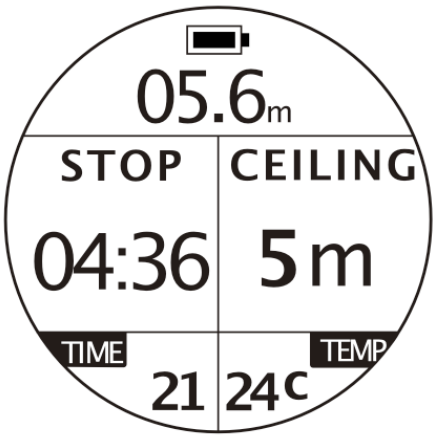
SF%: Conservativeness, there are 3 levels, Normal (NORM), Conservative (CONS), and Aggressive (AGGR), representative the different setting and affect the algorithm calculation.

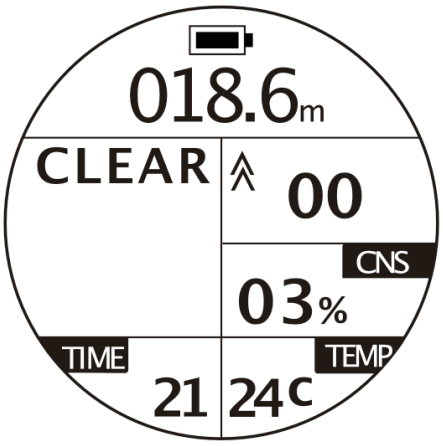
PPO2: User preset partial pressure of the oxygen between 1.2 - 1.6.

MOD: Max operation dpeth. based on the PPO2 settings and the O2 percentage settings, the maximum depth that diver can go.

TIME: Dive Time

O2%：the O2 percentage of the gas.

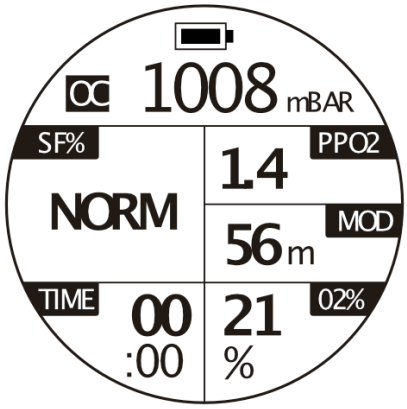
	**Description: Scuba Under Water Mode** 18.6m: Current Depth NDL: The Non-Decompression Limit time in minutes. PPO2: Current PPO2, there has alarm if reaching the limit. : Ascent speed in Meter/Min, If reach the 10M/minutes, there has alarm. TIME: Dive time. TEMP：Water temperature.
	Description: Scuba Under Water Mode - When exceed the NDL NDL: When exceed the NDL time, the first 3 mins will be shown seconds, when exceed time over 3 mins, the NDL time is shown in minutes. CEILING: When exceed the NDL, means diver is not allow to decent to the surface without any stop, CEILING shows the depth that diver should stop and wait for the stop count down to reduce the risk After NDL, the maximum depth to which the diver can rise.。
	**Description: Scuba Under Water Mode - When exceed the NDL and ascent to ceiling depth.** STOP: Stop time for the deco stop, when you exceed the NDL, and back to the ceiling depth, stop time shows and start to counting down, please follow the stop time if you have enough gas and no other potential risks. CEILING: the depth that yo should stay when you are taking the deco stop.



Description: Scuba Under Water Mode - When exceed the NDL and finished the ceiling depth stop.

CLEAR：When you finish the deco stop at the ceiling depth, it shows CLEAR means the stop finished, you may slowly ascent to surface.

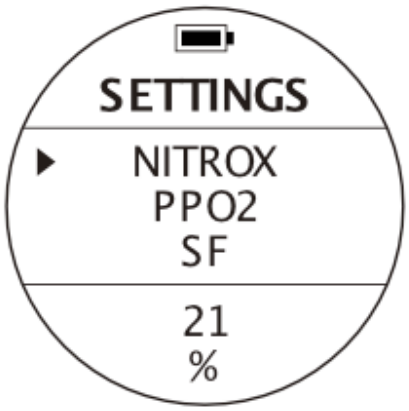
1.4.2 Scuba Mode Settings



Description: Scuba Preview Mode

Press the Top Right buttons to enter the settings.

Notes: Scuba mode settings is available only under the predate mode



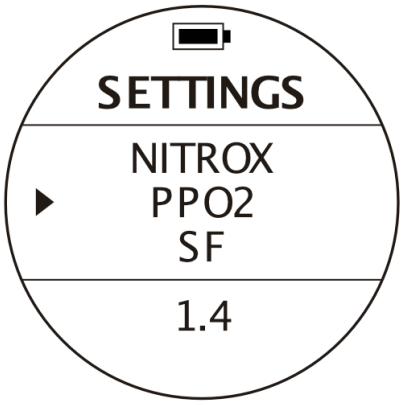
Description： Nitrox Setting.

Enter：Press the Up Key under the Scuba Mode - Preview, or from the Menu -> Setting.

Others：Move up or down to the NOTROX and press Middle Key to enter, then you will see a blinking, then press Up or Down to select, then press the Middle key to confirm, until stop blinking and finish the settings. You may set the O2% range is 21 - 56.

Notes : Please make sure you have measure the gas combination and correctly input to your computer. Before you use the NITROX, you MUST have received a proper training with certifications and aware the related risk of the NITROX.

1.4.2 Scuba Mode Settings

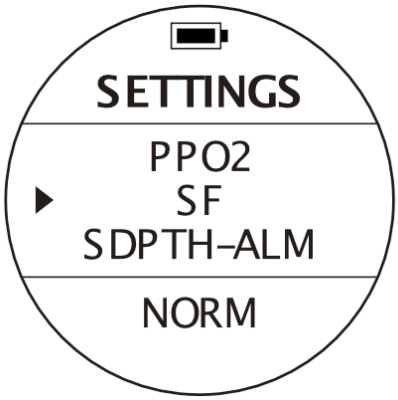


Description： PPO2 Setting.

Enter：Press the Up Key under the Scuba Mode - Preview, or from the Menu -> Setting.

Others：Move up or down to the PPO2 and press Middle Key to enter, then you will see a blinking, then press Up or Down to select, then press the Middle key to confirm, until stop blinking and finish the settings. You may set the range is form 1.2 - 1.4

Notes：Please notice that, before you change the PPO2 settings, make sure you understand the related risk and changing, default is 1.4



Description： Safety Factor - Conservativeness Setting.

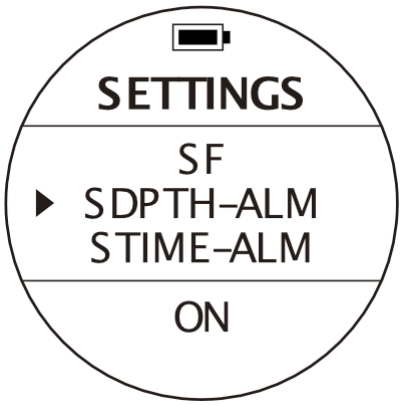
Enter：Press the Up Key under the Scuba Mode - Preview, or from the Menu -> Setting.

Others：Move up or down to the SF and press Middle Key to enter, then you will see a blinking, then press Up or Down to select, then press the Middle key to confirm, until stop blinking and finish the settings. there are 3 levels, Normal (NORM), Conservative (CONS), and Aggressive (AGGR).

Notes：Please make sure you have fully understand that change the settings will affect the algorithm calculation, and you knows the related risks.

Safety Factor Note: *The Safety Factor levels (SF 1-3) roughly correspond with the Gradient Factor pairs of 35/75, 40/85, and 45/95. A Safety Factor Line has been applied to each to provide an additional margin level of safety for divers.*

1.4.2 Scuba Mode Settings

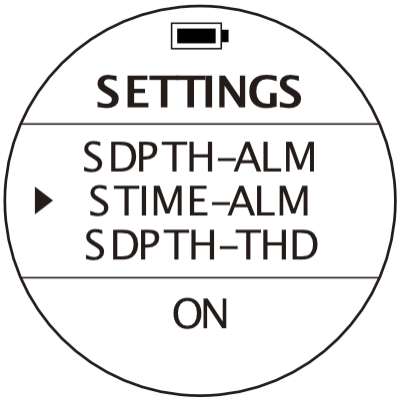


Description： Depth Alarm - on./off.

Enter：Press the Up Key under the Scuba Mode - Preview, or from the Menu -> Setting.

Others：Move up or down to the SDPTH-ALM and press Middle Key to enter, then you will see a blinking, then press Up or Down to select, then press the Middle key to confirm, until stop blinking and finish the settings. If you set the SDPTH-ALM is on and when you reach the preset depth, the alarm will be active.

Notes: SDPTH-ALM, S stands for Scuba, DPTH stands for Depth, ALM represent Alarm.



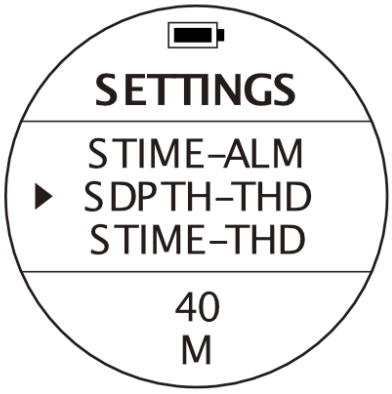
Description： Dive Time Alarm - on./off.

Enter：Press the Up Key under the Scuba Mode - Preview, or from the Menu -> Setting.

Others：Move up or down to the STIME-ALM and press Middle Key to enter, then you will see a blinking, then press Up or Down to select, then press the Middle key to confirm, until stop blinking and finish the settings. If you set the STIME-ALM is on and when you reach the preset dive time, the alarm will be active.

Notes: STIME-ALM, S stands for Scuba, TIME stands for Dive Time, ALM represent Alarm.

1.4.2 Scuba Mode Settings



Description： Depth Alarm Setting.

Enter：Press the Up Key under the Scuba Mode - Preview, or from the Menu -> Setting.

Others：Move up or down to the SDPTH-THD and press Middle Key to enter, then you will see a blinking, then press Up or Down to select, then press the Middle key to confirm, until stop blinking and finish the settings. If you reach the SDPTH-THD depth, the alarm will be active.

Notes：SDPTH-THD, S stands for Scuba, DPTH stands for Depth, THD represent Threshold.

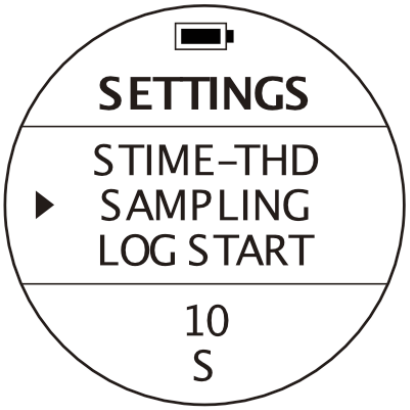
Description： Dive Time Alarm Setting.

Enter：Press the Up Key under the Scuba Mode - Preview, or from the Menu -> Setting.

Others：Move up or down to the STIME-THD and press Middle Key to enter, then you will see a blinking, then press Up or Down to select, then press the Middle key to confirm, until stop blinking and finish the settings. If you reach the STIME-THD dive time, the alarm will be active.

Notes：STIME-THD, S stands for Scuba, TIME stands for Dive Time, THD represent Threshold.

1.4.2 Scuba Mode Settings

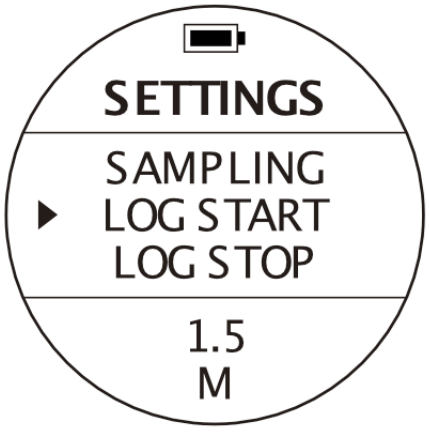


Description： Sampling Rate.

Enter：Press the Up Key under the Scuba Mode - Preview, or from the Menu -> Setting.

Others：Move up or down to the SAMPLING and press Middle Key to enter, then you will see a blinking, then press Up or Down to select, then press the Middle key to confirm, until stop blinking and finish the settings.

Notes：Sampling rate mean the sensor will record and save in Log Memory, the longer sampling rate occupier less memory space, shorter rates needs more space in the log memory.



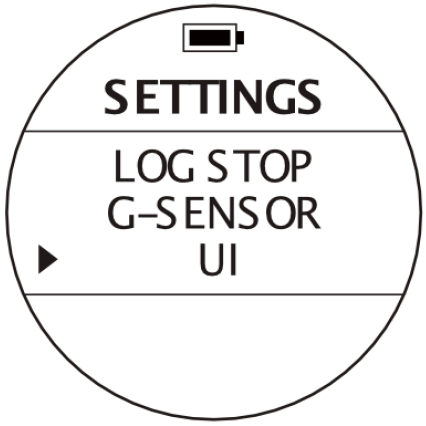
Description： Log Start Depth Setting.

Enter：Press the Up Key under the Scuba Mode - Preview, or from the Menu -> Setting.

Others：Move up or down to the LOG START and press Middle Key to enter, then you will see a blinking, then press Up or Down to select, then press the Middle key to confirm, until stop blinking and finish the settings. Preset range is 1.5 - 3M

Notes：Preset range is 1.5 - 3M

1.4.2 Scuba Mode Settings



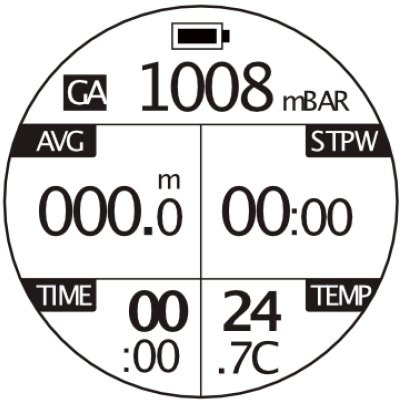
Description： Scuba User Interface Setting

Enter：Press the Up Key under the Scuba Mode - Preview, or from the Menu -> Setting.

Others：Move up or down to the UI and press Middle Key to enter, then you will see a blinking, then press Up or Down to select, then press the Middle key to confirm, until stop blinking and finish the settings.

Notes：Preset options are LARGE and NORMAL. When you set the large screen, please see the following instructions.

1.5 Gauge Mode

<table>
<tr><th colspan="2">1.5 Gauge Mode</th></tr>
<tr>
<td> 
</td>
<td>Description: Gauge Mode

：Battery Indication

1008 mBar: Current ATM

AVG：Average Depth in the current stage

STPW：Stop Watch - Dive Time in the current stage

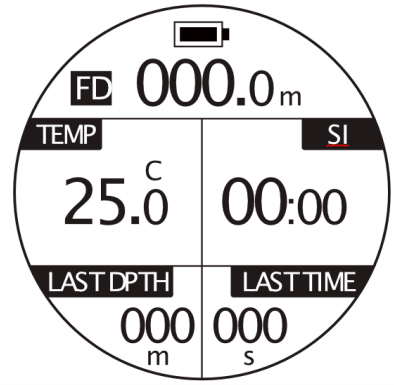
TIME: Dive Time

TEMP：Water temperature.

Notes: you may reset the AVG - Average Depth and and STPW - Stop Watch - Dive Time in the current stage by pressing the Right Top Button to reset during the dive.</td>
</tr>
</table>

1.6 Apnea Mode and Settings

1.6.1 Apnea Mode



Description: Apnea Mode (Free Diving)

: Battery Indication

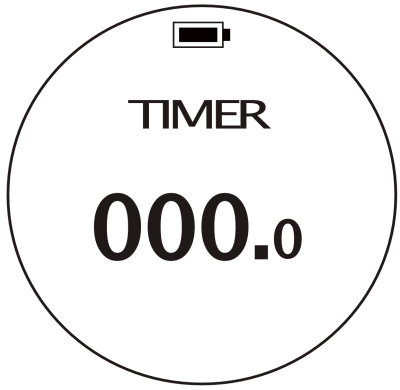
000.0m: Current Depth

SI：Surface Interval

LAST DPTH：Max Depth of the last dive

LAST TIME: Dive Time of the last dive

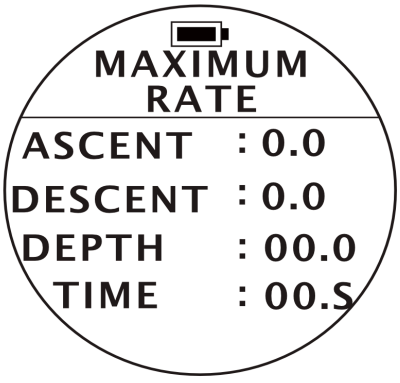
TEMP：Water temperature.



Description： Stop Watch

Enter：Press the Down Key under the Apnea Mode.

Others：In the Stop Watch function, TOP key is Start/Pause, MIDDLE Key is reset, DOWN key is next page and leave the stop watch function and enter the info page.



Description： APNEA MAX history

Enter：Press the Down Key under the STOP WATCH Mode.

Others：

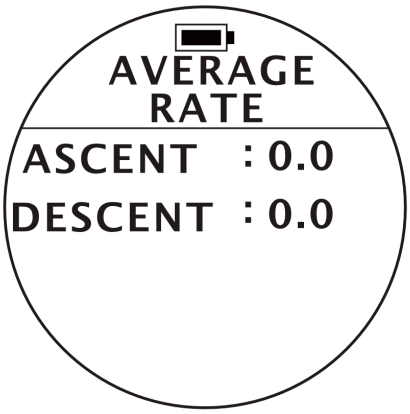
ASCENT：MAX Ascent Speed

DESCENT：MAX Descent Speed

DEPTH：MAX Depth

TIME：MAX Descent time

1.6.1 Apnea Mode



Description： APNEA AVERAGE history

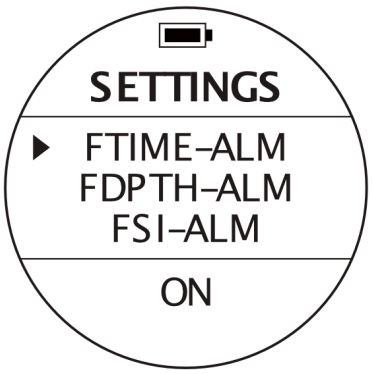
Enter：Press the Down Key under the MAXIMUM RATE Mode.

Others：

ASCENT：Average Ascent speed

DESCENT：Average Descent speed

1.6.2 Apnea Mode Settings



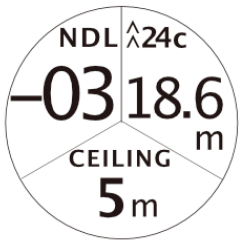
Description： Dive Time Alarm - on./off.

Enter：Press the Up Key under the Apnea Mode - or from the Menu -> Setting.

Others：Move up or down to the FTIME-ALM and press Middle Key to enter, then you will see a blinking, then press Up or Down to select, then press the Middle key to confirm, until stop blinking and finish the settings. If you set the FTIME-ALM is on and when you reach the preset dive time, the alarm will be active.

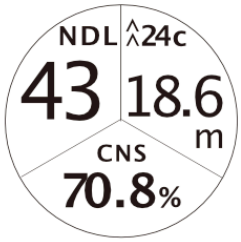
Notes: FTIME-ALM, F stands for FreeDiving, TIME stands for Dive Time, ALM represent Alarm.

Under water mode
Normal Status.



Under water mode
Exceed NDL
Shows Ceiling Depth
When reach the ceiling
shows the stop time
by counting down

Under water mode
Exceed PPO2 settings
Shows PPO2 and flashing.



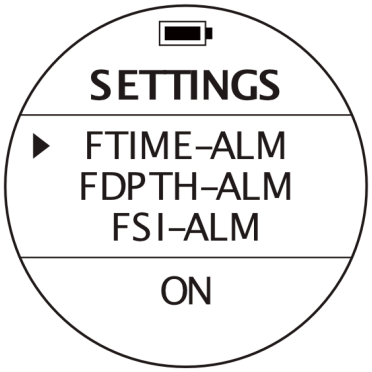
Under water mode
Reach the CNS value
Shows percentage and flashing.

Under water mode
Safety Stop counting down.

Under water mode
Safety Stop finished.

Under water mode
Ascent too fast.

1.6.2 Apnea Mode Settings

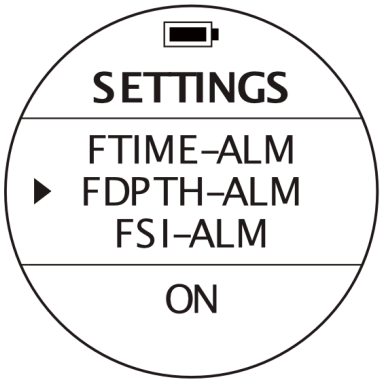


Description： Dive Time Alarm - on./off.

Enter：Press the Up Key under the Apnea Mode - or from the Menu -> Setting.

Others：Move up or down to the FTIME-ALM and press Middle Key to enter, then you will see a blinking, then press Up or Down to select, then press the Middle key to confirm, until stop blinking and finish the settings. If you set the FTIME-ALM is on and when you reach the preset dive time, the alarm will be active.

Notes: FTIME-ALM, F stands for FreeDiving, TIME stands for Dive Time, ALM represent Alarm.



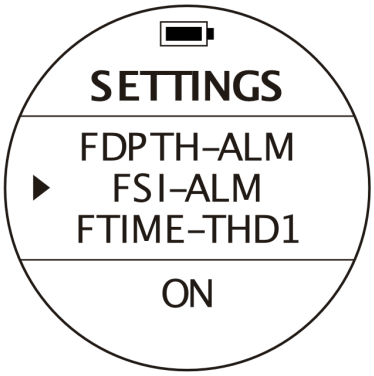
Description： Dive Depth Alarm - on./off.

Enter：Press the Up Key under the Apnea Mode - or from the Menu -> Setting.

Others：Move up or down to the FDPTH-ALM and press Middle Key to enter, then you will see a blinking, then press Up or Down to select, then press the Middle key to confirm, until stop blinking and finish the settings. If you set the FDPTH-ALM is on and when you reach the preset dive time, the alarm will be active.

Notes: FDPTH-ALM, F stands for FreeDiving, DPTH stands for Depth, ALM represent Alarm.

1.6.2 Apnea Mode Settings

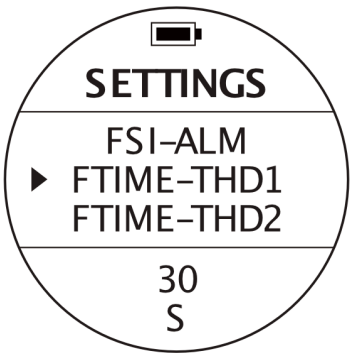


Description： Surface Interval Alarm

Enter：Press the Up Key under the Apnea Mode - or from the Menu -> Setting.

Others：Move up or down to the FSI-ALM and press Middle Key to enter, then you will see a blinking, then press Up or Down to select, then press the Middle key to confirm, until stop blinking and finish the settings. If you set the FSI-ALM is on and when you reach the preset dive time, the alarm will be active.

Notes: FSI-ALM, F stands for FreeDiving, SI stands for Surface Interval, ALM represent Alarm.



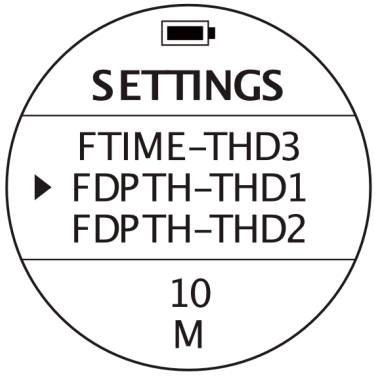
Description： Dive Time Alarm Setting.

Enter：Press the Up Key under the APNEA Mode - Preview, or from the Menu -> Setting.

Others：Move up or down to the FTIME-THD1 - 3 and press Middle Key to enter, then you will see a blinking, then press Up or Down to select, then press the Middle key to confirm, until stop blinking and finish the settings. If you reach the FTIME-THD - Time, the alarm will be active. There are 3 alarm could be set.

Notes: FTIME-THD, F stands for Freediving, TIME stands for Dive Time, THD represent Threshold.

1.6.2 Apnea Mode Settings

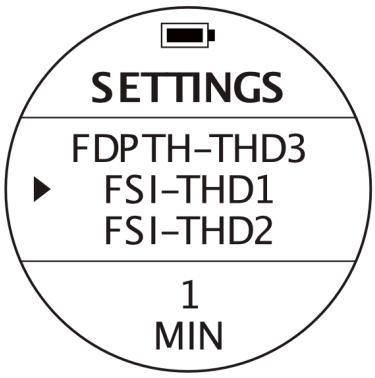


Description： Depth Alarm Setting.

Enter：Press the Up Key under the APNEA Mode - Preview, or from the Menu -> Setting.

Others：Move up or down to the FDPTH-THD1 - 3 and press Middle Key to enter, then you will see a blinking, then press Up or Down to select, then press the Middle key to confirm, until stop blinking and finish the settings. If you reach the FDPTH-THD - Depth, the alarm will be active. There are 3 alarm could be set.

Notes: FDPTH-THD, F stands for Freediving, DPTH stands for Depth, THD represent Threshold.



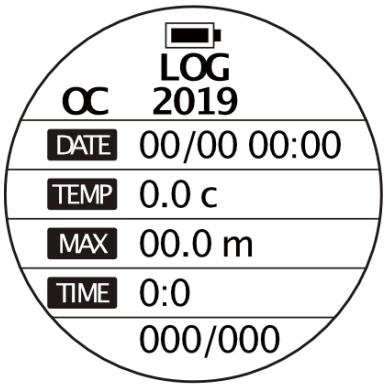
Description： Surface Interval Setting.

Enter：Press the Up Key under the APNEA Mode - Preview, or from the Menu -> Setting.

Others：Move up or down to the FSI-THD1 - 3 and press Middle Key to enter, then you will see a blinking, then press Up or Down to select, then press the Middle key to confirm, until stop blinking and finish the settings. If you reach the FSI-THD - Surface Interval time, the alarm will be active. There are 3 alarm could be set.

Notes: FSI-THD, F stands for Freediving, SI stands for Surface Interval, THD represent Threshold.

1.7 Log Mode

<table>
<tr><th colspan="2">1.7 Log Mode</th></tr>
<tr><td> 
</td><td>Description： Log Mode.

OC: Open Circuit Scuba mode. If Freedive logs shows F, Gauge dives shows GA

DATE: Dive Date and Time

MAX：Max depth of the dive

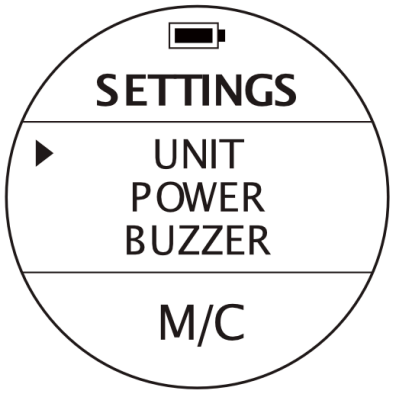
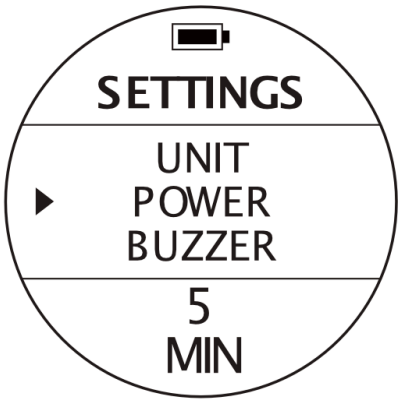
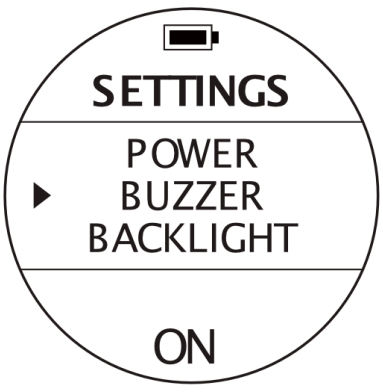
TIME: Dive time

TEMP：Water temperature.

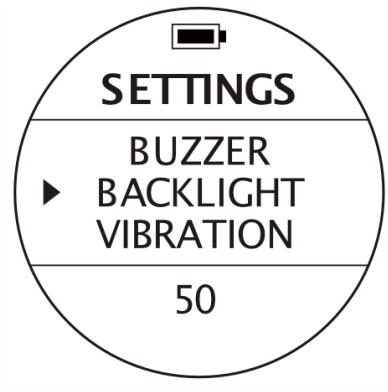
000 / 000 : Log Number / Total Logs

Notes: you may press UP or DOWN keys to scroll up or down to view other logs.</td></tr>
</table>

1.8 Settings Mode

1.8 Settings	
	**Description**： Unit Setting. **Enter**：From the Menu -> Setting -> Select UNIT. **Others**：You may choose M/C：Metric（Meter and Celsius） Ft/F：Imperial（Feet and Fahrenheit） **Notes**: Change the settings will affect to all the related display, there has some tolerance because of the transform calculations.
	**Description**： Power management - auto screen off. **Enter**：From the Menu -> Setting -> Select Power. **Others**：In the selected time, under the watch mode, the screen will be off automatically, you may wake up the screen by rotate the device or press any keys. **Notes**: Auto Screen off is only apply to the watch mode.
	**Description**： Buzzer beeping setting **Enter**：From the Menu -> Setting -> Select BUZZER. **Others**：ON / OFF **Notes**: If you change to the BUZZER off, there won't be any beeping even your other preset is on.

1.8 Settings

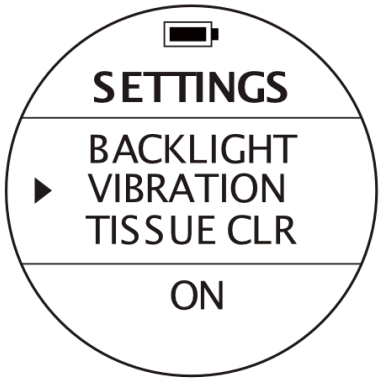


Description： Back Light setting

Enter：From the Menu -> Setting -> Select BACKLIGHT.

Others：There are 3 levels of the brightness, 25, 50, 75, means the LED power consumption percentage. Higher number means brighter backlight, which is use more battery power.

Notes: Any change will affect the running time of the device.



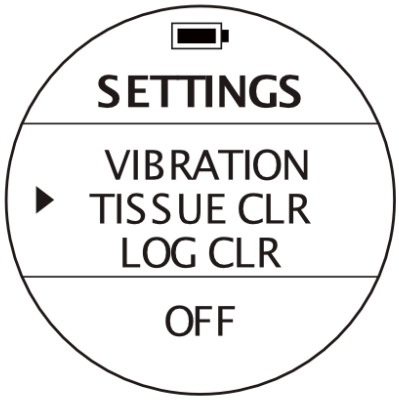
Description： Vibration setting

Enter：From the Menu -> Setting -> Select VIBRATION.

Others：ON / OFF

Notes: If you change to the VIBRATION off, there won't be any vibration even your other preset is on.

1.8 Settings



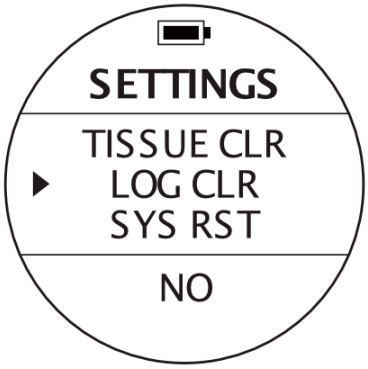
Description： Clean Tissues - Clear the residual nitrogen calculation from the device.

Enter：From the Menu -> Setting -> Select TISSUE CLR.

Others：ON / OFF

WARNIMG：

1. DO NOT use this function unless you FULLY UNDERSTAND the decompression theory and aware the consequence of cleaning the residual nitrogen.
2. This function is mainly for those instructors need to use one device for different customers or students. PLEASE DO NOT use this function if you are not an instructor or the device is only used by you.
3. If you are an instructor and meed to rent the device to different students or customer, please make sure they DON'T have diving activities 72 hours previously.
4. Your safety is your own risks, please DO NOT change this settings if you DO NOT 100% understand the related knowledge and realize what is going to be changed if change the setting.



Description： Clean Dive Logs.

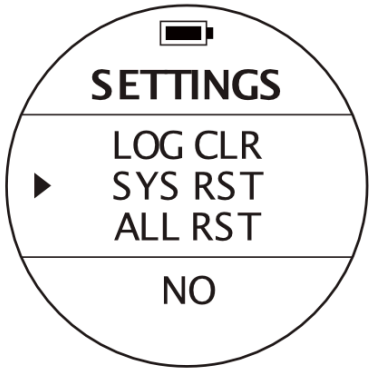
Enter：From the Menu -> Setting -> Select LOG CLR.

Others：ON / OFF

Notice：

1. By cleaning and format the memory, all the logs will be deleted permanent, there is no way to restore or recovery.
2. Clear logs won't affect any settings and residual nitrogen.

1.8 Settings

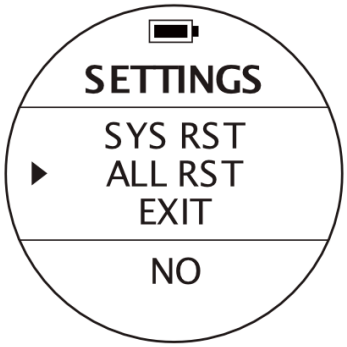


Description： Reset to factory setting.

Enter：From the Menu -> Setting -> Select SYS RST.

Others：ON / OFF

Notice：
1. By restore all the settings to the factory reset.
2. All the custom settings will be lost, but residual nitrogen and logs won't be affected.



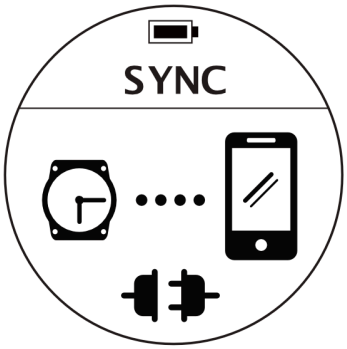
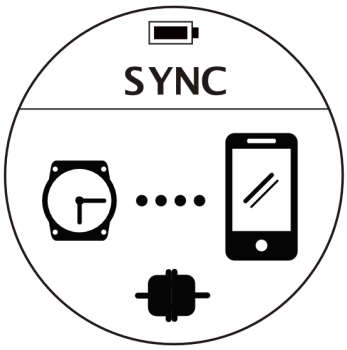
Description： Reset All.

Enter：From the Menu -> Setting -> Select ALL RST.

Others：ON / OFF

Notice：
1. By restore all the settings to the factory reset and format the storage and clear all the memory.
2. All the custom settings will be lost, including residual nitrogen and all the logs.
3. By cleaning and format the memory, all the logs will be deleted permanent, there is no way to restore or recovery.

1.9 AUTO Mode

1.9 AUTO Mode	
	**Description**： Waiting for connection. **Enter**：From the Menu -> SYNC **Notice**： 1. You may enter the sync mode first and operate the rest process. 2. It will automatically back to the watch mode if there's no connection in few minutes.
	**Description**： Connected. **Enter**：From the Menu -> SYNC **Notice**： 1. You may exit any APP that connect to the the computer, once no any other devices connected, it'll back to the waiting status.

2. Deep 6 Gear Contact information

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