AQUA LUNG®

i770R

Dive Computer Owner's Manual

Doc. 12-7892-r01 (4/24/18)

NOTICES

LIMITED TWO-YEAR WARRANTY

For warranty details and to register your product, refer to www.aqualung.com.

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i770R Dive Computer Owner's Manual, Doc. No. 12-7892
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Vista, CA USA 92081

TRADEMARK, TRADE NAME, AND SERVICE MARK NOTICE

PATENT NOTICE

U.S. Patents have been issued to protect the following design features: Free dive mode caculating nitrogen loading (U.S. Patent no. 8,600,701 & 9,254,900 & 9,733,227), Systems and Methods for Dive Computers with Remote Upload Capabilities (U.S. Patent no. 9,443,039), Dive Computer with Free Dive Mode and/or Wireless Data Transmission (U.S. Patent no. 7,797,124).

DECOMPRESSION MODEL

The program within the i770R simulates the absorption of inert gases into the body by using a mathematical model. This model is merely a way to apply a limited set of data to a large range of experiences. The i770R dive computer model is based upon the latest research and experiments in decompression theory. Still, using the i770R, just as using any other No Decompression Tables, is no guarantee of avoiding decompression sickness, i.e. “the bends”. Every diver’s physiology is different, and can even vary from day to day. No machine can predict how your body will react to a particular dive profile.

DANGERS, WARNINGS, CAUTIONS, AND NOTES

Pay attention to the following symbols when they appear throughout this document. They denote important information and tips.

DANGERS: are indicators of important information that if ignored **would** lead to severe injury or death.

WARNINGS: are indicators of important information that if ignored **could** lead to severe injury or death.

CAUTIONS: indicate information that will help you avoid faulty assembly, leading to an unsafe condition.

NOTES: indicate tips and advice that can inform of features, aid assembly, or prevent damage to the product.

RESPONSIBLE COMPUTER DIVING

- Always plan each dive.
- Always limit your dive to the level of your training and experience.
- Always make your deepest dive first.
- Always make the deepest part of every dive first.
- Check your computer often during the dive.
- Do a safety stop on every dive.
- Allow adequate surface interval between each dive.
- Allow adequate surface interval between each day of diving (12 Hours or until your computer clears).
- Read and understand this manual thoroughly before using the i770R.

⚠ WARNINGS:

- **This manual is to be used in conjunction with the Aqua Lung Dive Computer Safety and Reference Manual, Doc. 12-7835.**
- **The i770R is intended for use by recreational divers who have successfully completed a internationally recognized course in scuba diving (for air use) and diving with enriched nitrogen-oxygen (nitrox) breathing gas mixtures (for nitrox use).**
- **It must not be used by untrained persons who may not have knowledge of the potential risks and hazards of scuba diving and diving with enriched nitrogen-oxygen (nitrox) mixtures.**
- **You must obtain scuba certification in diving with enriched nitrogen-oxygen mixtures (nitrox) before using the i770R for nitrox diving.**
- **This product is not specifically designed for compatibility with military, hazmat, nuclear plant, heavy industrial, extreme depth exceeding 100 m/330 ft, or similar extreme applications. Neither Aqua Lung International or Pelagic make any guarantees to the suitability of this product for such applications. Use in such applications may void your warranty or put your safety at risk.**
- **As with all underwater life support equipment, improper use or misuse of this product can cause serious injury or death.**
- **Never participate in sharing or swapping of a dive computer.**
- **Conduct your dives in such a manner so as to insure that you continuously check the computer's proper function.**
- **Read and understand this owner's manual completely before diving with the i770R.**
- **If you do not fully understand how to use this dive computer or if you have any questions, you should seek instruction in its use from your authorized Aqua Lung dealer before you utilize this product.**
- **If your i770R stops working for any reason while operating, it is important that you have anticipated this possibility and are prepared for it. This is an important reason for not pushing the tables, oxygen exposure limits, or entering decompression without proper training. If you dive in situations where your trip would be ruined or your safety would be jeopardized by losing the use of your i770R, a backup instrument system is highly recommended.**
- **Each numeric and graphic display represents a unique piece of information. It is imperative that you understand the formats, ranges, and values of the information represented to avoid any possible misunderstanding that could result in error.**
- **Remember that technology is no substitute for common sense. The dive computer only provides the person using it with data, not the knowledge to use it. Remember also that the dive computer does not actually measure and test the composition of your body tissue and blood. Using an Aqua Lung dive computer, just as using any other Decompression Tables, is no guarantee of avoiding decompression sickness. Every diver's physiology is different and can even vary from day to day. No machine can predict how your body will react to a particular dive profile.**
- **Diving at high altitude requires special knowledge of the variations imposed upon divers, their activities, and their equipment by the decrease in atmospheric pressures. Aqua Lung recommends completion of a specialized altitude training course by a recognized training agency prior to diving in high altitude lakes or rivers.**
- **Repetitive dives in a series should only be conducted at the same altitude as that of the first dive of that series. Repetitive dives made at a different altitude will result in an error equal to the difference in barometric pressure, and possibly a false dive mode with erroneous data.**
- **If the i770R is activated at an elevation higher than 4,270 m (14,000 ft), it will immediately shutdown.**
- **Decompression diving or diving deeper than 39 m (130 ft) will greatly increase your risk of decompression sickness. This should only be attempted by those properly trained and certified in decompression diving. It is important to completely understand the features, functions, and specifically the limitations of the i770R. Based on this the diver must decide if the i770R is suitable for the dive activities and dive profiles being planned.**
- **Using an i770R is no guarantee of avoiding decompression sickness.**
- **The i770R enters Violation Mode when a situation exceeds its capacity to predict an ascent procedure. These dives represent gross excursions into decompression that are beyond the boundaries and spirit of the i770R's design. If you are following these dive profiles, Aqua Lung advises that you should not use an i770R.**

- **If you exceed certain limits, the i770R will not be able to help you get safely back to the surface. These situations exceed tested limits and can result in loss of some functions for 24 hours after the dive in which a violation occurred.**
- **If you exceed certain limits, the i770R will not be able to help you get safely back to the surface. These situations exceed tested limits and can result in loss of some functions for 24 hours after the dive in which a violation occurred.**

CONTENTS

NOTICES 2
RESPONSIBLE COMPUTER DIVING 2
WARNINGS: 3

GETTING STARTED 7
BASICS 8
POWER 8
CHARGING THE BATTERY 8
ACTIVATION 9
DISPLAY ICONS 10
BUTTONS 11
BUTTON FUNCTIONS 12

HOME MENU 14
HOME MENU 15
MY INFO 15
DC (DIVE COMPUTER) INFO 16
SETUP MENU 16
1. DISPLAY 17
A. Brightness 17
B. Auto Dim 18
C. Add PO2/MOD 18
2. DATE-TIME 19
A. Date Format 19
B. Date 20
C. Time Format 20
D. Time 21
3. LANGUAGE 21
4. BLUETOOTH 22
MODE 23
HISTORY 23
LOG 24

DIVE FEATURES 27
DTR (DIVE TIME REMAINING) 28
NO DECOMPRESSION 28
O2 TIME (OXYGEN TIME REMAINING) 28
BAR GRAPHS 29
ASC BAR GRAPH 29
N2 BAR GRAPH 29
ALGORITHM 29
CONSERVATIVE FACTOR 29
DEEP STOP 29
SAFETY STOP 30
LOW BATTERY WHILE ON THE SURFACE 30
LOW BATTERY DURING A DIVE 31
LOW TMT (TRANSMITTER) BATTERY 32
AUDIBLE ALARM 33
PROXIMITY OF THE TRANSMITTERS AND i770R 34

DIVE SURFACE MODE 35
ON THE SURFACE BEFORE A DIVE 36
LAST DIVE DATA 37
MORE DATA 37
DIVE MAIN MENU 38
TRANSMITTERS 39
SET ALARMS 41
SET UTILITIES 45
1. WATER TYPE 45
2. UNITS 46
3. SAMPLE RATE 47
4. DEEP STOP 48
5. SAFETY STOP 48
6. CONSERVATIVE 49
PLAN 50
SET GAS 51

DIVE OPERATION 53
INITIATING A DIVE 54
NO DECOMPRESSION DIVE MAIN 54
MORE DIVE DATA 55
EARMARK 55
DIVE MENU 55
1. GAS (& TRANSMITTER) SWITCH 56
2. DISPLAY 57
3. DS (DEEP STOP) PREVIEW 58
DEEP STOP MAIN 58
SAFETY STOP MAIN 58
SURFACING 59
COMPLICATIONS 60
DECOMPRESSION 60
DECOMPRESSION ENTRY 60
GAS SWITCH WARNING 60
DECOMPRESSION STOP MAIN 61
CONDITIONAL VIOLATION (CV) 61
DELAYED VIOLATION 1 (DV 1) 62
DELAYED VIOLATION 2 (DV 2) 62
DELAYED VIOLATION 3 (DV 3) 63
VIOLATION GAUGE MODE DURING A DIVE 63
VIOLATION GAUGE MODE ON THE SURFACE 63
HIGH PO_2 64
Alarm 64
PO_2 During Decompression 64
HIGH O2 SAT (OXYGEN SATURATION) 64
Warning 64
Alarm 65
Warning During Decompression 65
Alarm During Decompression 65
Alarm On Surface 66

GAUGE MODE 67
ON THE SURFACE BEFORE A DIVE 68
GAUGE SURF MAIN MENU 69
INITIATING A DIVE 70
GAUGE DIVE MAIN 70
GAUGE MORE DIVE DATA 71
RUN TIMER 71

Doc. 12-7892-r01 (4/24/18)

GAUGE DIVE MENU 71
DELAYED VIOLATION 3 (DV3) 72

FREE MODE 73
FREE DIVE MODE DETAILS 74
ON THE SURFACE BEFORE A DIVE 75
FREE SURF MAIN MENU 76
CDT (COUNTDOWN TIMER) SETUP 77
SET MENU 78
1. WATER TYPE 78
2. UNITS 79
3. RTI AL (Repeating Time Interval Alarm) 79
4. DEPTH AL (Alarm) 80
INITIATING A DIVE 81
FREE DIVE MAIN 81
MORE DIVE DATA 82
N2 (NITROGEN) WARNING 82
FREE VIOLATION ALARM 82

COMPASS MODE 83
COMPASS DISPLAY ICONS 84
OVERVIEW 85
COMPASS MAIN MENU 86
CALIBRATE 87
SET DECLINATION 88
SET REFERENCE HEADING 89
EARMARK 90
ALARMS 90
COMPASS ON MAIN SCREEN 90

REFERENCE 91
UPLOADING/DOWNLOADING 92
CARE AND CLEANING 92
SERVICE 93
CHANGING THE STRAPS 94

TECHNICAL DATA 97
NO DECOMPRESSION TIME LIMITS 98
OXYGEN EXPOSURE LIMITS 99
ALTITUDE LEVELS 99
SPECIFICATIONS 100
ABBREVIATIONS/TERMS 103
EUROPEAN UNION DIRECTIVES 103
AQUA LUNG DISTRIBUTORS 104

Doc. 12-7892-r01 (4/24/18)

GETTING STARTED

BASICS

Welcome to your new i770R. The i770R is an easy to use dive computer utilizing a three button interface. Divers may choose between three modes of functionality consisting of Dive, Gauge, and Free Mode. Though the i770R is easy to use, you will get the most out of your new i770R if you take some time to familiarize yourself with its displays and operation. Information has been organized into easy to follow sections to aid you in learning all you need to know. There is also a glossary at the end of this guide for any terms that may sound unfamiliar.

POWER

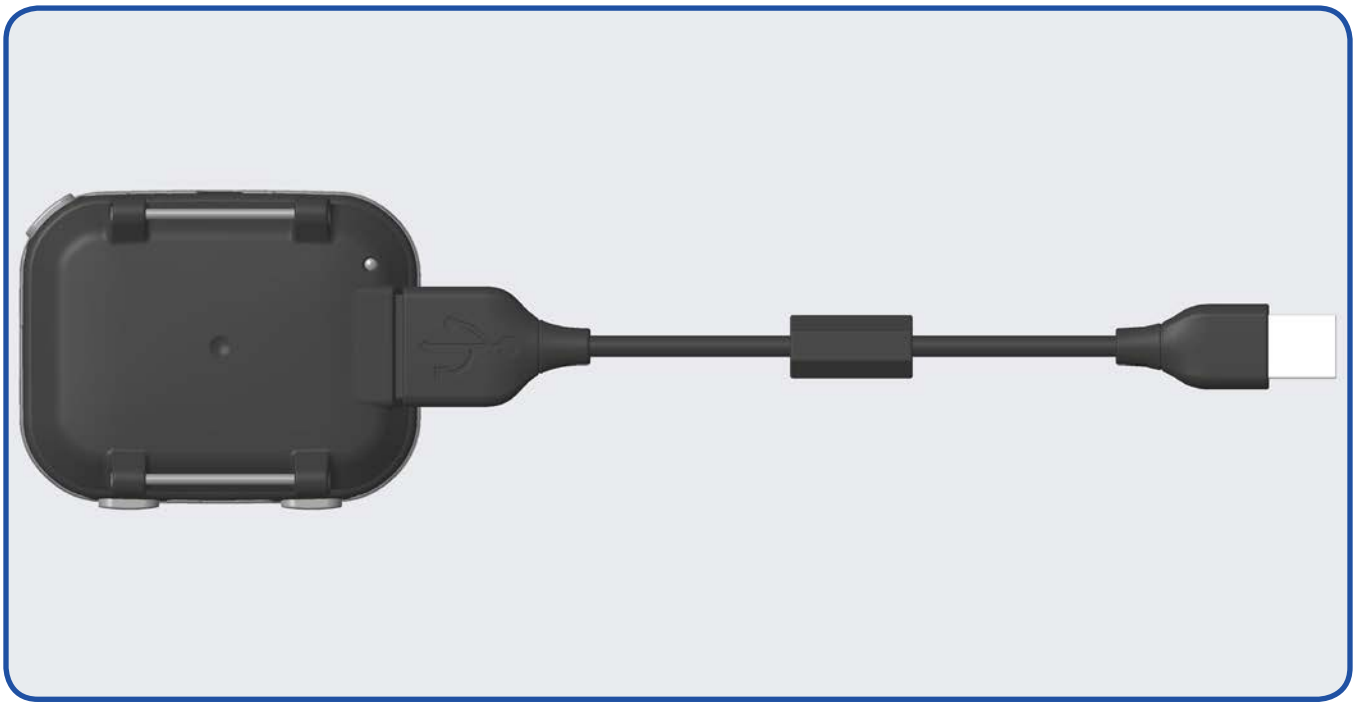
The i770R housing contains a rechargeable lithium battery similar to that of a cell phone. The level of battery charge is displayed on the primary screens. Charge the battery fully before first use. With a full charge you can expect to average 30 dive hours at 100% brightness before needing to recharge.

Keep in mind that the i770R screen is the biggest draw of power. Using full brightness settings will reduce the interval between charges. This setting can be fully customized to your preferences in the i770R settings. Additionally, the i770R screen will sleep after 10 minutes of inactivity to conserve power. Pressing any button will wake the screen up again.

CHARGING THE BATTERY

Use only the included Aqua Lung cable to charge the battery. This process will take an average of 1.5 -2 hours with a wall charger and 3 - 4 hours charging from a personal computer's USB port.

NOTE: It is recommended that you charge your i770R before any extended storage to avoid loss of battery performance or shortened battery life.



Doc. 12-7892-r01 (4/24/18)

ACTIVATION

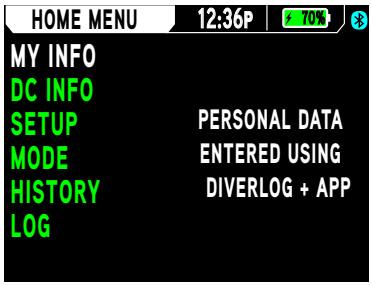
To activate the i770R, press and release any button. The i770R will also turn on if its metal contacts become wet and you descend below 1.5 m (5 ft) for 5 seconds.

- Upon activation, the unit will display the Activation screen and perform a diagnostic check. The i770R checks the display and voltage at this time to ensure that everything is within tolerance.
- It will also check ambient barometric pressure, and calibrate present depth as 0 m (ft). When at 916 m (3001 ft), or higher, it will adjust for the higher altitude.
- After the Diagnostic check, the i770R will display the Home Menu (or Dive Main if wet activation).

NOTE: The i770R has no off button or command. If no buttons are pressed or dives made, the unit will enter Sleep Mode after 10 minutes. Within 2 hours of no buttons being pressed or dives made, the unit will shut itself off. However, the i770R will stay on for a 24 hour period after a dive, counting down FLY (time to fly) and DESAT (desaturation time) if a dive has been made.

ACTIVATION SCREEN

HOME MENU SCREEN



Doc. 12-7892-r01 (4/24/18)

DISPLAY ICONS

SYMBOL	MEANING
M or FT	DEPTH (METERS OR FEET)
NO-DECO	NO DECOMPRESSION TIME (DIVE TIME REMAINING)
O2 TIME	O2 SATURATION TIME (DIVE TIME REMAINING)
DIVE-T	DIVE TIME
GAS 1	GAS/TRANSMITTER # (1, 2, OR 3)
GTR	GAS TIME REMAINING
BAR or PSI	VALUE IS GAS PRESSURE IN BAR OR PSI
FO2: AIR or FO2: 32%	GAS MIX (AIR OR 21 - 100%)
	BATTERY CONDITION IS GOOD (SURFACE ONLY)
	LOW BATTERY WARNING
	LOW BATTERY ALARM
SURF-T	SURFACE TIME
CDT	COUNTDOWN TIMER (FREE MODE)
RUNTIME	RUN TIMER (GAUGE MODE)
M MAX or FT MAX	MAXIMUM DEPTH (METERS OR FEET)

Doc. 12-7892-r01 (4/24/18)

BUTTONS

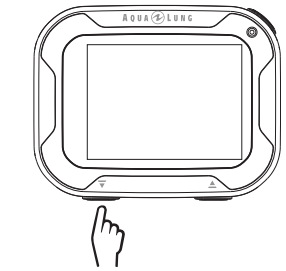
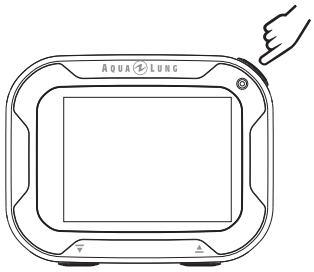
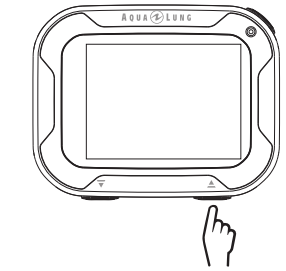
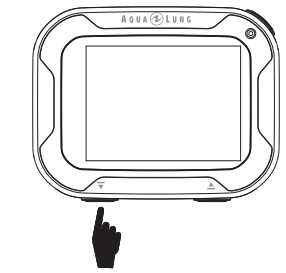
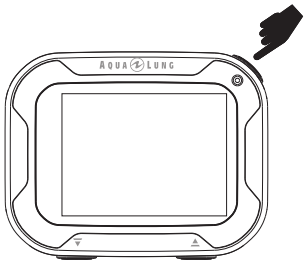
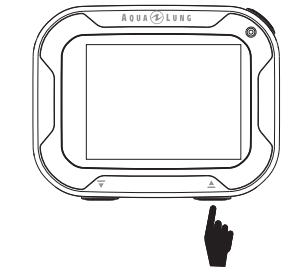
The i770R utilizes 3 control buttons called the ▼ (Down), ▲ (UP), and ◎ (Select) buttons. They allow you to select mode options and access specific information. They are also used to enter settings and acknowledge the audible alarm.

Pressing different combinations of these buttons will navigate through different menus and options of the i770R. The symbols in the table below will illustrate how to proceed through the menus.

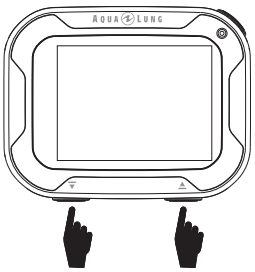
SYMBOL	MEANING
	**PRESS BUTTON LESS THAN 2 SECONDS**
	**HOLD BUTTON GREATER THAN 2 SECONDS**

Doc. 12-7892-r01 (4/24/18)

BUTTON FUNCTIONS

ACTION	FUNCTION
	• to access main menus from main screens • to step (scroll) down the screen • to decrease setting value • to toggle or change setpoints
	• to select, save an option or setting • to start/stop Run Timer (Gauge Mode), Countdown Timer (Free Mode), and Chrono (Compass Mode) • to acknowledge alarms
	• to access alternate (More Dive Data, Last Dive Data, and More Data) screens • to step (scroll) up the screen • to increase setting value • to toggle or change setpoints • to set a reference heading in Compass Mode
	• to exit a menu directly to the Main screen • to access Home Menu from Main screens • to apply an Earmark, during dives
	• to switch between Compass Mode and the active diving mode, while on the Main screen • to exit or step back to the previous screen or setting
	• to increase setting values at a faster rate • to add compass to the Main screen • to remove heading from the compass while in Compass Mode

Doc. 12-7892-r01 (4/24/18)

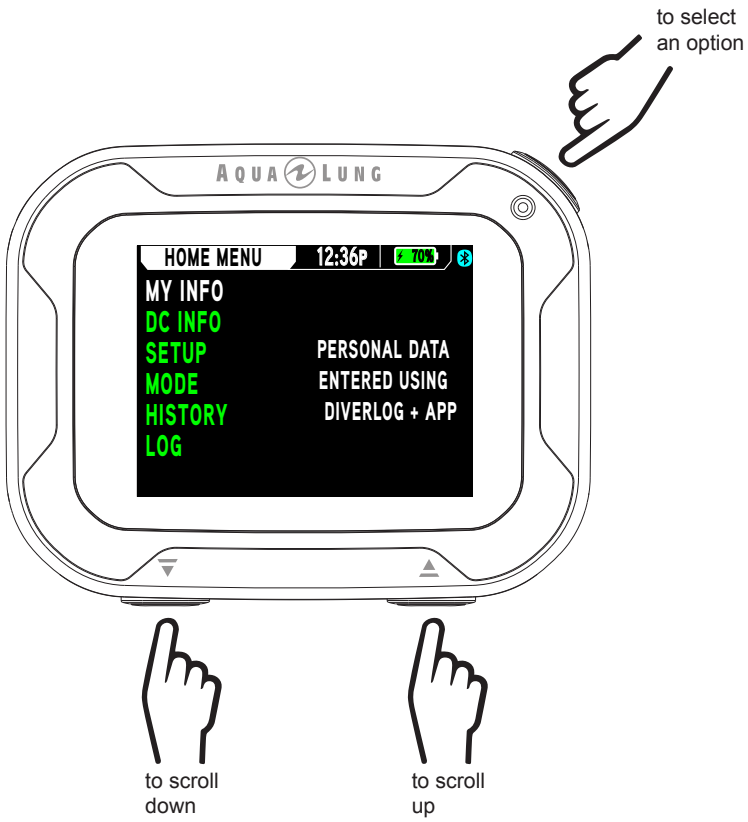
ACTION	FUNCTION
	• **to reset Run Timer (Gauge Mode) Countdown Timer (Free Mode), and Chrono (Compass Mode)**

Doc. 12-7892-r01 (4/24/18)

HOME MENU

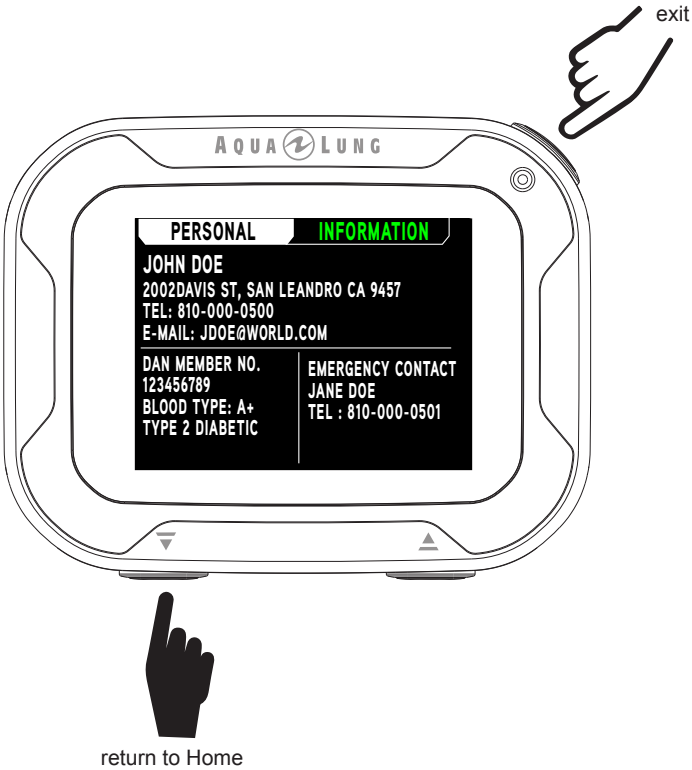
HOME MENU

This is a base menu that provides access to general items common to all the operating dive modes. When the i770R is activated manually, this is the first screen you will see after the Activation screen. When ready to dive, select Dive, Gauge, or Free Mode from the Mode Submenu.



MY INFO

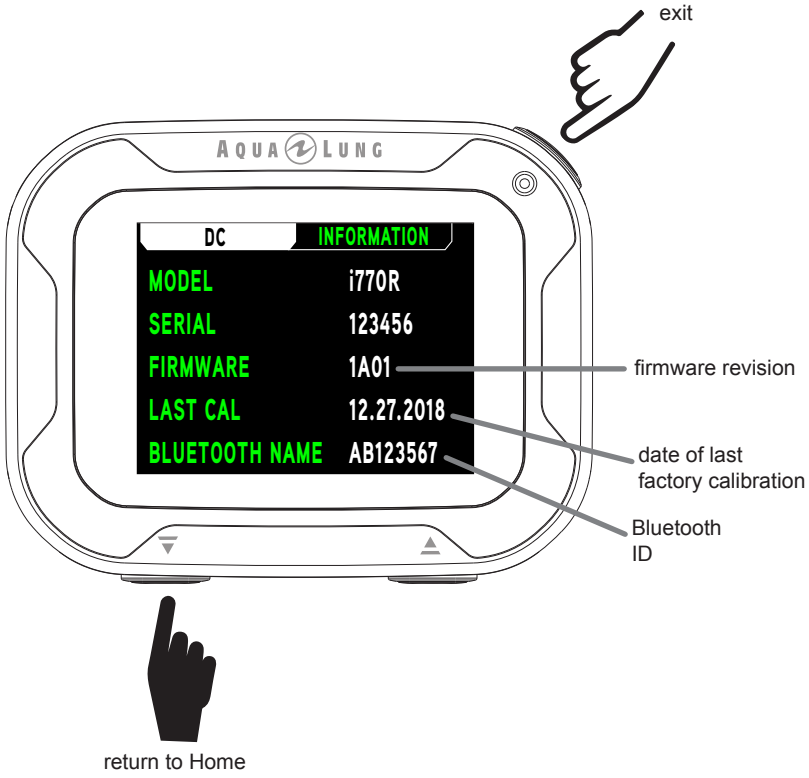
This screen displays personal information. Information must be entered using the Diverlog + application interface.



Doc. 12-7892-r01 (4/24/18)

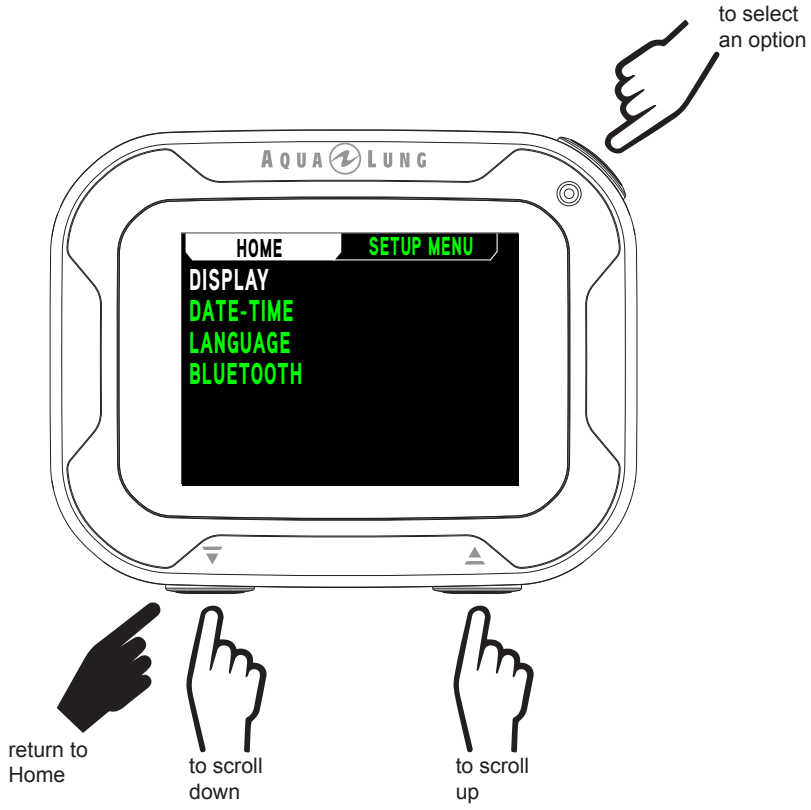
DC (DIVE COMPUTER) INFO

Information displayed on the DC Info screen should be recorded and kept with your sales receipt. It will be required in the event that your i770R requires factory service.



SETUP MENU

This screen allows you to adjust the Display, Date-Time, Language, and Bluetooth® features.



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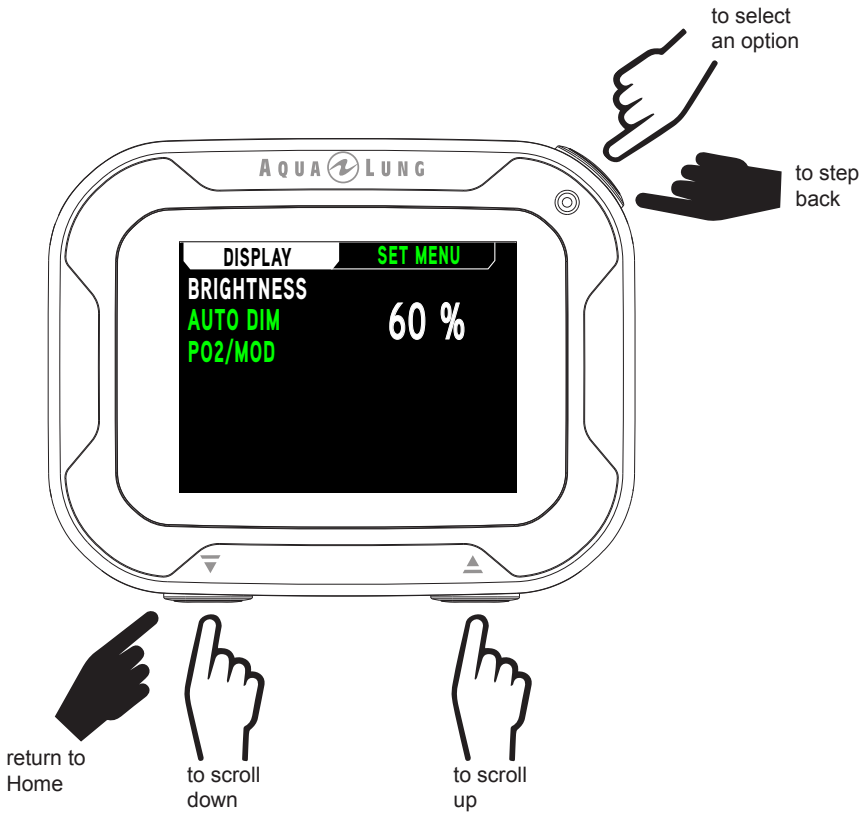
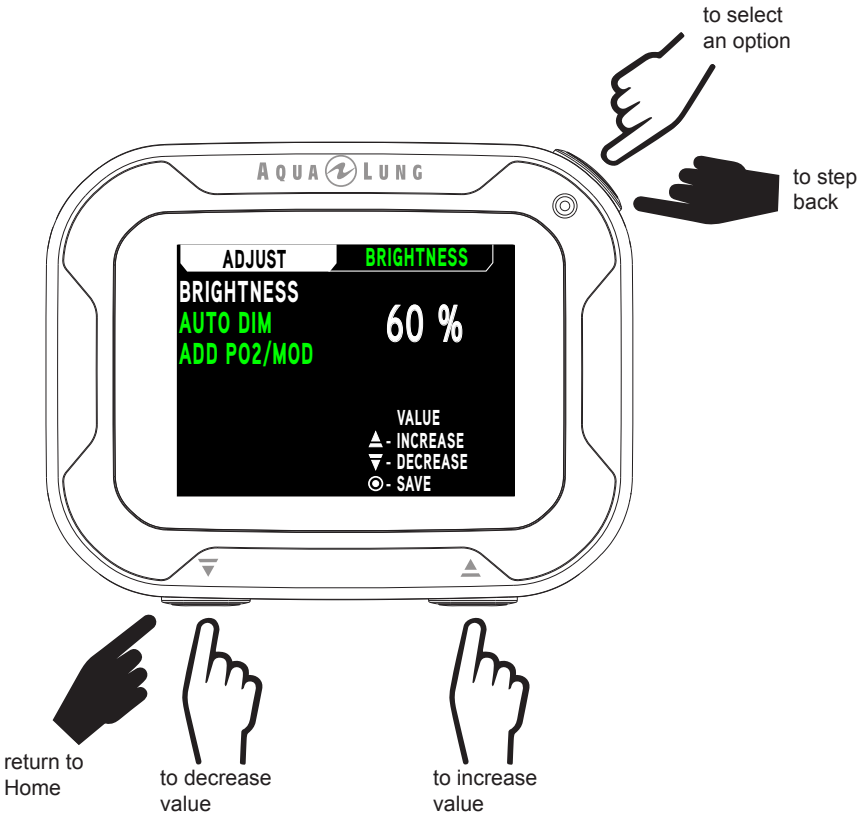
1. DISPLAY

This submenu allows you to adjust Brightness, Auto Dim, and Add PO2/MOD settings.



A. Brightness

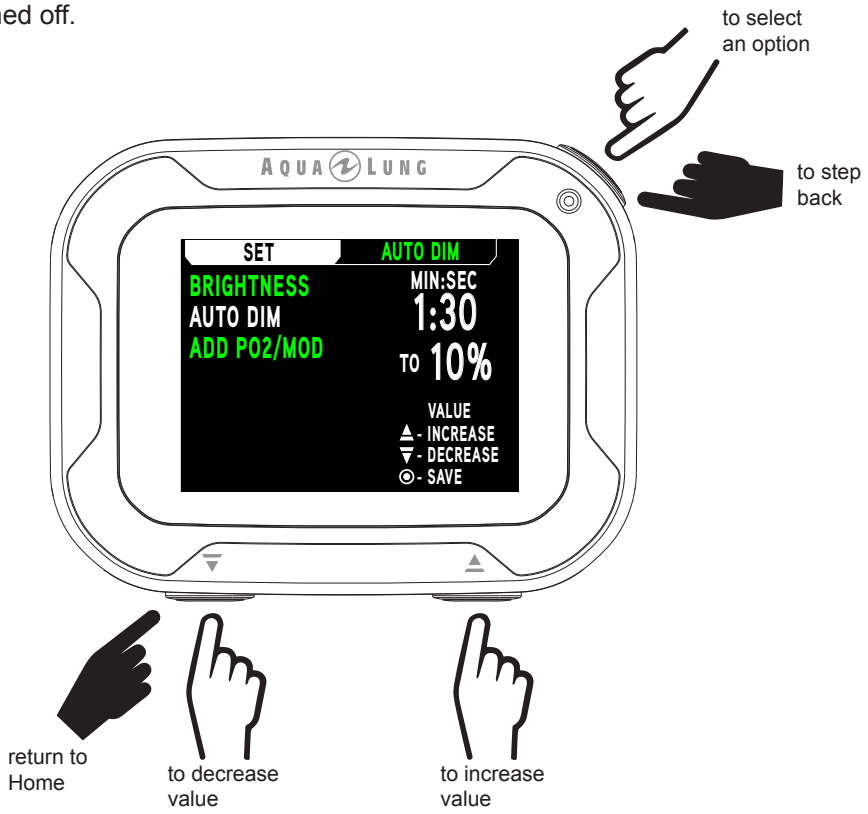
This submenu allows you to adjust the brightness of the screen.



Doc. 12-7892-r01 (4/24/18)

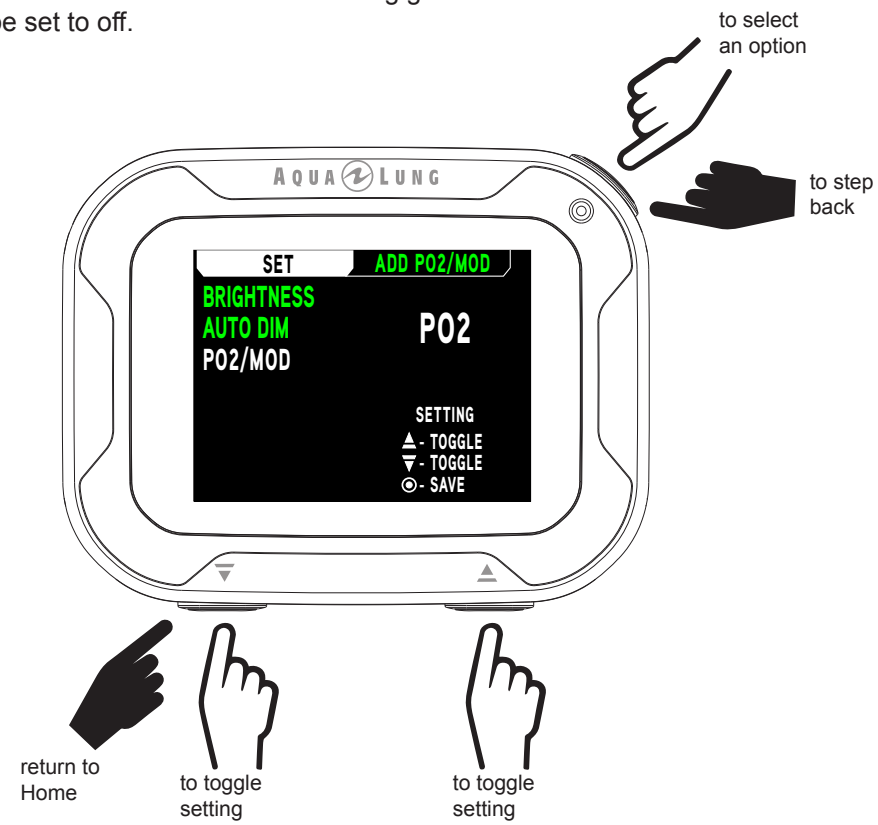
B. Auto Dim

While underwater the i770R screen dims after a set time interval from the last button press. This is done to reduce distractions during the dive and to conserve power. The i770R allows you to customize the time interval and degree of dimming. This feature may also be turned off.



C. Add PO2/MOD

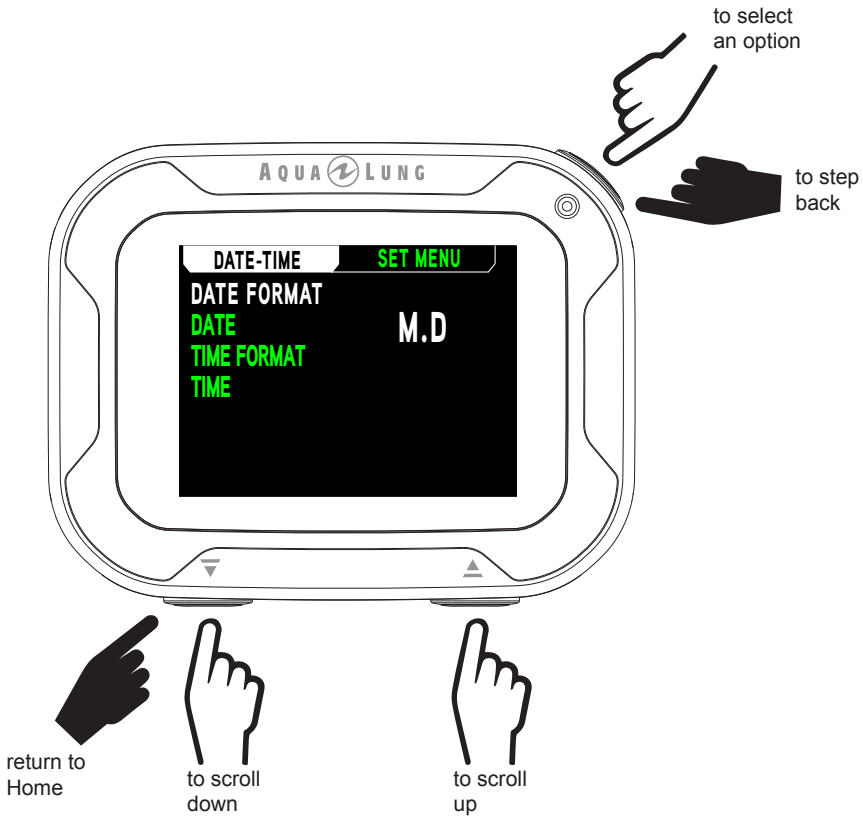
This feature allows you to choose whether to display the MOD (Maximum Operating Depth) or current PO2 value of the breathing gas on the Dive Main screen. This feature may also be set to off.



Doc. 12-7892-r01 (4/24/18)

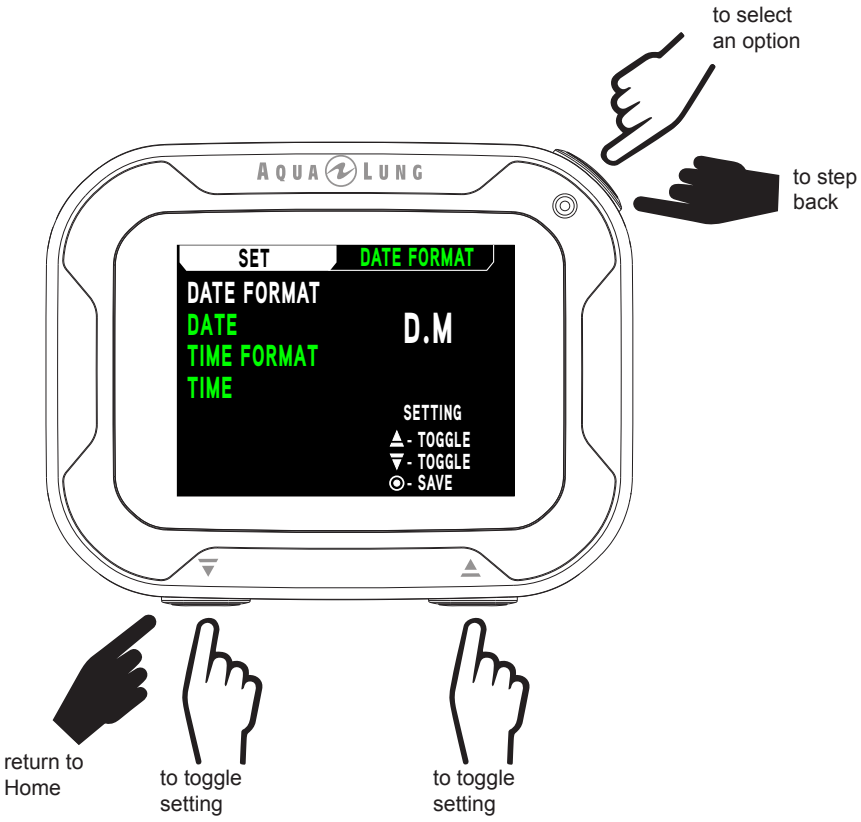
2. DATE-TIME

Within this menu you can set the time formats, date, and time of day.



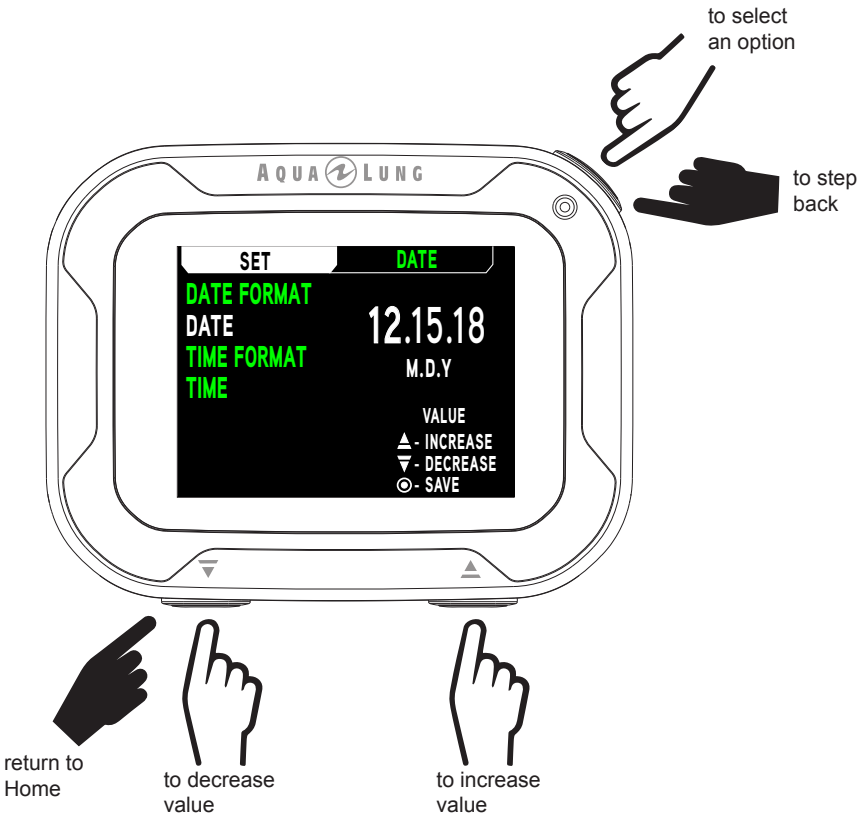
A. Date Format

You can choose between D.M (Day.Month) and M.D (Month.Day).



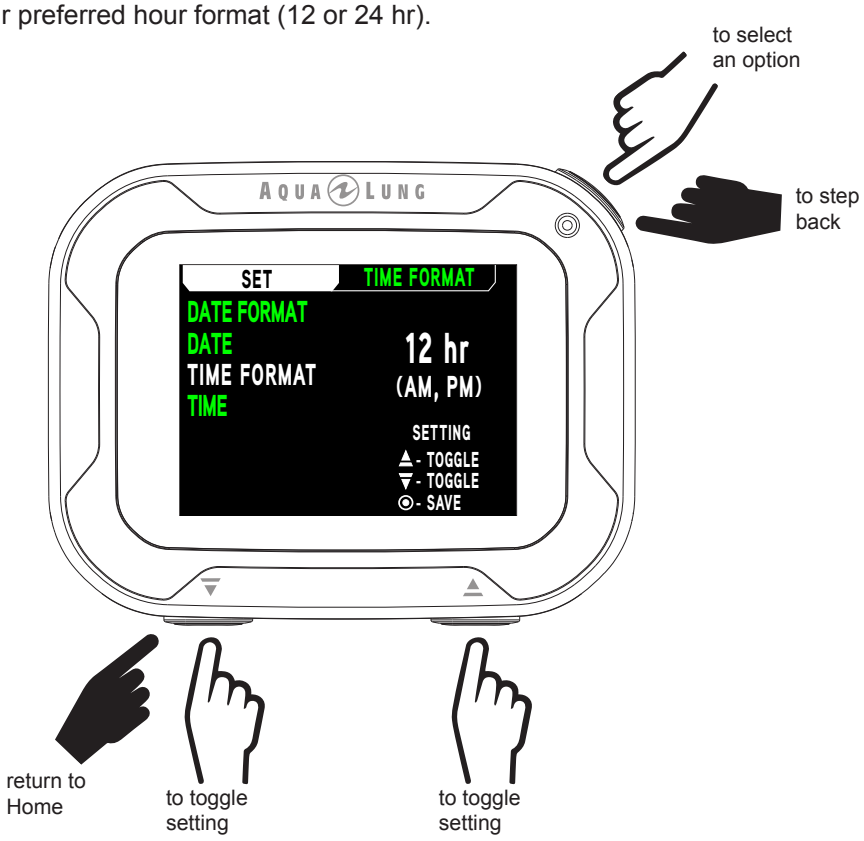
B. Date

Set the year, month, and day in order. The corresponding digit will flash, allowing it to be set.



C. Time Format

Choose your preferred hour format (12 or 24 hr).



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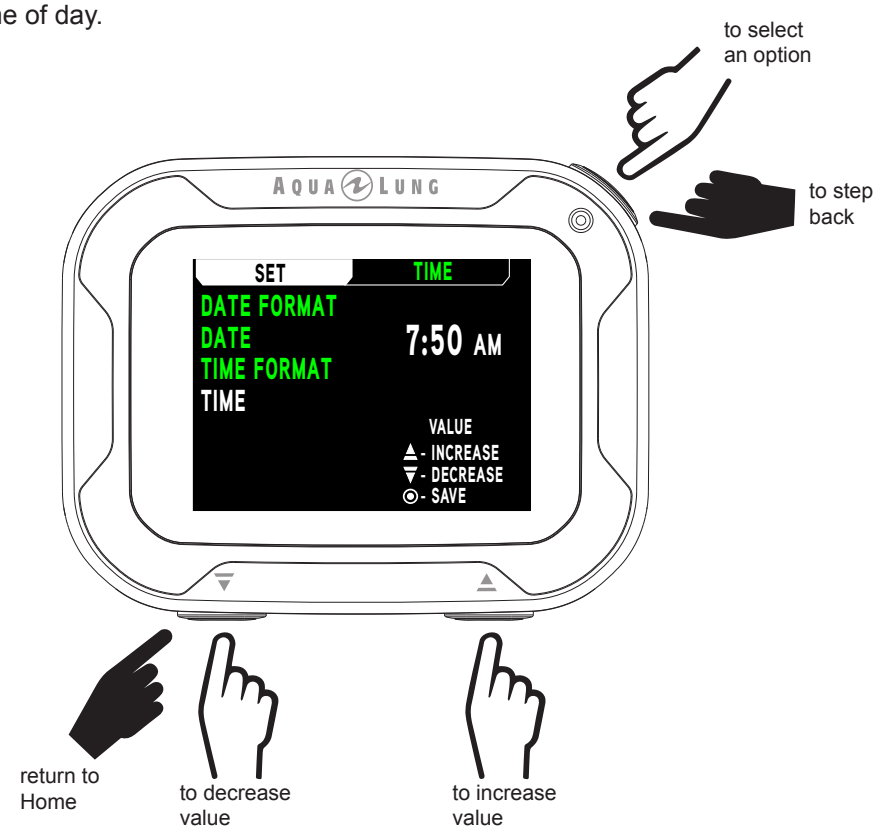
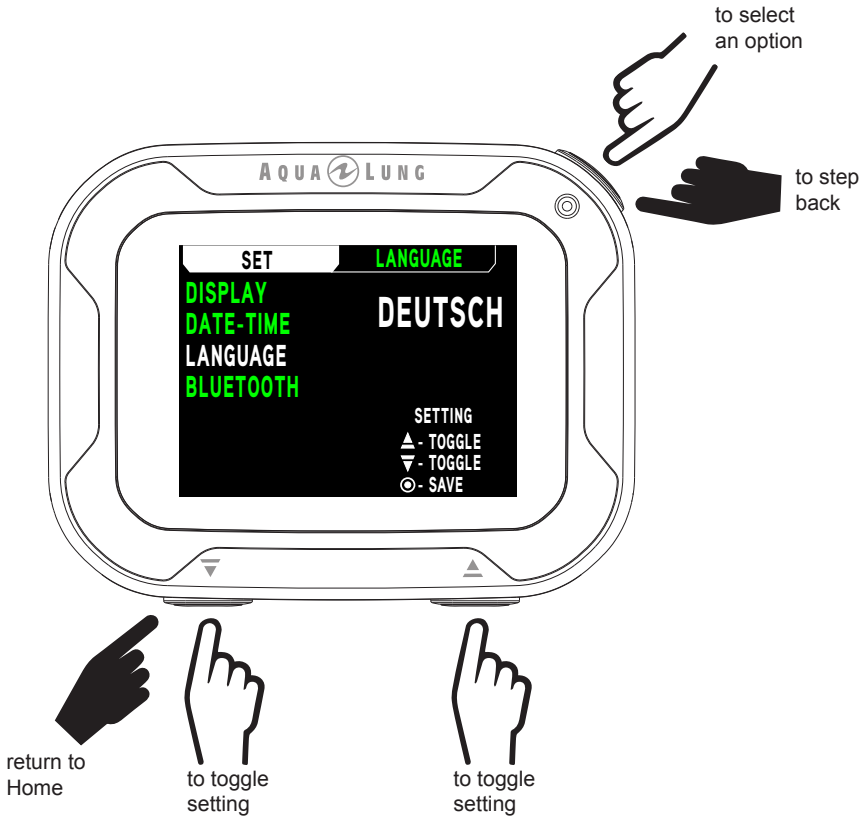
D. Time

Set the time of day.



3. LANGUAGE

Within this menu you can choose a different language mode.

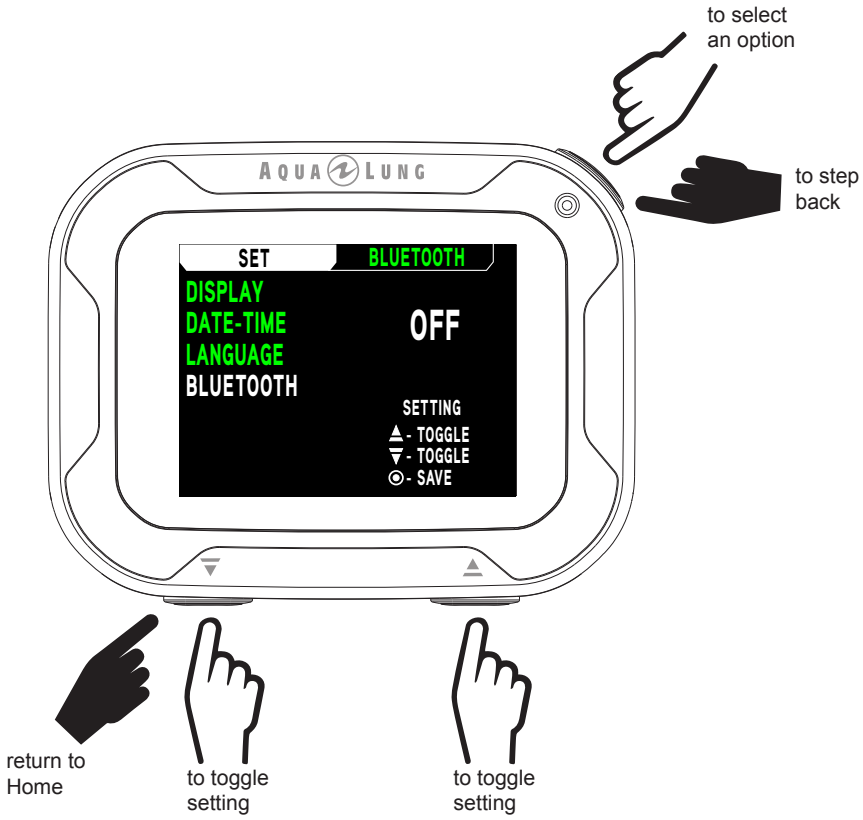


Doc. 12-7892-r01 (4/24/18)

4. BLUETOOTH

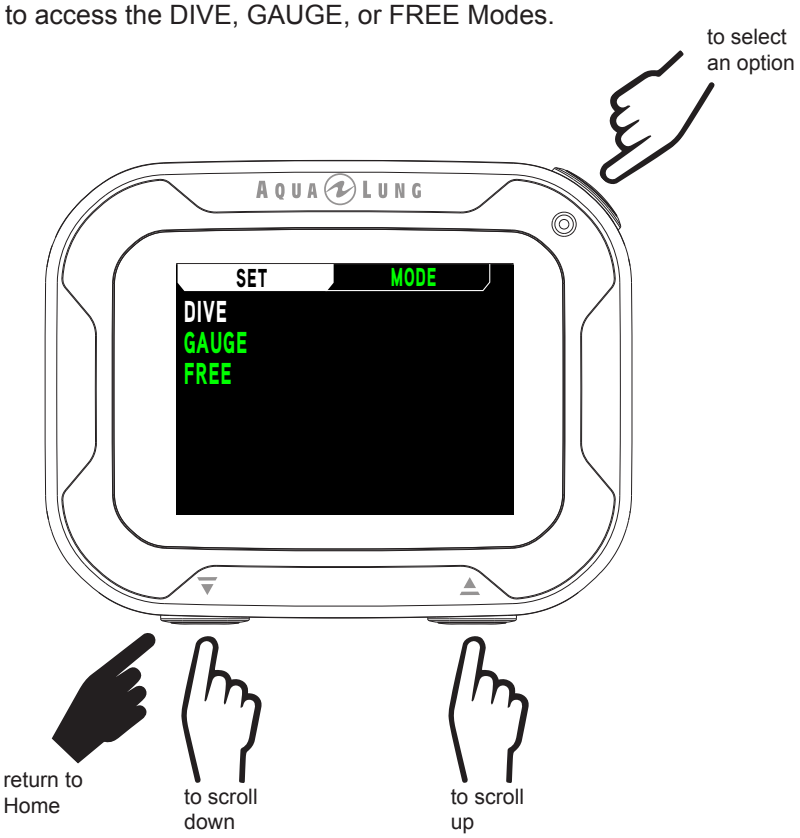
Within this screen the Bluetooth® may be turned ON or OFF. When Bluetooth® is turned on it will operate in sniffing mode (searching for compatible devices) while on the surface. Comunication with your i770R must be initiated with your mobile device using the DiverLog+ Application.

NOTE: When Bluetooth® is ON the Bluetooth® icon will be displayed when on the surface with the screen activated. Bluetooth® is temporarily deactivated when the i770R enters Sleep Mode (screen is turned off) or a dive is started. The i770R returns to "sniffing" mode when the i770R returns to Surface Mode after a dive or a button is pushed to wake the computer from Sleep Mode on the surface. You will notice the Bluetooth® icon flashing as the Bluetooth® function is reinitiating.



MODE

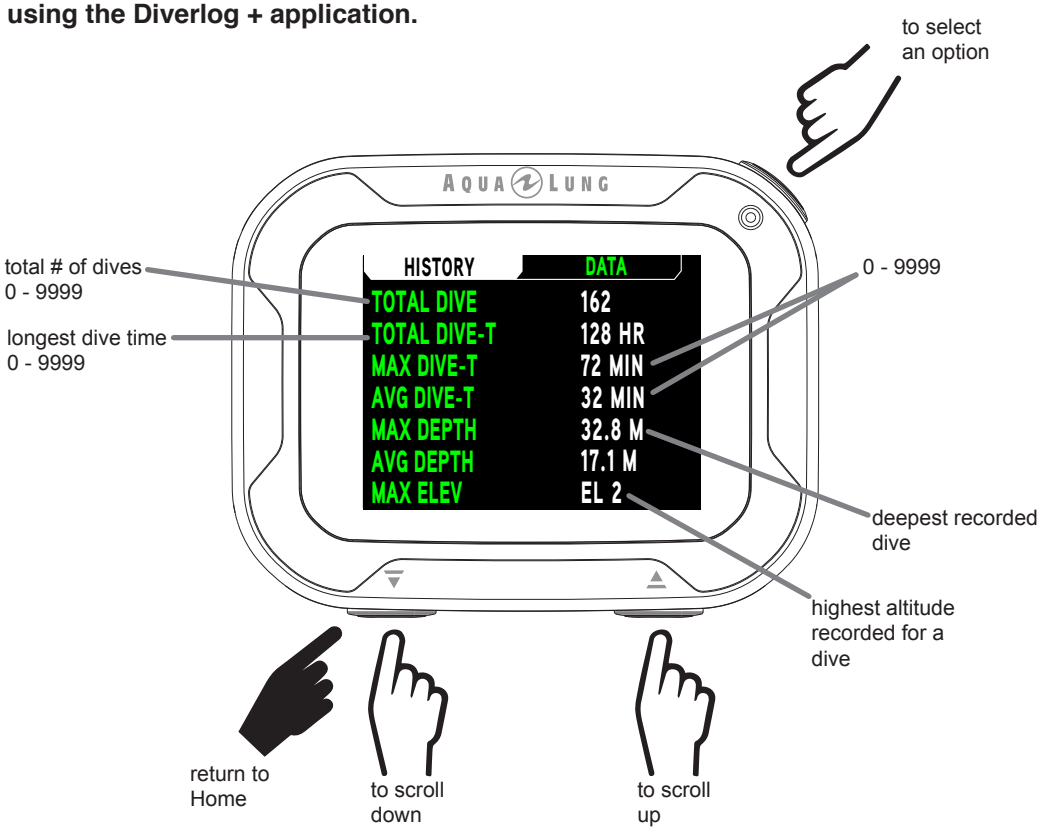
This screen allows you to access the DIVE, GAUGE, or FREE Modes.



HISTORY

History is a summary of basic data recorded during all DIVE and GAUGE dives.

NOTE: Dives made in Free Mode are not shown in History or the Log Mode. Free dive data is only visible using the Diverlog + application.

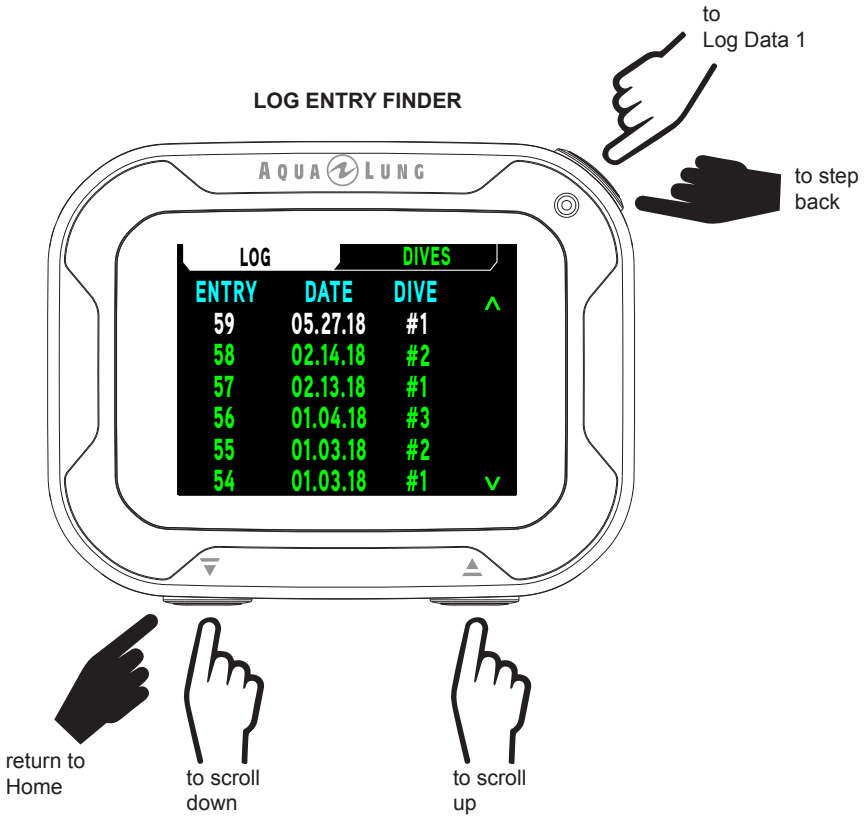


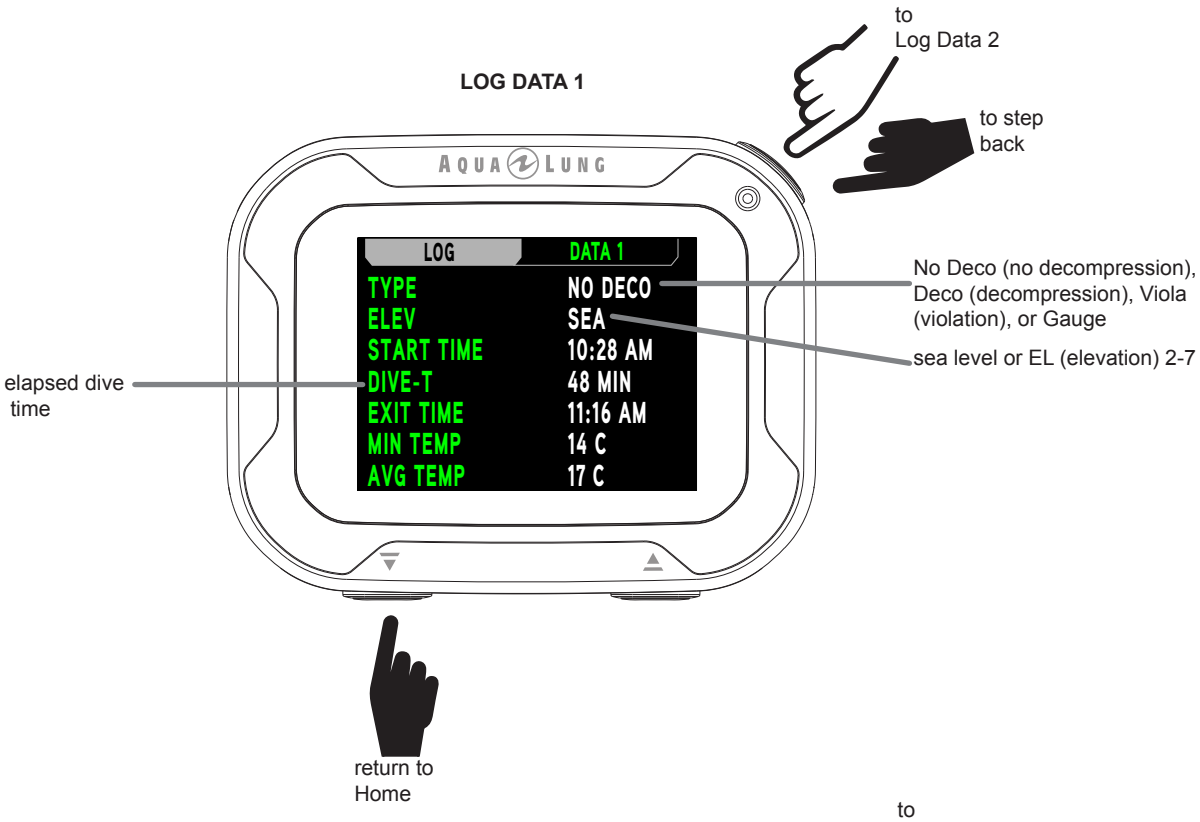
LOG

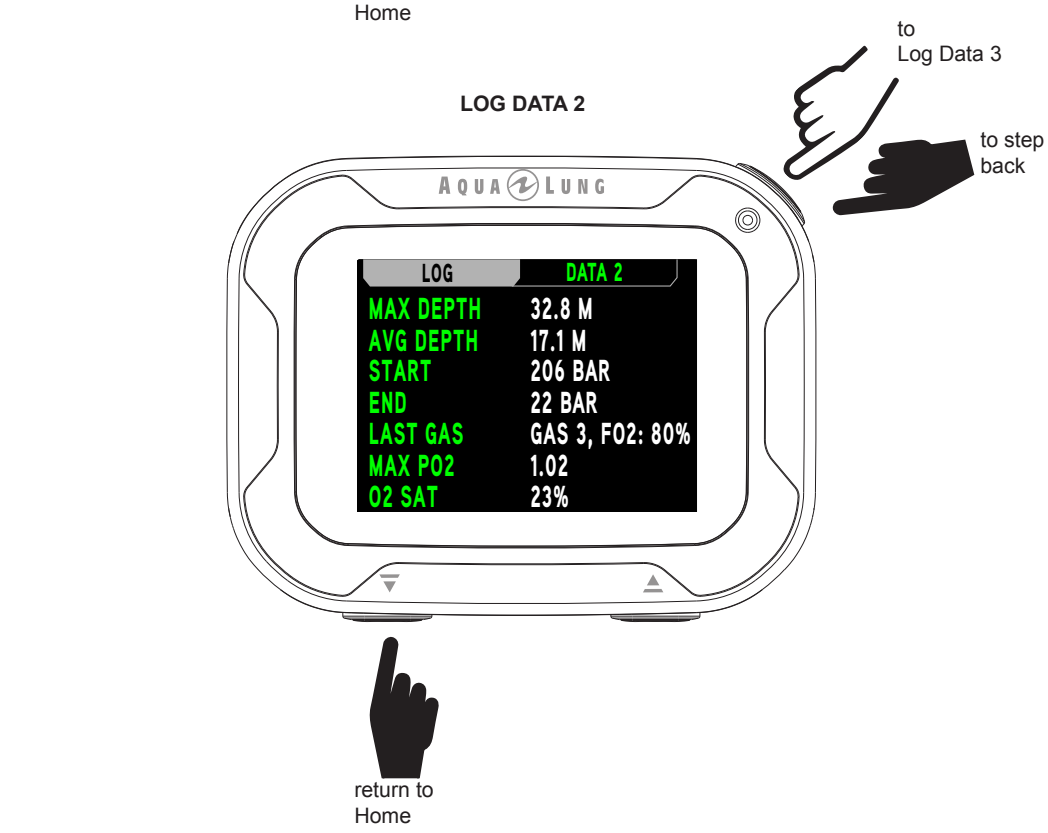
The log stores Information from DIVE and/or GAUGE Mode dives for viewing.

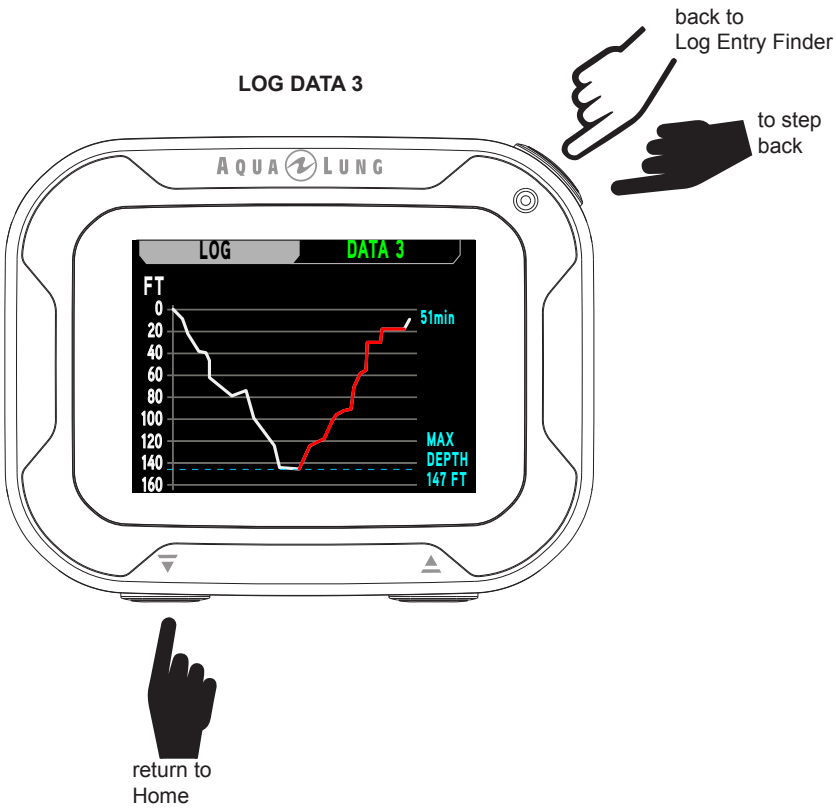
- If no dives are recorded, the message NO DIVES RECORDED YET will be displayed.
- There is a maximum of 99 entries overall. After exceeding 99 entries, the oldest entries will be deleted to allow space for the new entries.
- Dives per operation cycle will be designated DIVE 1 through 24.
- Dives are numbered starting with 1 each time DIVE (or GAUGE) Mode is activated. After 24 hours elapse with no dive, the first dive of the next period of operation is called Dive #1.
- In the event that dive time (DIVE-T) exceeds 999 min, the data at the 999 interval is recorded in the Log upon surfacing of the unit.

NOTE: New data will automatically overwrite the oldest data in memory when the memory becomes full. If you do not remember to log or download your dives, they will be lost when the memory overwrites. See the Upload/Download section p. 92 of this manual for instructions on downloading dives.









NOTE: Red colored sections on the graph represent decompression during the dive.

Doc. 12-7892-r01 (4/24/18)

DIVE FEATURES

DTR (DIVE TIME REMAINING)

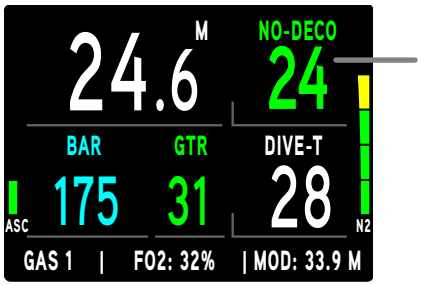
The i770R constantly monitors No Decompression status and O2 Accumulation, and will display whichever time is the least amount available as DTR on the No Decompression Dive Main screen. The time being displayed will be identified by the NO DECO (no decompression) or O2 MIN icons.

NO DECOMPRESSION

No Decompression is the maximum amount of time that you can stay at your present depth before entering decompression. It is calculated based on the amount of nitrogen absorbed by hypothetical tissue compartments. The rates each of these compartments absorb and release nitrogen is mathematically modeled and compared against a maximum allowable nitrogen level.

Whichever compartment is closest to this maximum level is the controlling compartment for that depth. Its resulting value NO DECO (no decompression) will be displayed. It will also be displayed graphically as the N2 Bar Graph, see Bar Graphs later in this section.

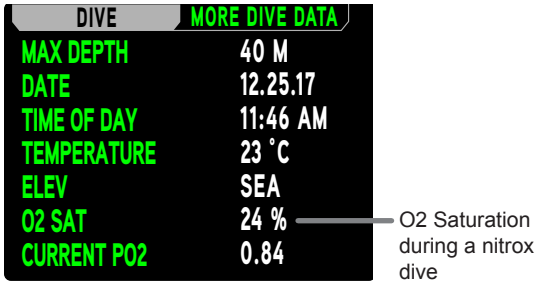
As you ascend, the N2 Bar Graph will recede as control shifts to slower compartments. This is a feature of the decompression model that is the basis for multilevel diving, one of the most important advantages that Aqua Lung dive computers offer.



O2 TIME (OXYGEN TIME REMAINING)

When set for nitrox operation, O2 SAT (Oxygen Saturation) during a dive is displayed on the More Dive Data screen as a percentage of allowed saturation identified by the O2 SAT graphic. The limit for O2 SAT (100%) is set at 300 OTU (Oxygen Tolerance Units) per dive or 24 hour period. See the chart at the back of this manual for specific times and allowances. O2 SAT and O2 TIME values are inversely related; as the O2 SAT value increases the O2 TIME value decreases.

When the O2 TIME value becomes less than the No Decompression calculations for the dive, DTR (Dive Time Remaining) will be controlled by O2 SAT and the O2 TIME value will be displayed as the DTR on the Dive Main screen, identified by the O2 TIME icon.

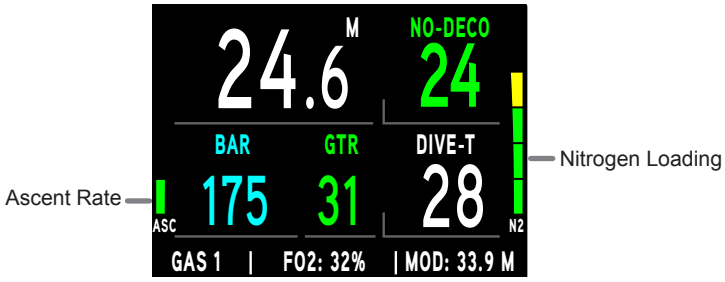


Doc. 12-7892-r01 (4/24/18)

BAR GRAPHS

The i770R features two specific bar graphs.

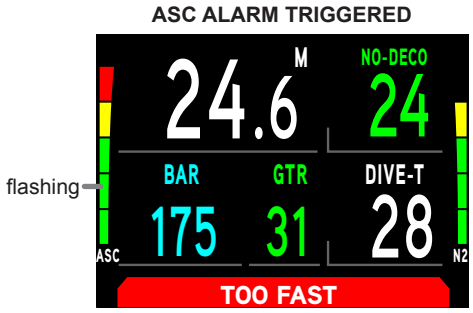
1. The one on the left represents ascent rate. It is referred to as ASC Bar Graph.
2. The one on the right represents nitrogen loading. It is referred to as the N2 Bar Graph.



ASC BAR GRAPH

The ASC Bar Graph provides a visual representation of ascent speed (i.e., an ascent speedometer). When the ascent is faster than the recommended 30 fpm (9 mpm), all segments flash until the ascent is slowed.

# OF SEGMENTS	ASCENT RATE, MPM (FPM)
0	0 – 1.8 (0 - 6)
1	>1.8 - 3.7 (6 - 12)
2	>3.7 - 5.5 (>12 - 18)
3	>5.5 - 7.4 (>18 - 24)
4	>7.4 - 9.2 (>24 - 30)
5	> 9.2 (> 30)



N2 BAR GRAPH

The N2 Bar Graph represents your relative No Decompression or Decompression status. As your depth and elapsed dive time increase, the bar graph will grow in length, shift from green to amber, and ultimately to red (indicating a Decompression condition). As you ascend the bar graph recedes, indicating that additional No Decompression time is available. The i770R monitors multiple theoretical nitrogen compartments simultaneously. The N2 Bar Graph displays the one that is in control of your dive at any given time.

ALGORITHM

The i770R utilizes the Z+ algorithm to calculate nitrogen tissue loading. Performance is based on Bühlmann ZHL-16C algorithm model. To create even greater margins of safety with respect to decompression, a Conservative Factor as well as No Decompression Deep and Safety Stops can be included for No Decompression dives.

CONSERVATIVE FACTOR

When the Conservative Factor is set ON, the dive time remaining, No Decompression/O2 TIME, which are based on the algorithm and used for N2/O2 calculations and displays relating to Plan Mode, will be reduced to the values available at the altitude level that is 915 m (3,000 ft) higher than the actual altitude at activation. Refer to the charts in the back of this manual for dive times.

DEEP STOP

When the Deep Stop selection is set ON, it will trigger after descending deeper than 24 m (80 ft). The i770R then calculates (continually updating) a Stop Depth equal to ½ the Max Depth.

NOTE: The Deep Stop feature only works in DIVE Mode while within No Decompression times.

- While 3 m (10 ft) deeper than the calculated Deep Stop, you will be able to access a DS (Deep Stop) Preview screen that will display the current calculated Deep Stop Depth/Time.

Doc. 12-7892-r01 (4/24/18)

- Upon initial ascent to within 3 m (10 ft) below the calculated Stop Depth, a Deep Stop screen displaying a Stop Depth at ½ the Max Depth will appear with a countdown timer beginning at 2:00 (min:sec) and counting down to 0:00. If you descend 3 m (10 ft) below, or ascend 3 m (10 ft) above, the calculated Stop Depth for 10 seconds during the countdown, the No Decompression Main will replace the Deep Stop Main display and the Deep Stop feature will be disabled for the remainder of that dive. There is no penalty if the Deep Stop is ignored.

- In the event that you enter Decompression, exceed 190 ft (57 m), or a High O2 SAT (Oxygen Saturation) condition, ≥ 80%, occurs, the Deep Stop will be disabled for the remainder of that dive.

- The Deep Stop is disabled during a High PO_2 Alarm condition, ≥ set point.

SAFETY STOP

Upon ascent to within 1.5 m (5 ft) deeper than the Safety Stop depth set for 1 second on a No Decompression dive in which depth exceeded 9 m (30 ft) for 1 second, a beep will sound and a Safety Stop at the depth set will appear on the Dive Main display with a countdown beginning at the Safety Stop time set and counting down to 0:00.

- If the Safety Stop was set for OFF, the display will not appear.

- In the event that you descend 3 m (10 ft) deeper than the Stop Depth for 10 seconds during the countdown, or the countdown reaches 0:00, the No Decompression Main screen will replace the Safety Stop Main screen. the Safety Stop Main screen will reappear upon ascent to within 1.5 m (5 ft) deeper than the Safety Stop depth set for 1 second.

- In the event that you enter Decompression during the dive, complete the Decompression obligation, then descend below 9 m (30 ft); the Safety Stop Main will appear again upon ascent to within 1.5 m (5 ft) deeper than the Safety Stop depth set for 1 second.

- If you ascend to 0.9 m (3 ft) of the surface for 1 second, the Safety Stop will be canceled for the remainder of that dive.

- There is no penalty if you surface prior to completing the Safety Stop or choose to ignore it.

LOW BATTERY WHILE ON THE SURFACE

Warning Level

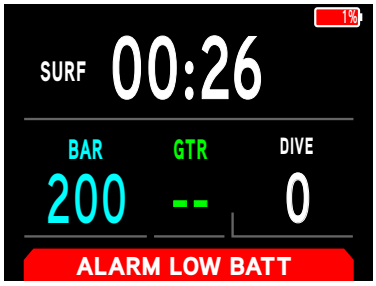
- When capacity drops to 15% of full charge, the battery icon is to be displayed in yellow and flash.
- The graphics WARNING LOW BATT with a yellow background at the bottom of the screen will flash while in Surface Mode.
- The i770R functions continue but screen brightness is limited to 60% of max.

⚠ **WARNING: Recharge the battery before diving if your i770R indicates the Battery Low Warning or Alarm.**

Alarm Level

- When capacity drops to 1% of full charge the battery icon is to change to red and flash.
- The graphics ALARM LOW BATT with a red background at the bottom of the screen while in Surface Mode.
- The i770R functions continue until the battery is exhausted but screen brightness is limited to 30% max and dives are not permitted.

⚠ **WARNING: Recharge the battery before diving if your i770R indicates the Battery Low Warning or Alarm.**

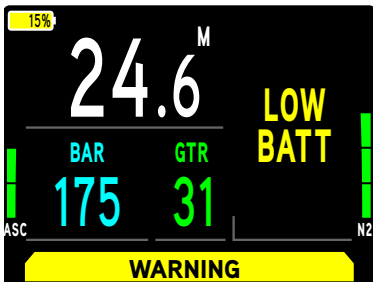


LOW BATTERY DURING A DIVE

Warning Level

- When capacity drops to 15% of full charge, the battery icon is to be displayed in yellow and flash.
- The graphic WARNING on a yellow background at the bottom of the screen and the graphic LOW BATT in yellow (replacing NO-DECO/O2 TIME and DIVE-T) shall flash for 10 seconds while the audible alarm sounds.
- After the audible alarm the battery icon will remain solid while the graphics are removed.
- The i770R functions continue but screen brightness is limited to 60% max.

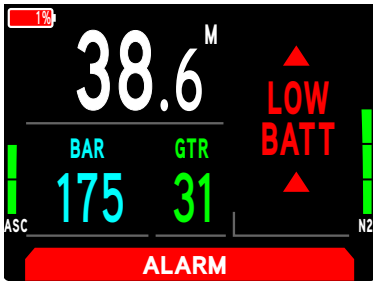
⚠ **WARNING: Recharge the battery before making additional dives if your i770R indicates the Battery Low Warning during a dive.**



Alarm Level

- When capacity drops to 1% of full charge the battery icon is to change to red and flash.
- The graphic ALARM on a red background at the bottom of the screen and the graphic LOW BATT with two up arrows in red (replacing NO-DECO/O2 TIME and DIVE-T) shall flash during the audible alarm.
- The i770R functions continue but screen brightness is limited to 30% max.
- The i770R will shut down when the battery is completely exhausted.

⚠ **WARNING: The i770R will shut down when the battery is completely exhausted. Recharge the battery before making additional dives. End your dive as soon as is safe if your i770R indicates the Battery Low Alarm during a dive.**



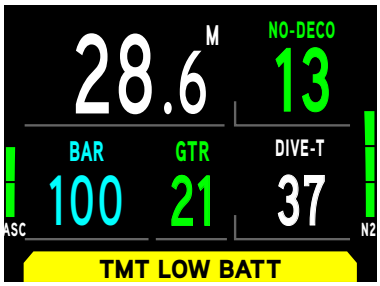
Doc. 12-7892-r01 (4/24/18)

LOW TMT (TRANSMITTER) BATTERY

Warning Level

- Activates when the transmitter voltage drops below 2.7 volts.
- The graphic TMT LOW BATT is displayed on a yellow background at the bottom of the screen.
- Transmitter operation continues.

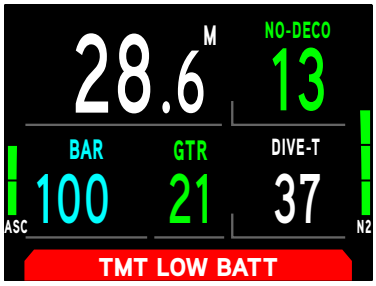
⚠ **WARNING: Change the transmitter battery before starting a new dive or making subsequent dives if your i770R indicates the Transmitter Battery Low Warning.**



Alarm Level

- Activates when the transmitter voltage drops below 2.5 volts.
- The graphic TMT LOW BATT is displayed on a red background at the bottom of the screen.
- Transmitter operation continues until the battery drops to a nominal voltage. At that time a Lost Link Warning will display on the screen.

⚠ **WARNING: Change the transmitter battery before starting a new dive or making subsequent dives if your i770R indicates the Transmitter Battery Low Alarm.**



Doc. 12-7892-r01 (4/24/18)

AUDIBLE ALARM

While operating in Dive or Gauge Mode, the audible alarm will emit 1 beep per second for 10 seconds when alarms strike. During that time, the audible alarm can be acknowledged and silenced by pressing the SELECT button.

The audible alarms will not be active if the audible alarm is set to OFF (a Set Alarms setting).

Free Dive Mode has its own alarms which emit multiple beeps multiple times which cannot be acknowledged or set to OFF.

Events that emit (10) beeps >> each sound for ½ sec with ½ sec silence between beeps:
- Watch Daily Alarm.
- Watch CDT Alarm.
- DIVE, GAUGE - GTR Alarm.
- DIVE, GAUGE - Turn Alarm (TMT 1 only).
- DIVE, GAUGE - Press Alarm (TMT in use).
- DIVE, GAUGE - Loss of Link (Dive Mode).
- DIVE, GAUGE - Ascent Rate too fast.
- DIVE, GAUGE - Depth Alarm.
- DIVE, GAUGE - Dive-T Alarm.
- DIVE - DTR Alarm.
- DIVE - N2 Bar Alarm.
- DIVE - entry into Decompression.
- DIVE - Conditional Violation.
- DIVE - Delayed Violations 1, 2.
- DIVE, GAUGE - Delayed Violation 3.
- DIVE, GAUGE - entry into Violation Gauge Mode.
- DIVE - PO2 Alarm.
- DIVE - O2 Warning and Alarm.
- DIVE - Gas Switch Alarm.

Events that emit (3) beeps >> each sound for ½ sec with ½ sec silence between beeps:
- FREE - Delayed Violation 3.

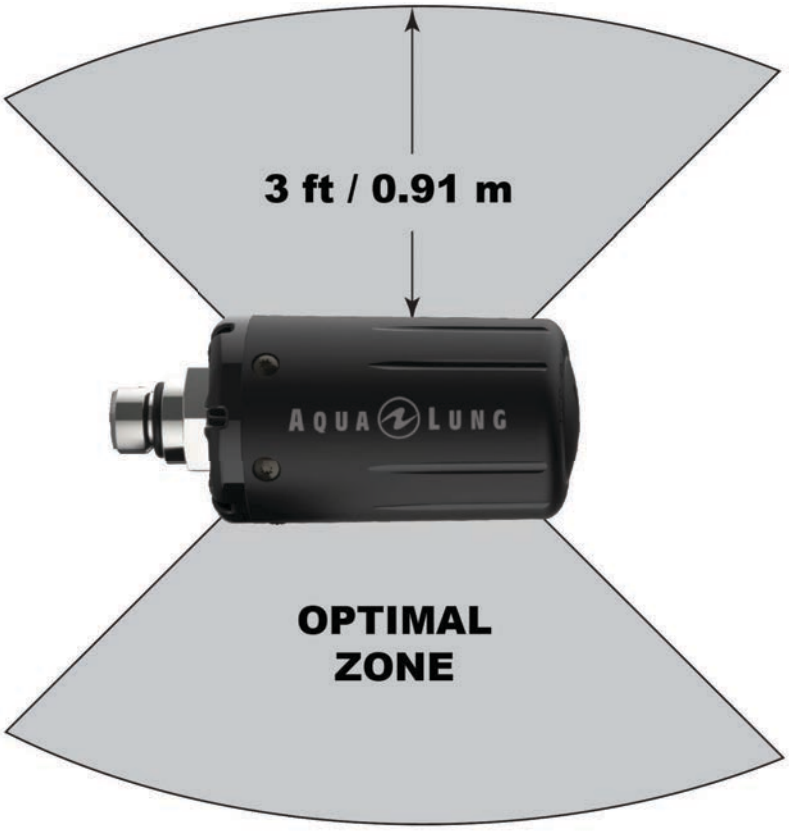
Events that emit (3) sets of (3) beeps >> each sound for ½ sec with ½ sec silence between beeps and ½ sec silence between sets:
- FREE - RTI AL (Repeating Time Interval Alarm)
- FREE - CDT (Countdown Timer) Alarm.
- FREE - N2 Alarm.
- FREE - Violation, entry into Decompression.

Events that emit (3) sets of (3) beeps >> each sound for ⅛ sec with ⅛ sec silence between beeps and ¼ sec silence between sets:
- FREE - DA1 to DA3 Alarms.

Doc. 12-7892-r01 (4/24/18)

PROXIMITY OF THE TMTS (TRANSMITTERS) AND i770R

The TMTs emit low frequency signals that radiate out in semicircular patterns parallel to the length dimension of the TMT. A coiled antenna inside the i770R wrist unit receives the signals when it is positioned within a zone parallel to or at a 45 degree angle to the TMT as illustrated.



The i770R cannot effectively receive a signal when it is held out to the sides of the TMT or held at distances greater than 0.91 m (3 ft) in front of the TMT. Best reception is achieved when the i770R is within less than 0.91 m (3 ft) of the TMT.

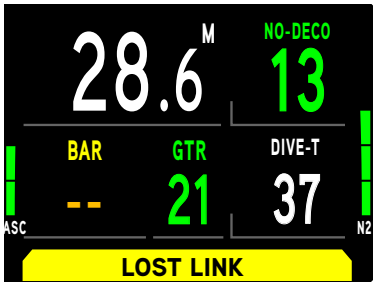
When installed into the high pressure ports of the regulator first stages, the TMTs must be positioned so that they face horizontally outward from the tank valves.

Link Interruption Underwater

During a dive, you may at times move the i770R out of the signal pattern of the TMT, resulting in a temporary loss of the link signal. The link will be restored within 4 seconds after the i770R is moved back into its correct position.

An interruption may also occur while the i770R is within 3 feet (1 meter) of a running DPV, or shortly after a strobe flashes. The link will be restored within 4 seconds after the i770R is moved out of that area.

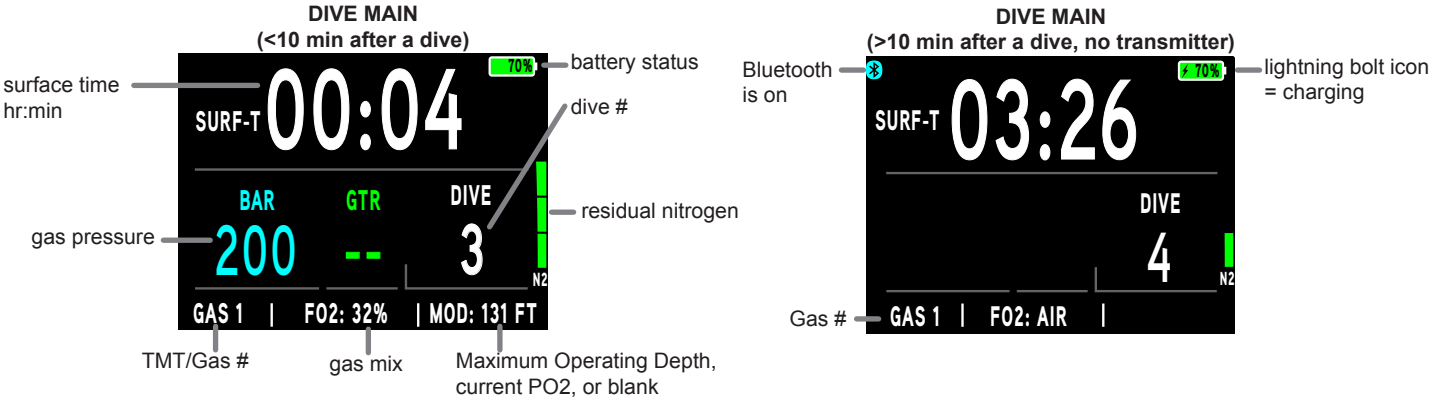
If the link is not restored within 1 minute, the audible alarm will sound, dashes will replace gas pressure and GTR values.

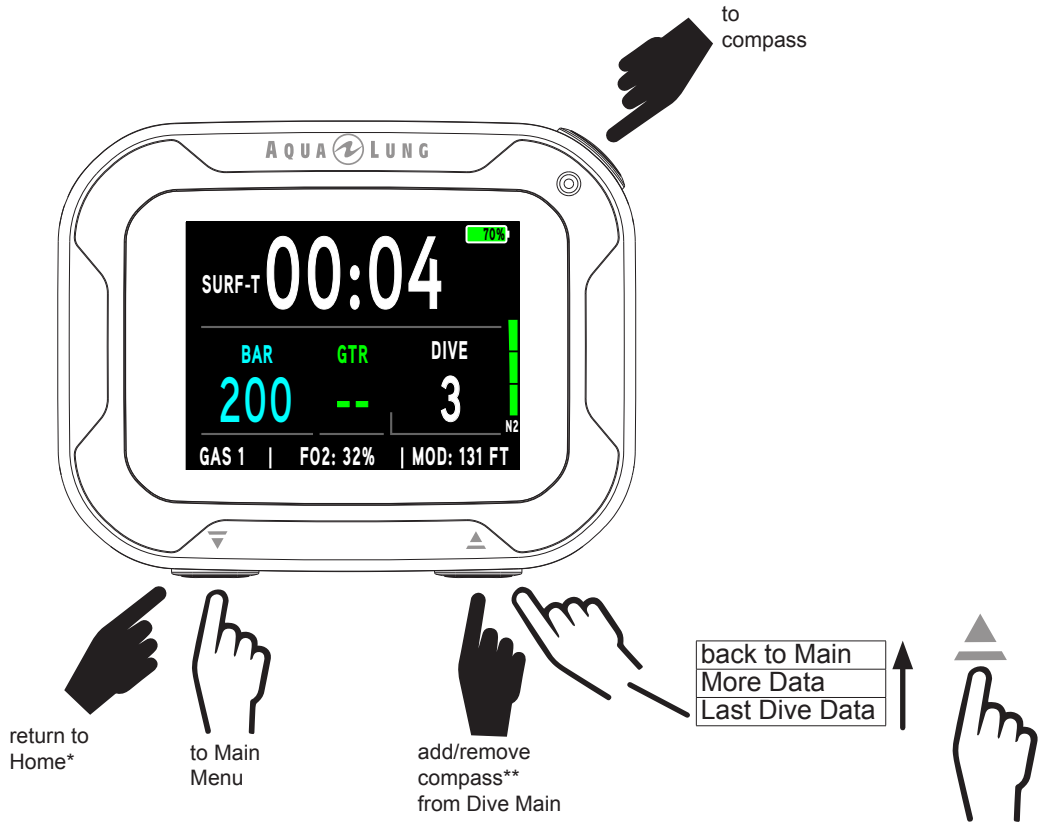


DIVE SURFACE MODE

ON THE SURFACE BEFORE A DIVE

The Dive Main screen will display the SURF-T (Surface Time) and the selected FO_2 of the breathing gas. The surface time displayed is the time since activation or the surface interval after a dive.



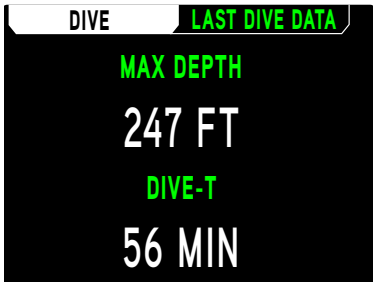


**This function is blocked during the first 10 minutes after a dive.*

***See the "Compass On Main Screen" section p. 90 for further details.*

LAST DIVE DATA

This screen displays essential data from the last dive. If there has been no dive within the current activation cycle, the message NO DIVE YET will be displayed.

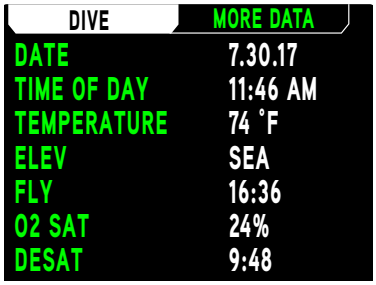


MORE DATA

This screen displays additional data like date, time of day, temperature, current elevation readings, the FLY (Time to Fly), O2 SAT (Saturation), and the DESAT (Desaturation) countdown.

- The Time to Fly countdown shall begin counting from 23:50 to 0:00 (hr:min), 10 minutes after surfacing from a dive.
- The DESAT counter shall provide calculated time for Tissue Desaturation at sea level taking into consideration the Conservative Factor if the Conservative setting was set to on. It shall begin counting down 10 minutes after surfacing from DIVE or FREE dives counting down from a maximum of 23:50 to 0:00 (hr:min). When the DESAT countdown reaches 0:00 (hr:min), which will generally occur prior to the FLY countdown reaching 0:00 (hr:min), it will remain on the display as 0:00 until the Fly countdown also reaches 0:00.
- Dashes will be shown for FLY, O2SAT, and DESAT if no dives have been made during the current operation cycle.

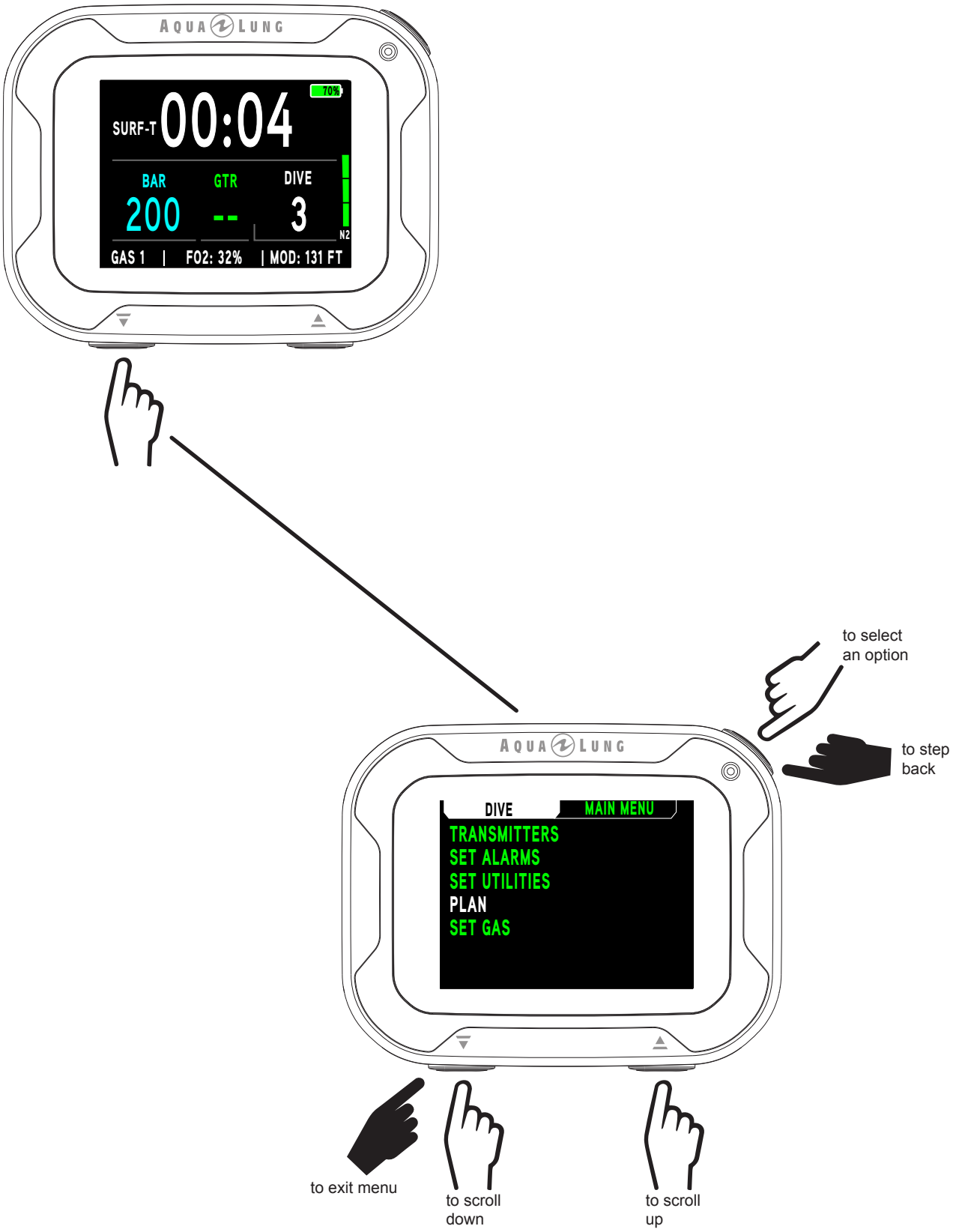
NOTE: Desaturation requiring times greater than 24 hours will display the graphic > 24:00. In the event that Time to Desaturate still remains at the end of 24 hours, the unit will turn Off and any Nitrogen and Oxygen calculations will clear.



Doc. 12-7892-r01 (4/24/18)

DIVE MAIN MENU

To set transmitters, alarms, gases, plan dives, or change other settings you must navigate through the Dive Main Menu. Enter the menu by pressing the ▼ (Down) button. Press the ◎ (Select) button to choose options from the Dive Main Menu. All Dive Main Menu options will be discussed in the order they appear in the menu below.



TRANSMITTERS

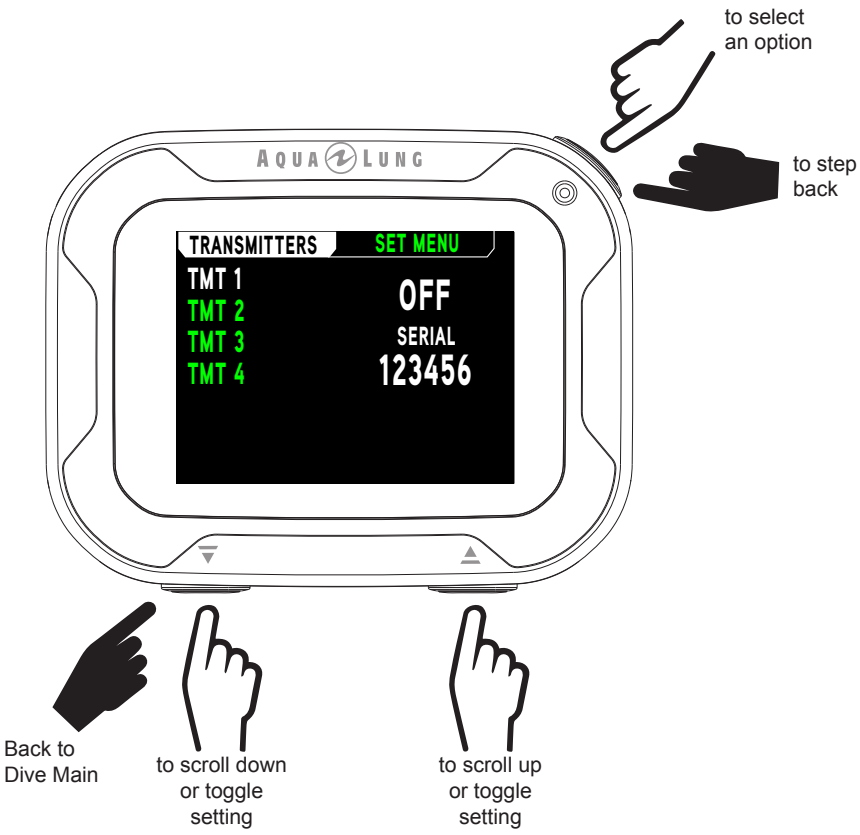
The i770R can use up to 4 transmitters to monitor gas supplies. The TMT Menu allows for the programming of the wrist unit to receive the signals from selected Aqua Lung transmitters. See the Dive Mode Features section (p. 34) for further information on transmitters.

You can scroll up or down to select the TMT (transmitter) you want to modify. The transmitters have the option of ON, OFF, or SET. The SET option will allow you to enter the serial number/ID code for the transmitter.

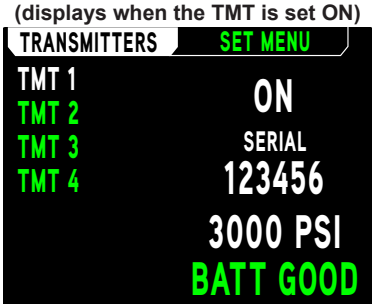
When a transmitter is set ON the message SEARCHING will flash while your i770R establishes a connection to the selected transmitter. The transmitter status will display battery and gas pressure status. If your i770R can't connect to the selected transmitter for any reason, the message NOT AVAIL (not available) will be displayed.

NOTE: If the TMT is set OFF for the active gas, the section of the Main Screen that normally displays pressure will be blank.

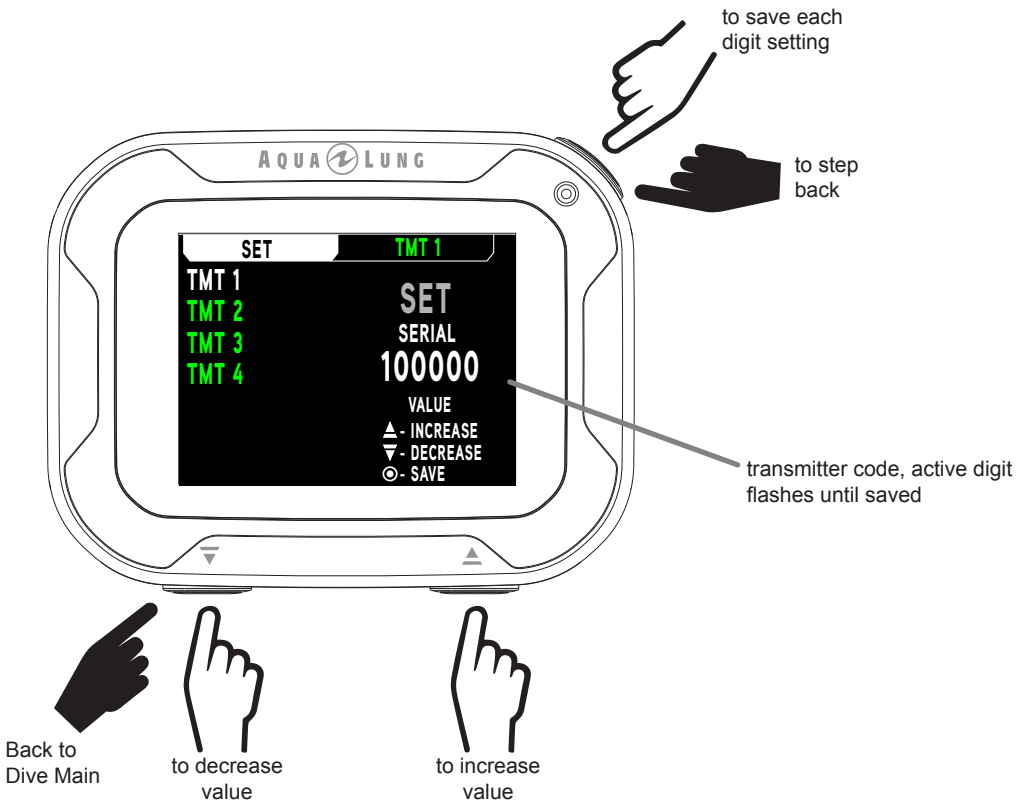
NOTE: If the proceeding transmitter in the menu is set to OFF the settings for the following transmitters will be blocked. For example, access to TMT 2 settings will be blocked if TMT 1 is set to OFF.



TRANSMITTER STATUS
(displays when the TMT is set ON)



Doc. 12-7892-r01 (4/24/18)

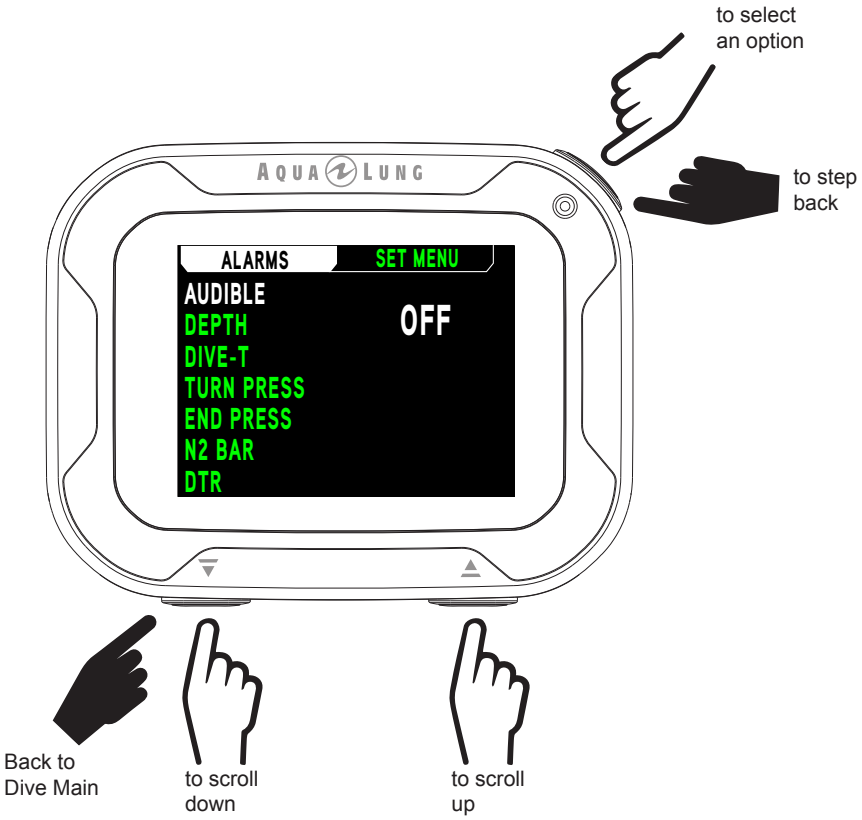


NOTE: The serial number can be located in two places directly on the transmitter.

Doc. 12-7892-r01 (4/24/18)

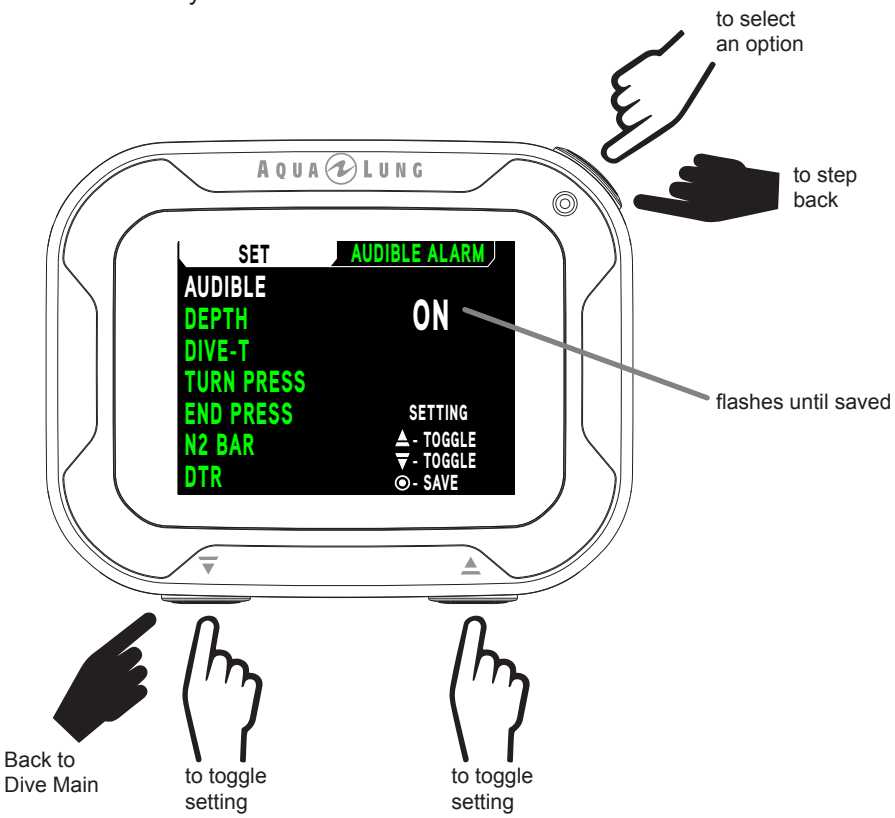
SET ALARMS

Within this submenu you can customize the following seven alarm settings. When one of these alarms is triggered the critical data will flash on the Dive Main screen.



1. Audible

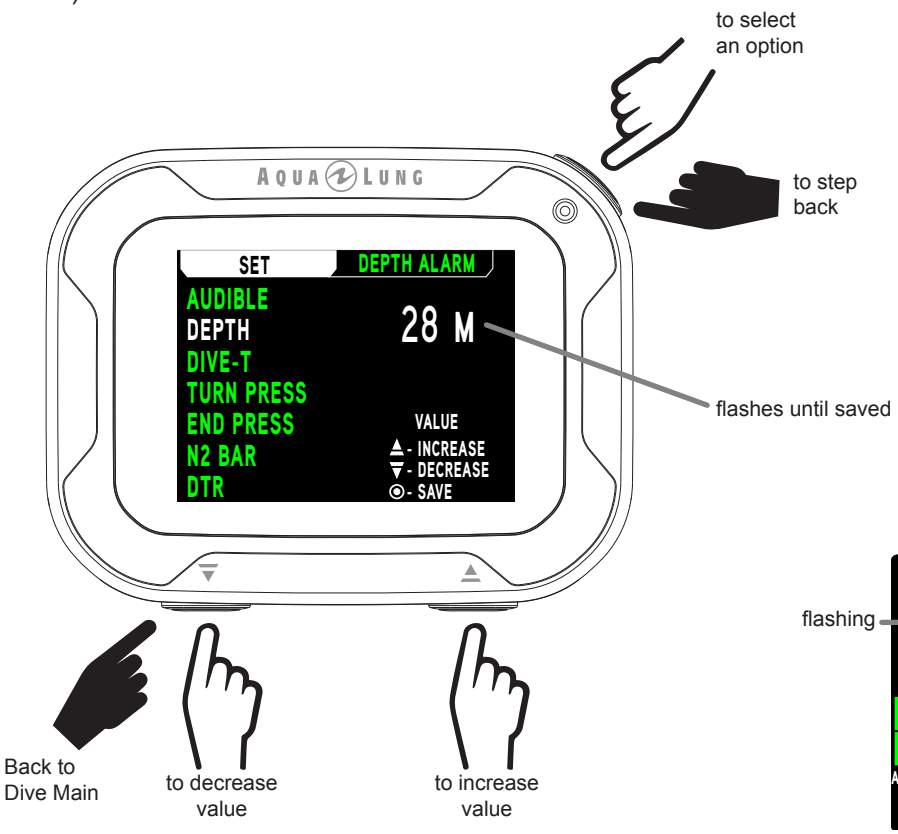
The Audible Alarm allows you to set audible alarms ON or OFF.



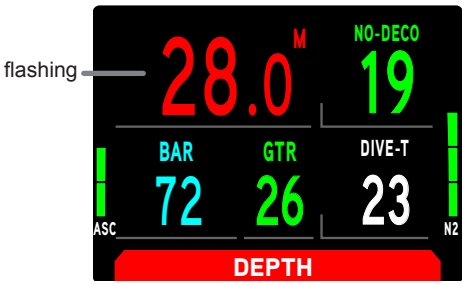
Doc. 12-7892-r01 (4/24/18)

2. Depth

The Depth Alarm allows you to set a maximum depth alarm. Selections inlcude OFF or 10 - 100 m (30 - 330 ft).

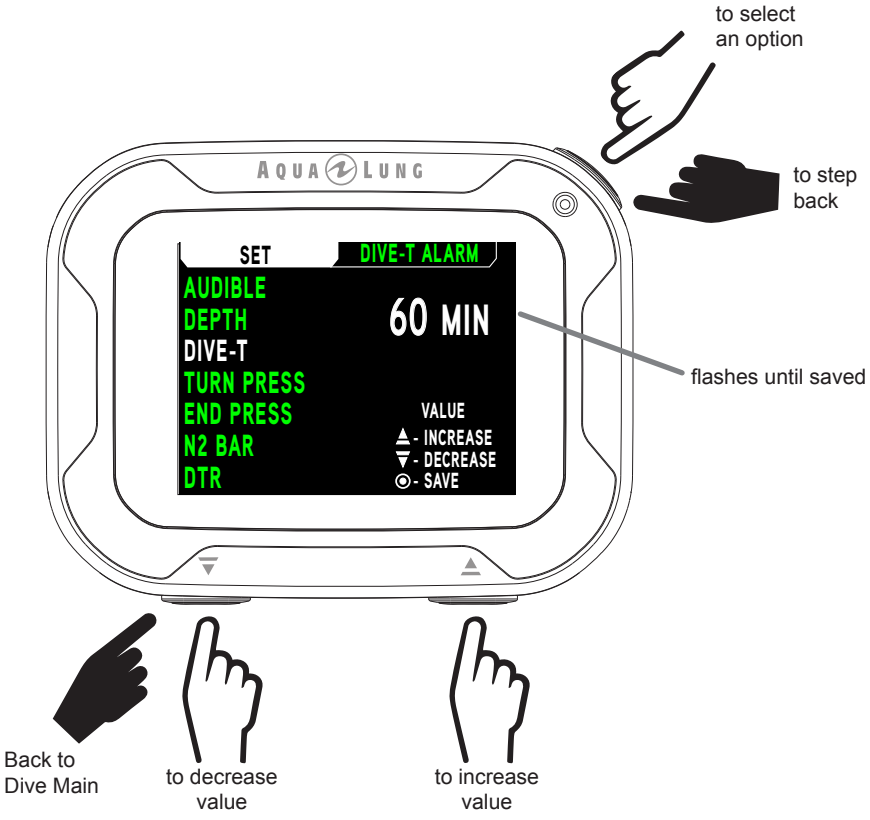


DEPTH ALARM TRIGGERED

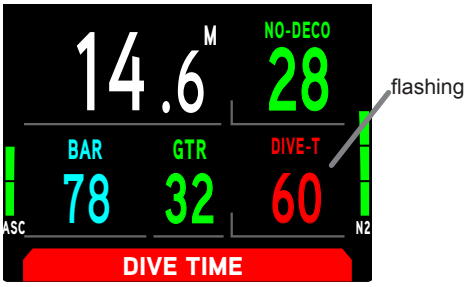


3. Dive-T

The Dive Time Alarm allows you to set an alarm to go off at a predetermined amount of dive time. Settings include OFF or 10 - 180 min.



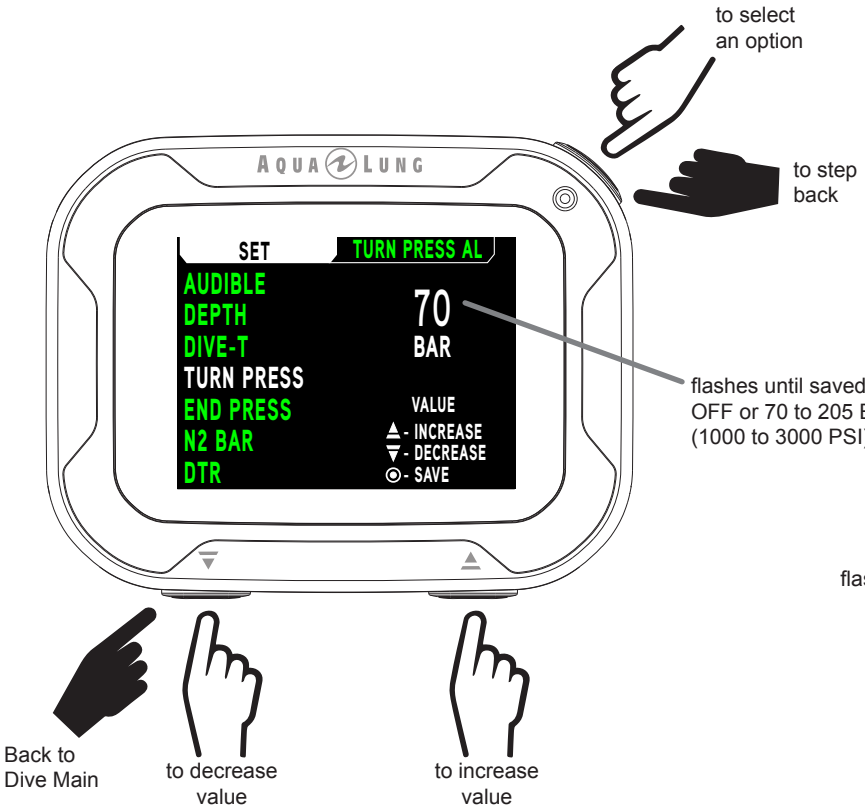
DIVE-T ALARM TRIGGERED



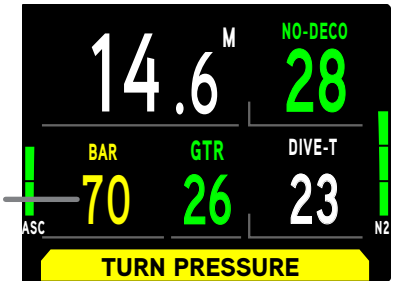
Doc. 12-7892-r01 (4/24/18)

4. Turn Press

The Turn Pressure Alarm allows you to set an alarm to trigger at a designated turn pressure.



TURN PRESS ALARM TRIGGERED

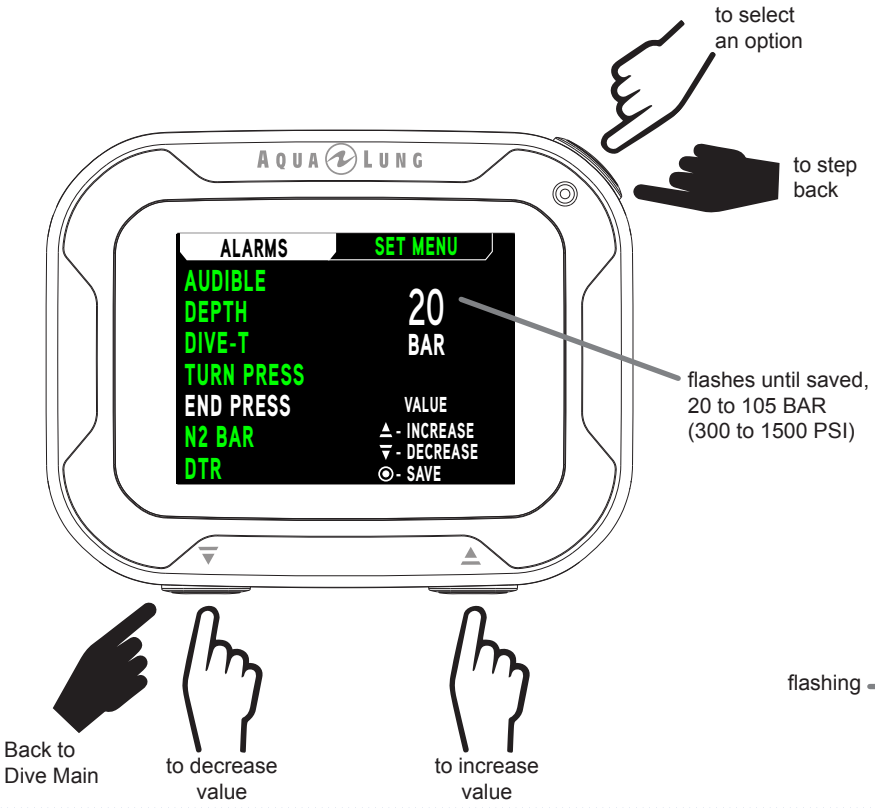


flashing

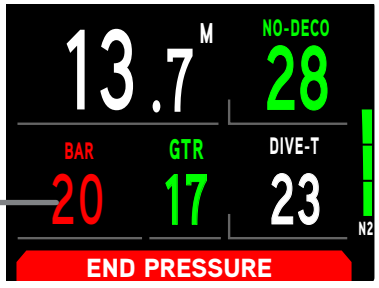
5. End Press

The End Pressure Alarm allows you to set an alarm for when you reach a designated end pressure.

NOTE: The Pressure Alarm only considers the active gas when diving with multiple gas transmitters.



END PRESS ALARM TRIGGERED

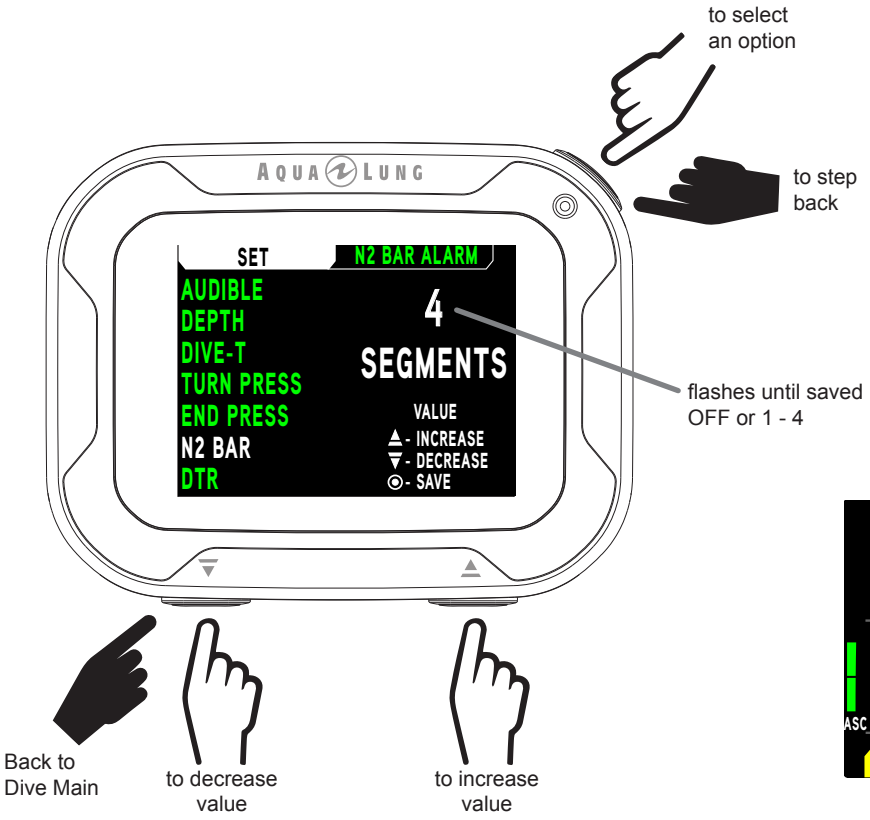


flashing

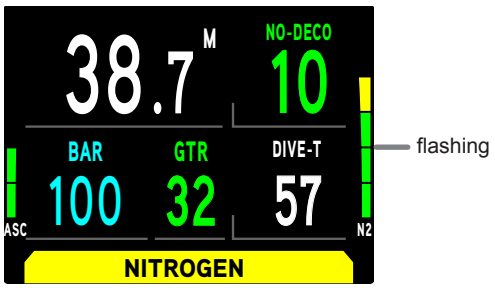
Doc. 12-7892-r01 (4/24/18)

6. N2 Bar

This feature allows you to set an alarm to go off at a predetermined number of N2 bar graph segments being filled.

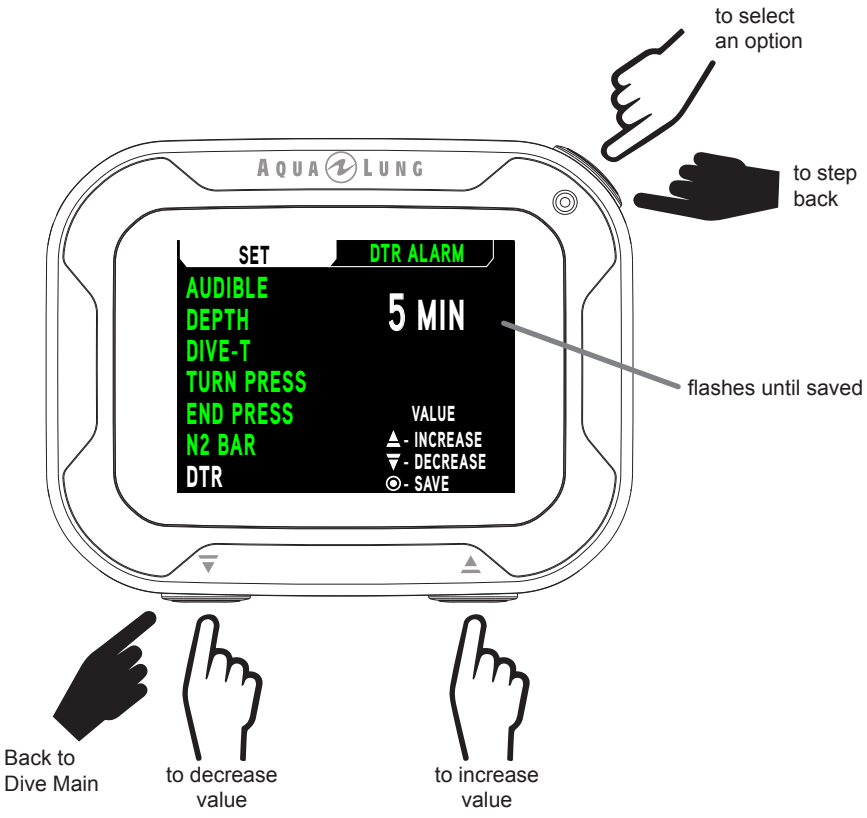


N2 BAR ALARM TRIGGERED

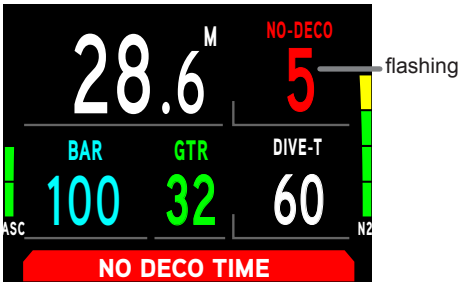


7. DTR

The Dive Time Remaining Alarm allows you to set an alarm to go off with a designated reserve. Settings include OFF or 5 - 20 min of dive time remaining.



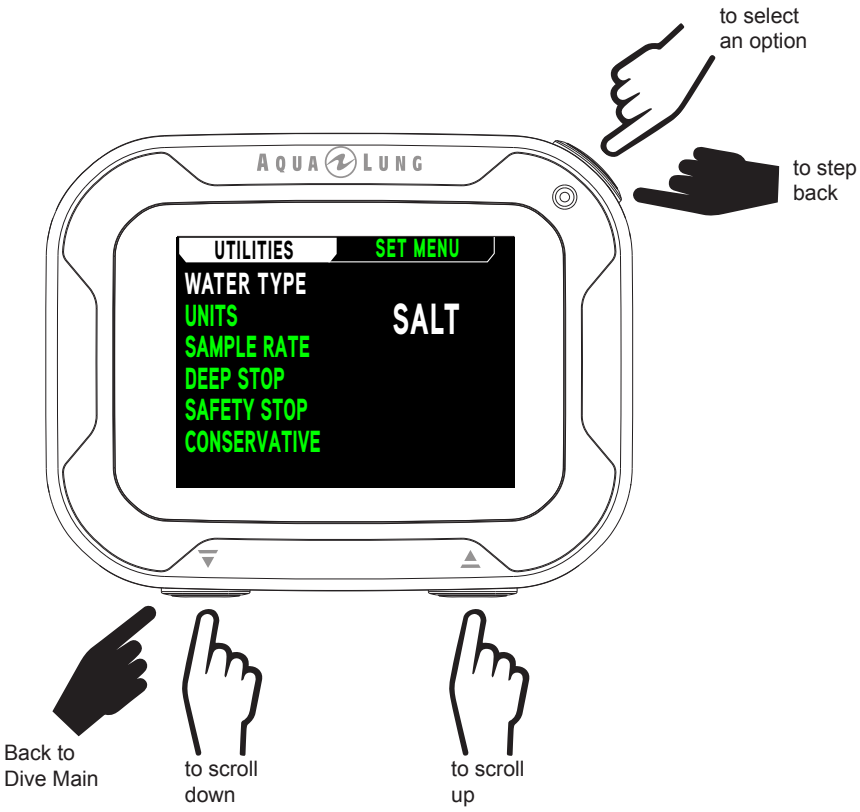
DTR ALARM TRIGGERED



Doc. 12-7892-r01 (4/24/18)

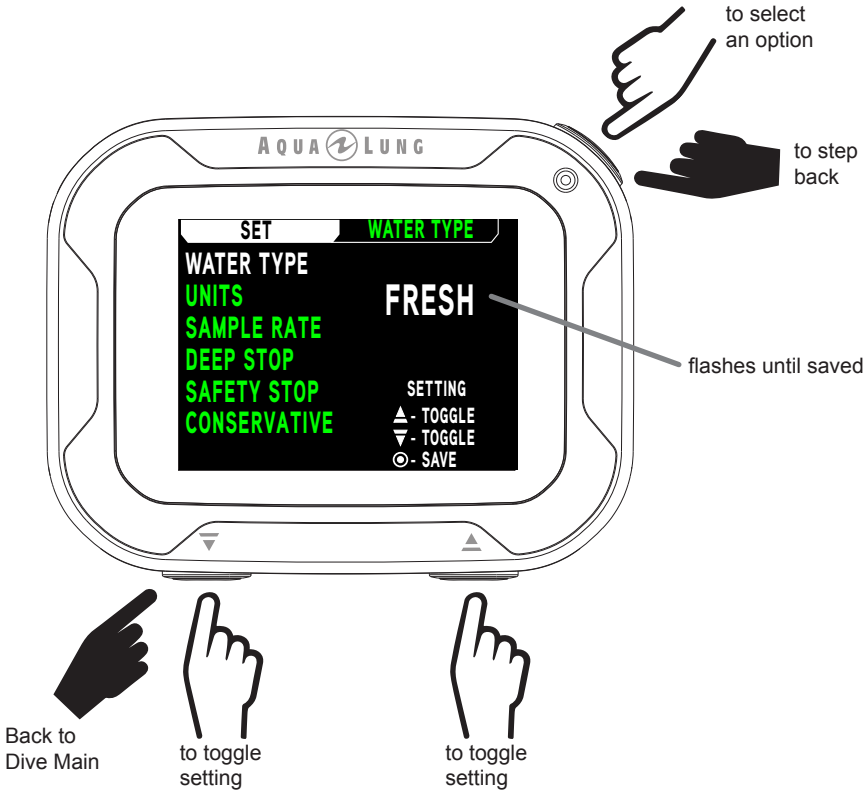
SET UTILITIES

Within the Set Utilities menu you can customize the following six operational functions.



1. WATER TYPE

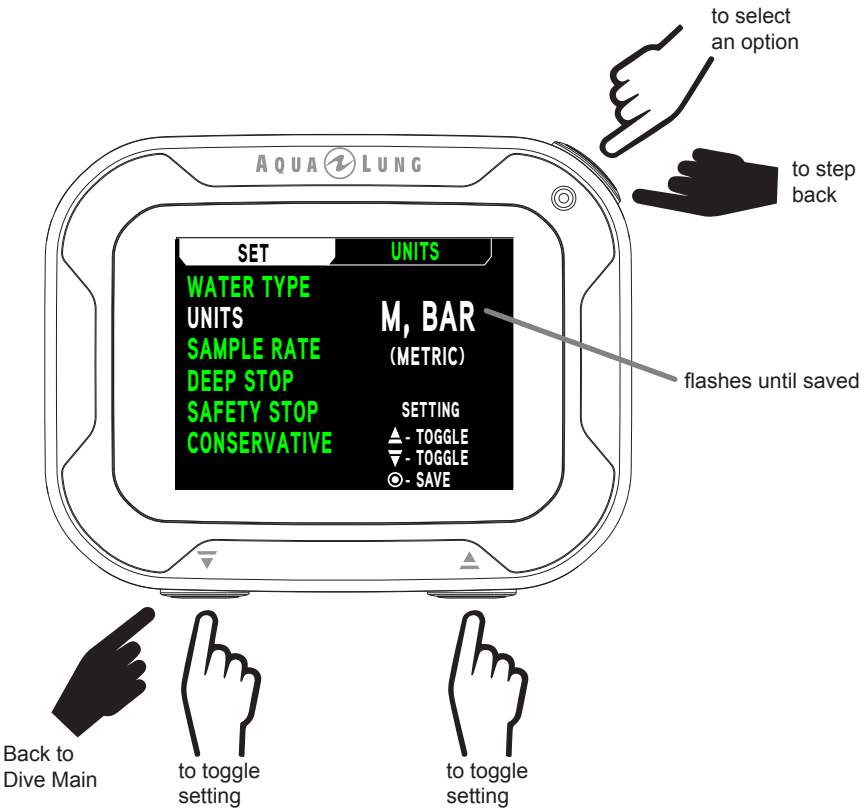
The Water Type feature allows you to set SALT or FRESH water environment for accurate depth calculations.



Doc. 12-7892-r01 (4/24/18)

2. UNITS

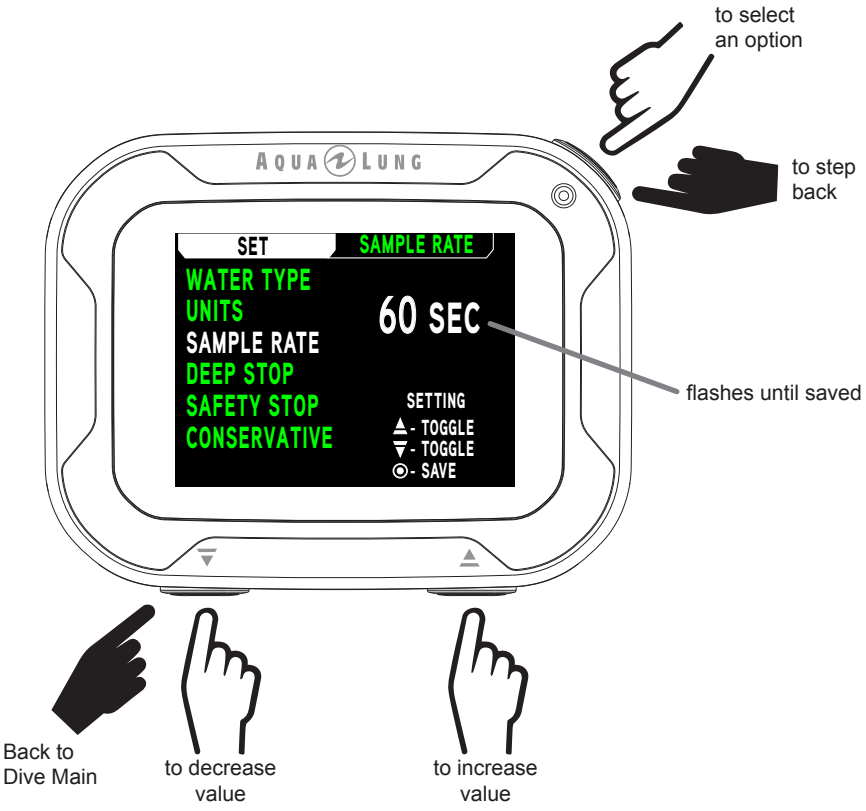
The Units feature allows you to select whether Metric (M, BAR) or Imperial (FT, PSI) units of measure will be displayed.



3. SAMPLE RATE

The Sample Rate controls how frequently the i770R stores a data snapshot for Diverlog + Download during a dive. Setting options are 2, 15, 30, or 60 second intervals. Shorter intervals will provide a more precise record of your dives.

NOTE: New data will automatically overwrite the oldest data in memory when the memory becomes full. The i770R Log and Diverlog + Download data is stored separately in different partitions of the memory. The Log only stores a short summary of each dive. Alternately, the Diverlog + Download function stores much larger files for each dive. Depending on the chosen settings and dive durations, it is possible to see dives stored in the i770R's onboard Log that have already been overwritten in the Diverlog + Download Partition. Choosing a longer Sample Rate interval will consume less memory per dive. Remember to download your dives more frequently if you are using a shorter Sample Rate interval.

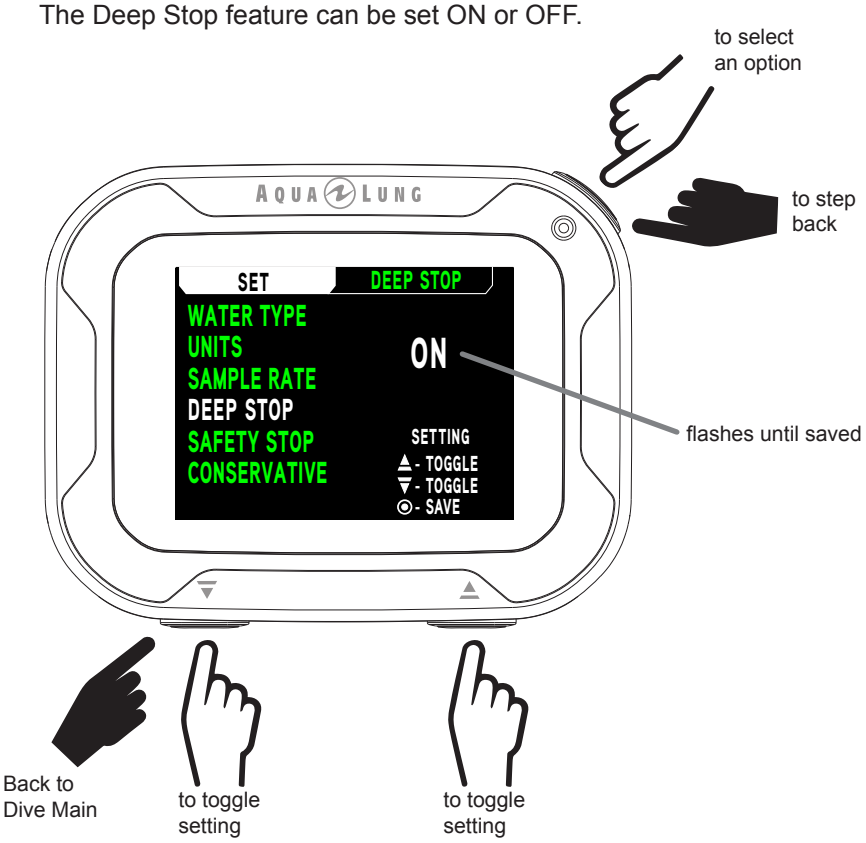


DIVE & GAUGE MODE DOWNLOAD MEMORY CAPACITY	
SAMPLE RATE (seconds)	MAXIMUM HOURS
2	218
15	1638
30	3276
60	6553

Doc. 12-7892-r01 (4/24/18)

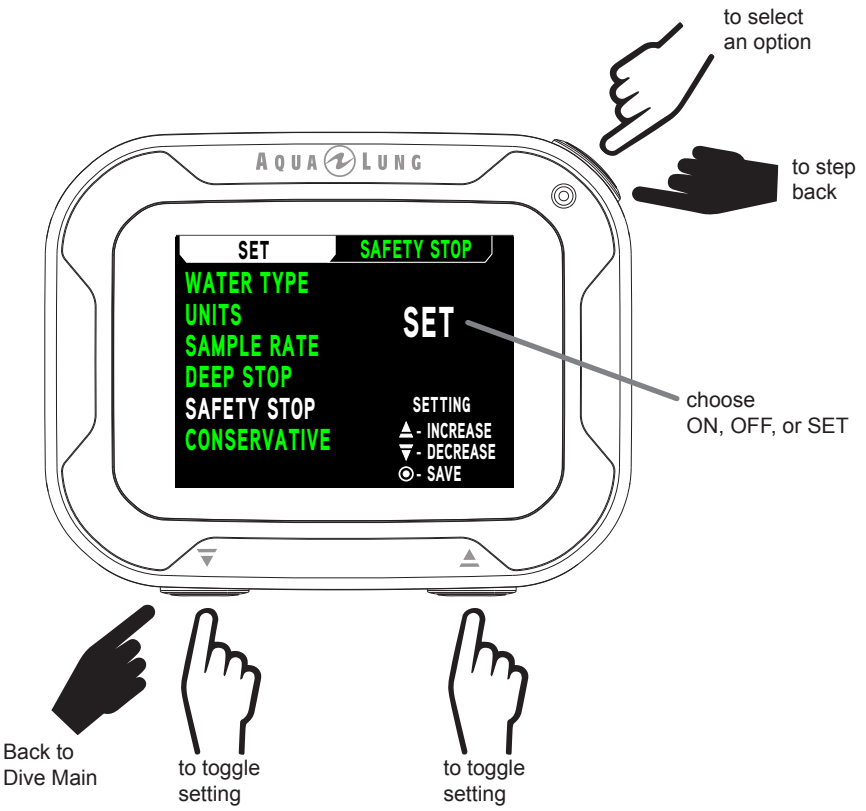
4. DEEP STOP

The Deep Stop feature can be set ON or OFF.

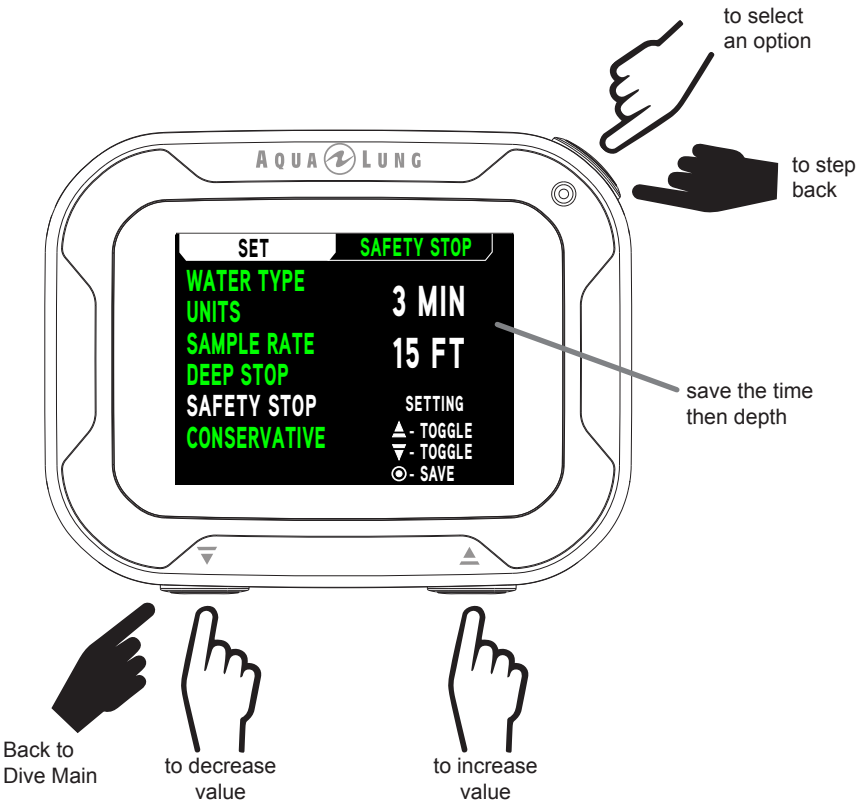


5. SAFETY STOP

The Safety Stop feature can be set ON or OFF. If SET is selected, you may choose from an available 3 or 5 min Safety Stop at depths of 3, 4, 5, or 6 m (10, 15, or 20 ft).

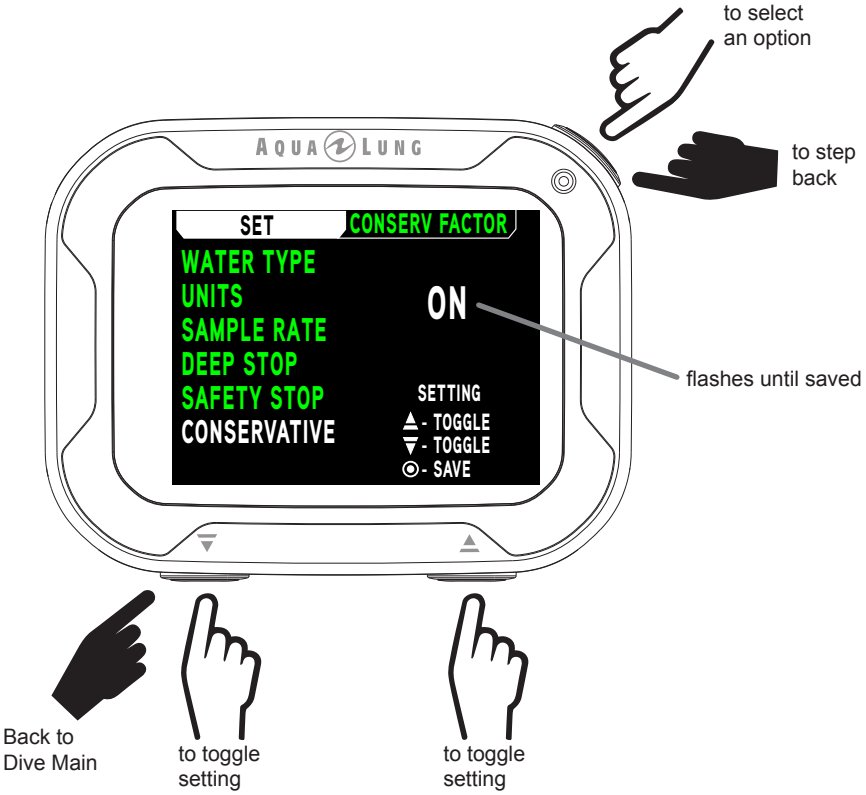


Doc. 12-7892-r01 (4/24/18)



6. CONSERVATIVE

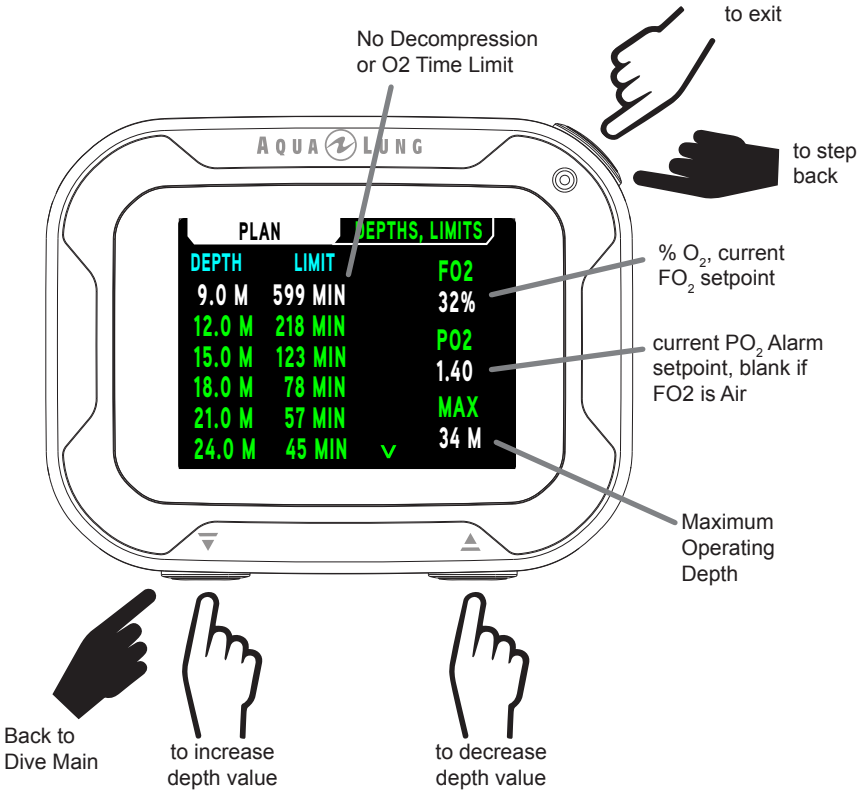
The Conservative feature (see pg. 28) can be set ON or OFF.



PLAN

This mode calculates dive depth and time limits. To do so, it accounts for any residual nitrogen, oxygen, surface intervals, the programmed gas mix, and PO_2 alarm setting. Either NO DECO (No Decompression) or O2 TIME limits are displayed, depending on whether nitrogen or oxygen levels will be the limiting factor.

NOTE: Depths exceeding the MOD (Maximum Operating Depth), if nitrox, or that have less than 1 minute allowed dive time will not be displayed.



Doc. 12-7892-r01 (4/24/18)

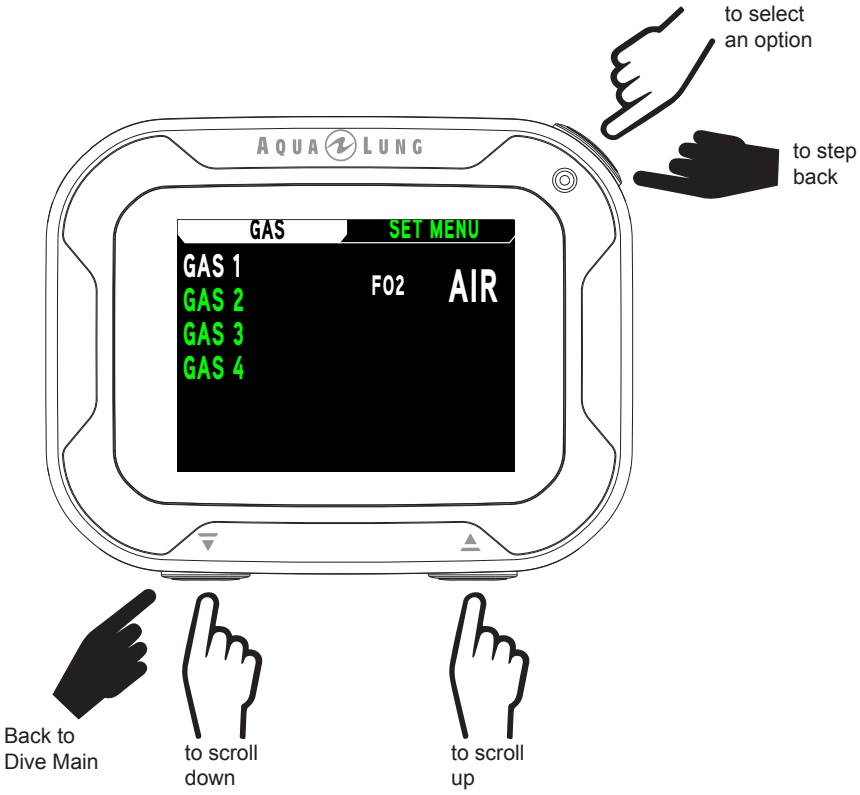
SET GAS

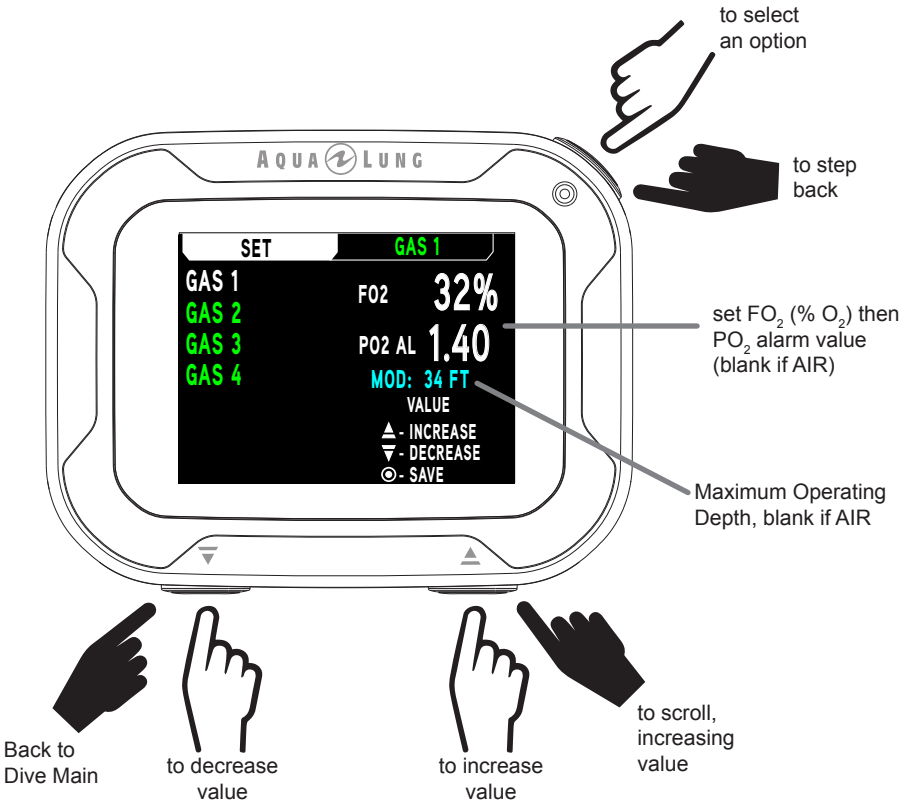
Within this submenu you can change the available gas mixes from OFF, AIR, or to any nitrox mix between 21 - 100 FO_2 (% O_2). Nitrox mixes are displayed with their corresponding MOD (Maximum Operating Depth) and the current PO_2 Alarm setting for the selected gas. Default settings are FO_2 AIR with no PO_2 alarm value for Gas 1, and OFF for Gas 2, 3, and 4. If you save a nitrox mix value for any gas, the i770R will highlight the PO_2 alarm value allowing it to be set. Additionally, the i770R allows for each gas (1 - 4) to have individual PO_2 alarm settings.

NOTE: Once any Gas is set for Nitrox, any other Gas set for AIR will automatically be set to 21%. If a nitrox dive is made, the AIR option will not be displayed as an FO_2 setting until 24 hours elapse after the last dive.

NOTE: When FO_2 is set for AIR, oxygen related data (such as PO_2, % O_2) will not be displayed in Plan Mode. Though these oxygen values will be tracked internally for use in any subsequent nitrox dives.

NOTE: Gas 1 cannot be set to OFF.

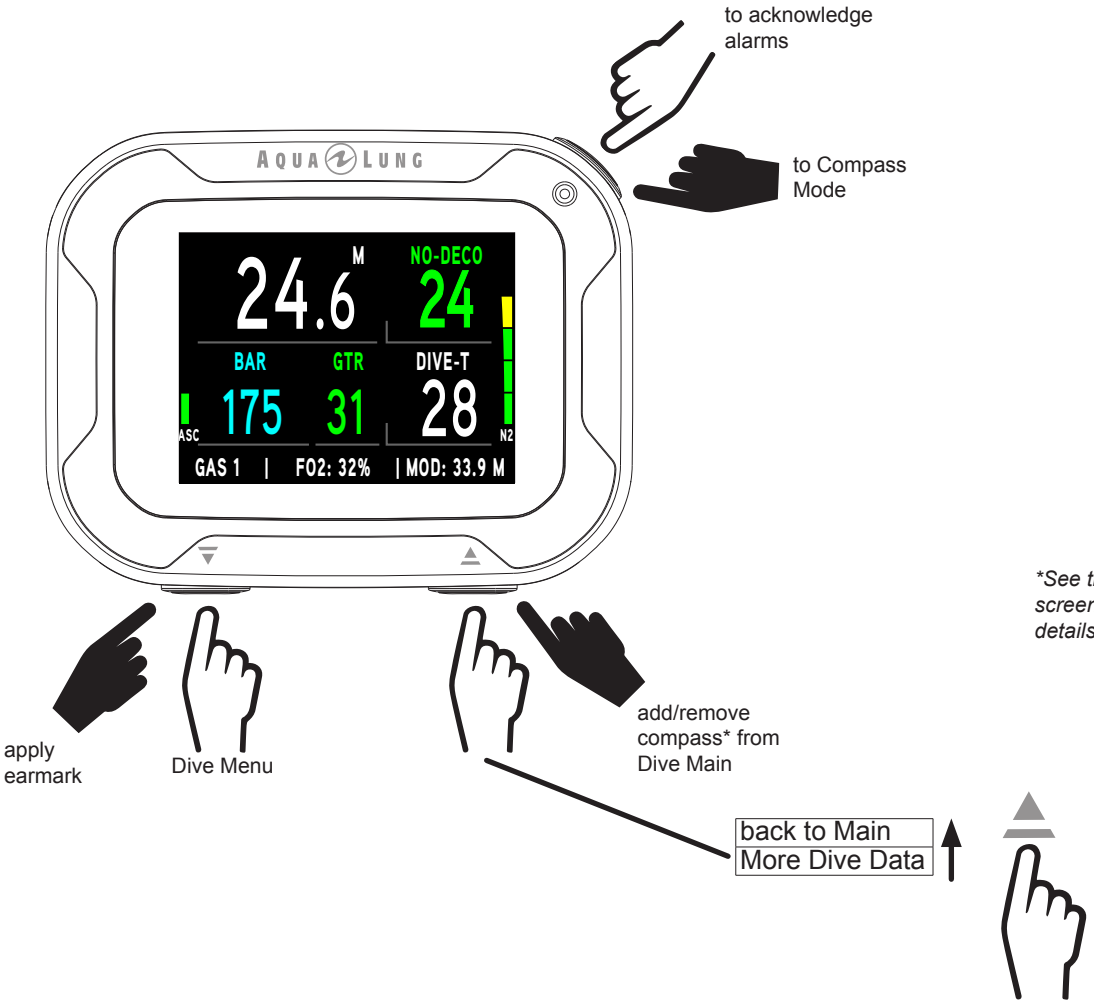



to select
an option
to step
back
AQUA LUNG
SET
GAS 1
GAS 1
GAS 2
GAS 3
GAS 4
FO2
32%
PO2 AL
1.40
MOD: 34 FT
VALUE
▲- INCREASE
▼- DECREASE
⊙- SAVE
set FO2 (% O2) then
PO2 alarm value
(blank if AIR)
Maximum Operating
Depth, blank if AIR
Back to
Dive Main
to decrease
value
to increase
value
to scroll,
increasing
value

DIVE OPERATION

INITIATING A DIVE

With the i770R in Dive Mode, a dive will commence upon descending to 1.5 m (5 ft) for at least 5 seconds. Below is a diagram to help you navigate Dive Mode functions.

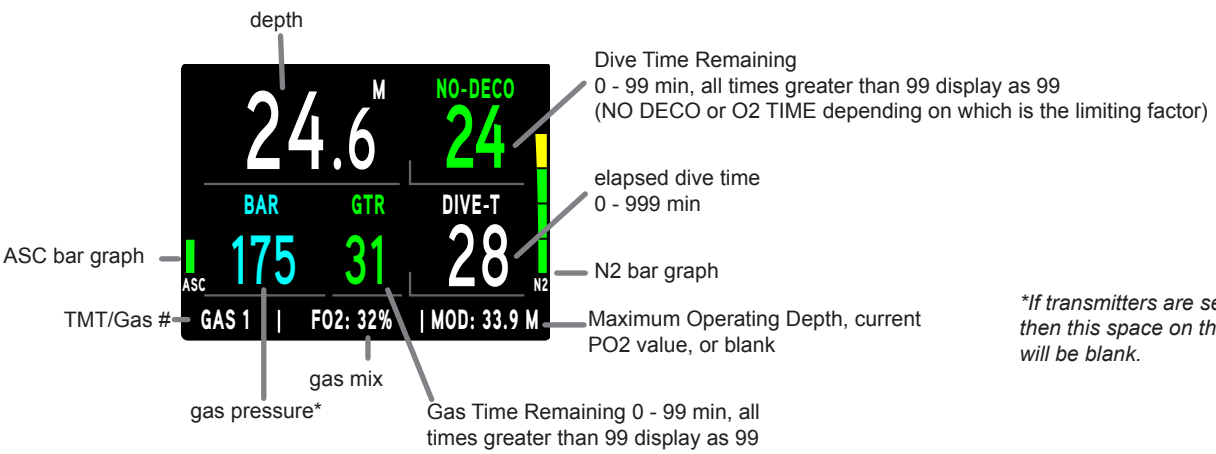


**See the "Compass on Main screen" section p. 90 for further details.*

NO DECOMPRESSION DIVE MAIN

From the Main screen you can see all critical dive parameters. During a dive an audible alarm may sound and the priority of information displayed may change. This is to indicate a safety recommendation, warning, or alarm. The following information in this chapter demonstrates and describes an uneventful dive, in terms of safety. Alarms are described in the Complications section of this chapter.

⚠ **WARNING: Before diving with the i770R take time to familiarize yourself with both normal and alarm conditions of operation.**

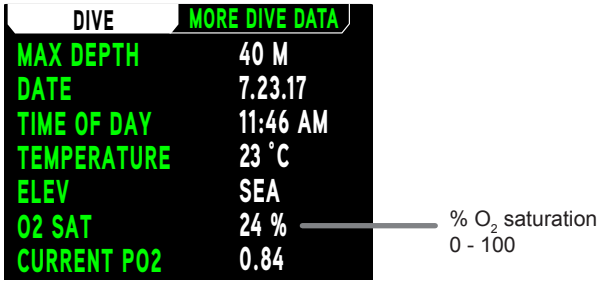


**If transmitters are set to off, then this space on the screen will be blank.*

MORE DIVE DATA

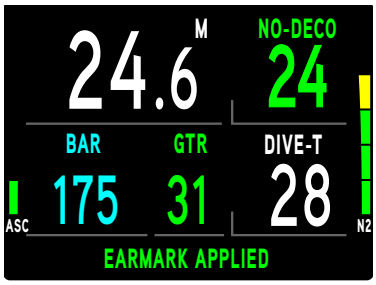
This screen simply displays additional data that is not displayed on the Dive Main screen.

NOTE: The Max Depth and Date fields will be replaced with No Deco and Dive-T respectively during a Deep Stop or Safety Stop.



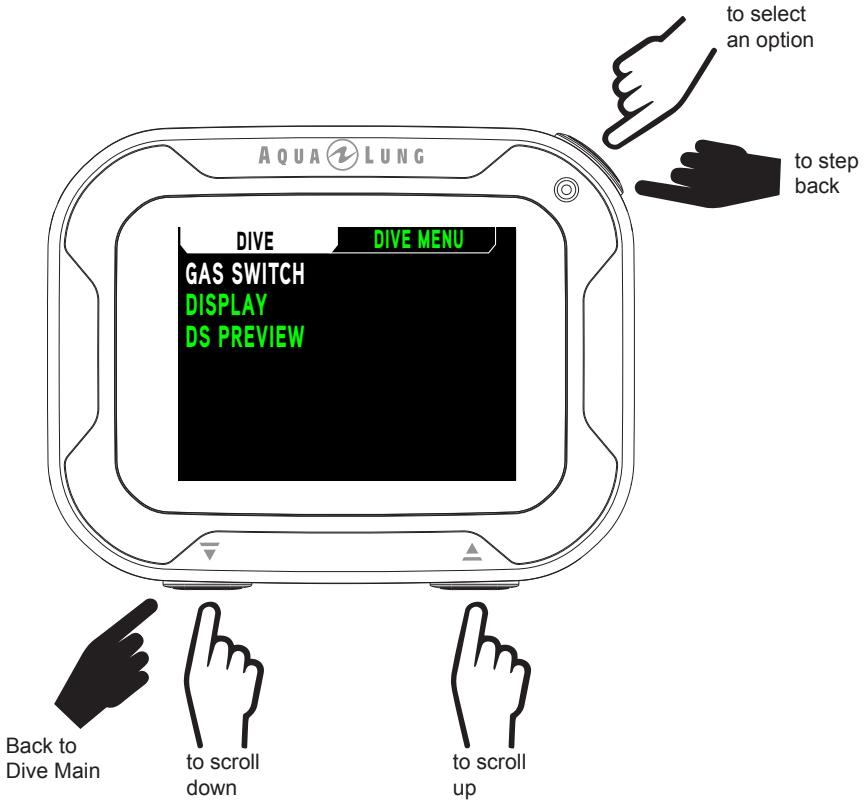
EARMARK

By holding the ▼ (Down) button during a dive you can manually record a data snapshot which can later be accessed using the i770R's download feature. The message "EARMARK APPLIED" will be displayed for 3 seconds as confirmation after an earmark is made.



DIVE MENU

Within the Dive Menu you can switch gases, make changes to the display, and preview the DS (Deep Stop) if triggered.



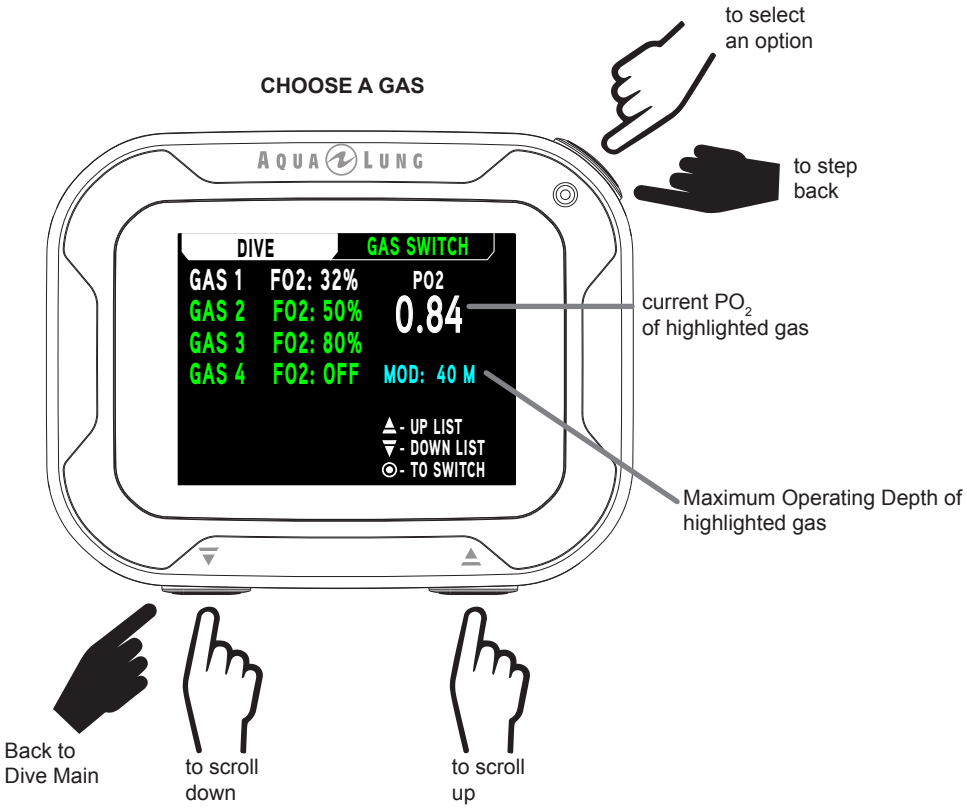
1. GAS (& TRANSMITTER) SWITCH

⚠ WARNINGS:

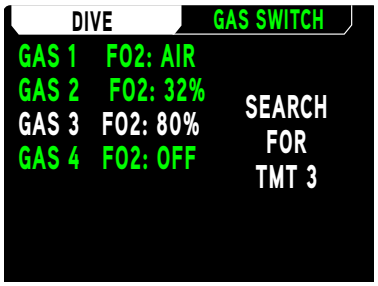
- **Historically, many accidents and near misses have occurred by switching to the wrong gas at the wrong depth. DO NOT attempt gas switch decompression dives without proper education and training to do so from an internationally recognized training agency.**
- **Diving deeper than 39 m (130 ft), will greatly increase your risk of decompression sickness.**
- **Decompression diving is inherently hazardous and greatly increases your risk of decompression sickness, even when performed according to the dive computer's calculations.**
- **Using an i770R is no guarantee of avoiding decompression sickness.**
- **The i770R enters Violation Mode when a situation exceeds its capacity to predict an ascent procedure. These dives represent gross excursions into decompression that are beyond the boundaries and spirit of the i770R's design. If you are following these dive profiles, Aqua Lung advises that you should not use an i770R.**
- **If you exceed certain limits, the i770R will not be able to help you get safely back to the surface. These situations exceed tested limits and can result in loss of some functions for 24 hours after the dive in which a violation occurred.**

OVERVIEW

- All dives begin with GAS 1 and TMT (transmitter) 1.
- The GAS and TMT default to # 1 after 10 minutes on the surface.
- Gas switches can only be made when a Dive Main screen is displayed.
- Gases cannot be switched while on the surface.
- The Gas Switch Menu cannot be accessed during the sounding of alarms.
- If an alarm strikes while in the Gas Switch Menu, the switch operation is terminated (reverting to the Dive Main screen.

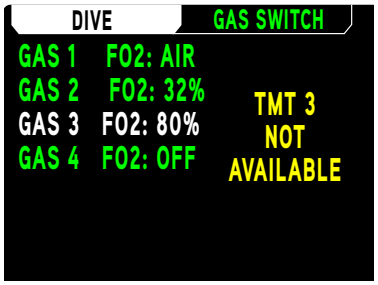


SEARCHING FOR TRANSMITTER



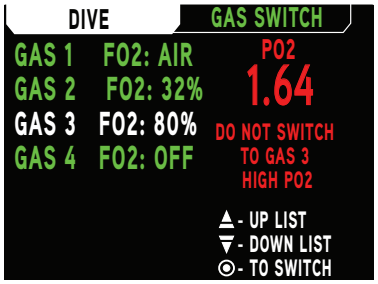
NOTE: If no TMT is active the Searching screen will be bypassed.

If the transmitter is not reporting, a message will be displayed for 10 seconds before switching gas. Afterwards, the i770R will calculate for the gas change but the Dive Main screen will show a lost transmitter signal.



If the current PO_2 value is greater than 1.6, then a warning not to switch will display. The i770R will maintain the current gas without switching. The diver may overide the i770R and force the gas switch by pressing the ◎ (Select) button during the DO NOT SWITCH TO GAS 1 (2,3, or 4) HIGH PO2 message.

⚠ **WARNING: Switching to gases with a PO_2 above 1.6 has a high risk of oxygen poisoning, convulsions, and drowning. Doing so should always be avoided. It is intended as a last resort option because of the likelihood of injury or drowning. Always dive within your training, experience, and skill level.**



2. DISPLAY

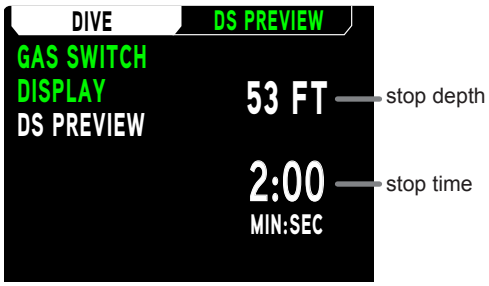
This feature functions the same, minus the Auto Dim setting, as it does on the surface in the Setup Menu described previously on page 16.

Doc. 12-7892-r01 (4/24/18)

3. DS (DEEP STOP) PREVIEW

If Deep Stop was set to ON in the Utilities Menu, the Deep Stop Preview screen is available after exceeding 24 m (80 ft) of depth. The Deep Stop is always at a depth half that of your maximum depth during the dive. This preview screen keeps track of that depth for you.

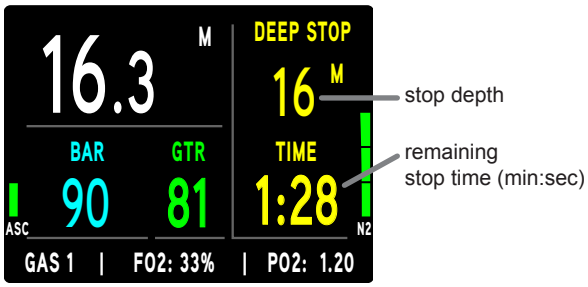
NOTE: If the Deep Stop feature is set OFF, this screen will display the message, "DEEP STOP IS SET OFF." Also, the message, "DEEP STOP TRIGGERS BELOW 24 M (80 FT)" will be displayed on this screen if that depth has not been exceeded yet during the dive.



DEEP STOP MAIN

If triggered, the Deep Stop will activate upon ascending to within 3 m (10 ft) below the calculated Deep Stop depth. The stop time will be displayed and count down to 0:00 as long as you stay within 3 m (10 ft) above or below the stop. See Deep Stop in the Dive Features chapter for further details.

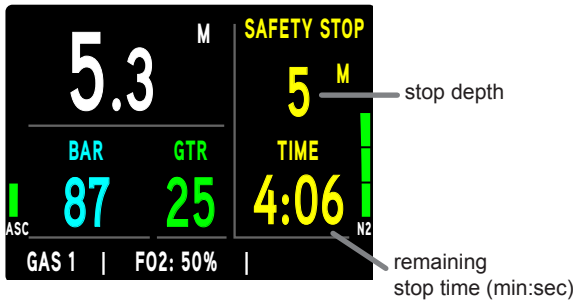
NOTE: The i770R does not penalize for a missed Deep Stop.



SAFETY STOP MAIN

If triggered, the Safety Stop will activate upon ascent to within 1.5 m (5ft) deeper than the Safety Stop depth on a No Decompression dive. The stop time will then countdown to 0:00. See Safety Stop in the Dive Features chapter for further details.

NOTE: The i770R does not penalize for a missed Safety Stop.

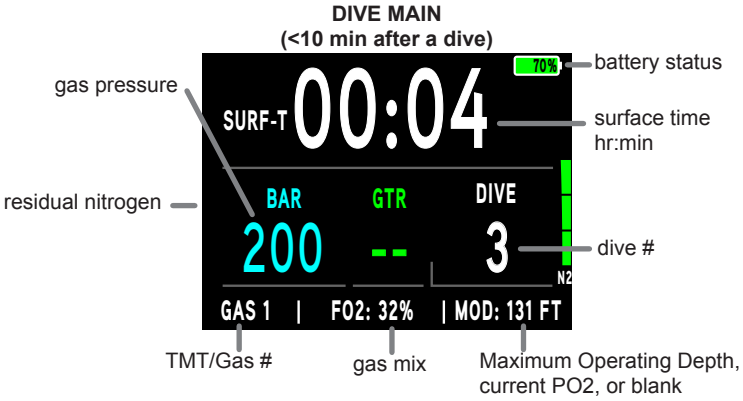


Doc. 12-7892-r01 (4/24/18)

SURFACING

Upon ascending to 0.9 m (3 ft) the i770R transitions to Dive Surface Mode.

NOTE: The i770R requires a 10 minute surface interval to record a subsequent dive as a separate dive in the Log. Otherwise, the dives will be combined and recorded as a single dive in the i770R memory.



COMPLICATIONS

The preceding information has described standard dive operations. Your new i770R is also designed to help you to the surface in less than ideal situations. The following is a description of these situations. Take some time to familiarize yourself with these operations before diving your i770R.

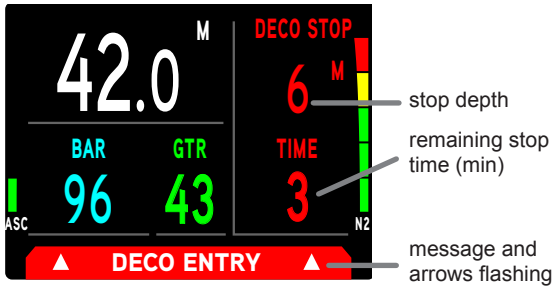
DECOMPRESSION

Decompression (deco) Mode activates when theoretical No Decompression time and depth limits are exceeded. Upon entry into deco, the audible alarm will sound. The full N2 bar Graph and Up Arrows will flash until the audible is silenced.

To fulfill your decompression obligation, you should make a safe controlled ascent to a depth slightly deeper than, or equal to, the required stop depth indicated and decompress for the stop time indicated. The amount of decompression credit time that you receive is dependent on Depth, with slightly less credit given the deeper you are below the Stop Depth indicated. You should stay slightly deeper than the required Stop Depth indicated until the next shallower Stop Depth appears. Then you can slowly ascend to that indicated Stop Depth but not shallower.

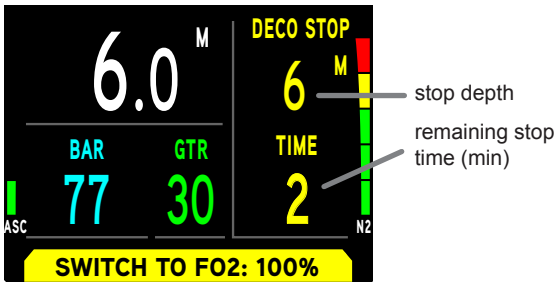
DECOMPRESSION ENTRY

Upon entry into decompression (deco) the audible alarm will sound until the audible is silenced. The message DECO ENTRY, up arrow, and full N2 Bar Graph icons will flash. Additionally, the stop depth and stop time values will be displayed. TTS (Time To Surface) and DIVE-T (Dive-Time) can be seen on the Deco More Dive Data screen during decompression by pressing the ▲ (UP) button.



GAS SWITCH WARNING

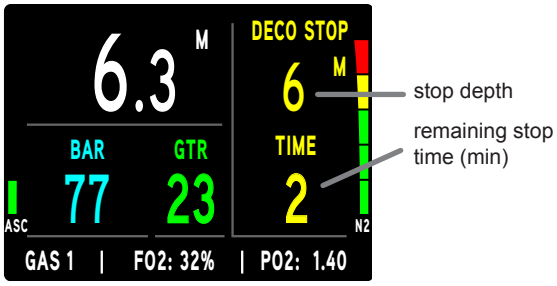
If multiple gasses are set on and the current gas is not the best gas when approaching the decompression stop zone, the i770R will warn you to switch gases. You must confirm the gas switch by pressing the ◎ (Select) button. If the gas switch is not confirmed within 30 seconds, no switch will be made. Though you may still manually switch gases at any time throughout the dive by using the Gas Switch Menu.



Doc. 12-7892-r01 (4/24/18)

DECOMPRESSION STOP MAIN

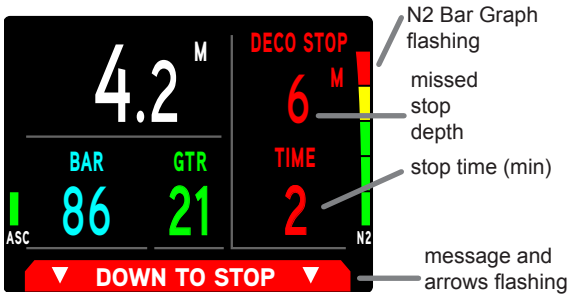
Decompression (deco) Stop Main will display upon ascending to within 3 m (10 ft) below the Deco Stop depth. The stop time and stop depth will change to yellow. While Deco Stop Main is displayed, you may access the Deco More Dive Data screen by pressing the ▲ (UP) button. It is similar to the Dive More Dive Data screen.



CONDITIONAL VIOLATION (CV)

Upon ascent above the required Decompression (deco) Stop depth, operation will enter Conditional Violation during which time no off gassing credit will be given. The Audible alarm will sound. Additionally, the DOWN TO STOP message will flash until the audible alarm is silenced.

- The down arrows continues to flash until descending below the required Stop Depth (within stop zone). At such time, the DOWN TO STOP and down arrows will be removed and the deco stop and deco stop time will be yellow.
- If you descend deeper than the required Decompression Stop before 5 minutes elapse, Decompression operation will continue with no off gassing credit given for time above the Stop. Instead, for each minute above the Stop 1½ minutes of penalty time will be added to the required Stop Time.
- The combined penalty time and original decompression time will be displayed as the new stop time upon descending to the stop depth. The N2 Bar Graph and stop time will start to recede into the No Decompression zone. Operation will revert to No Decompression Mode once all the decompression is cleared.



Doc. 12-7892-r01 (4/24/18)

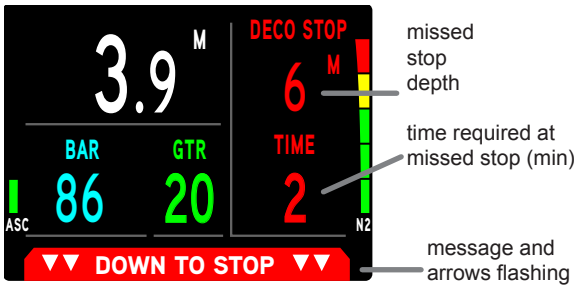
DELAYED VIOLATION 1 (DV 1)

If you remain shallower than a Deco Stop Depth for more than 5 minutes, operation will enter DV1* which is a continuation of CV with penalty time still being added. Again, the audible alarm will sound and the DOWN TO STOP message will flash until the audible alarm is silenced

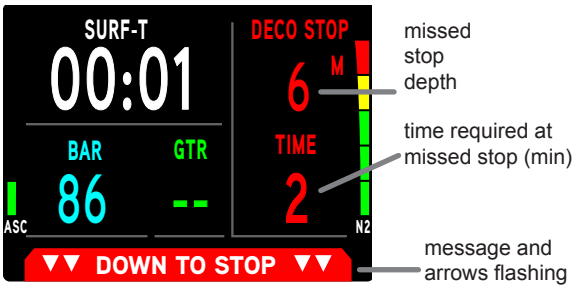
**The difference from Conditional Violation is that the i770R will now enter Violation Gauge Mode 5 minutes after surfacing regardless of clearing the decompression stops before surfacing.*

- Down arrows and DOWN TO STOP message continue to flash until descending below the required Stop Depth, then the full stop graphic will be on solid.
- If the DV1 status is ignored, the i770R will enter DV1 Surface Mode for 5 minutes upon surfacing from the dive. Down arrows and Deco Stop depth/time will flash. After 5 minutes on the surface in DV1 Mode, the unit will enter VGM (Violation Gauge Mode).

DV1 DIVE MAIN

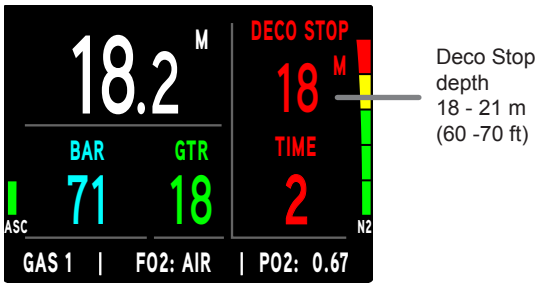


DV1 < 5 MIN ON SURFACE



DELAYED VIOLATION 2 (DV 2)

If the calculated Decompression obligation requires a Stop Depth between 18 m (60 ft) and 21 m (70 ft), operation will enter DV2. The audible alarm will sound. Additionally, the full N2 Bar Graph will flash until the audible is silenced. The i770R will advance to Violation Gauge Mode (see below section) if the required decompression stop depth exceeds 21 m (70 ft).



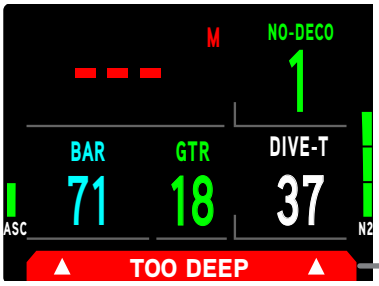
DELAYED VIOLATION 3 (DV 3)

If you descend deeper than the maximum functional depth*, the audible alarm will sound. Also, the up arrows, and TOO DEEP message will flash. Only dashes will display for Current Depth signifying that you are too deep. The DTR (NO-DECO or O2 TIME) time will continue to display until the i770R's calculation range is exceeded.

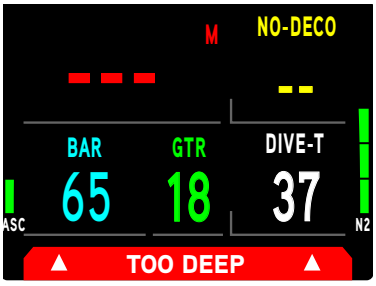
**The maximum functional depth (Dive/Gauge/Free = 100 m / 330 ft) is the depth at which the i770R can properly perform all functions.*

Upon ascending above the maximum functional depth, current depth will be restored. However, the log for that dive will display dashes for max depth.

DV3 (data accurate)

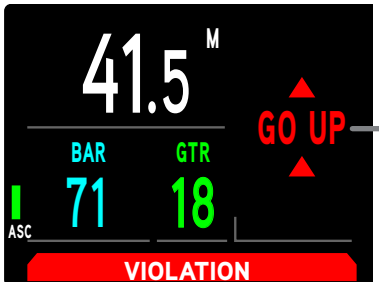


DV3 (calculation range exceeded)



VIOLATION GAUGE MODE (VGM) DURING A DIVE

During Dive Mode dives, operation will enter VGM when Decompression requires a Stop Depth greater than 21 m (70 ft). It will also enter VGM if Deco is activated during a dive in Free Mode, described later. Operation would then continue in VGM during the remainder of that dive and for 24 hours after surfacing. VGM turns the i770R into a digital instrument without any decompression or oxygen related calculations or displays. Upon activation of VGM, the audible alarm will sound. The message VIOLATION and GO UP with up arrows will flash. After the audible alarm becomes silent (10 seconds), the NO DECO (No Decompression) and N2 Bar Graph will not display for the rest of the dive.

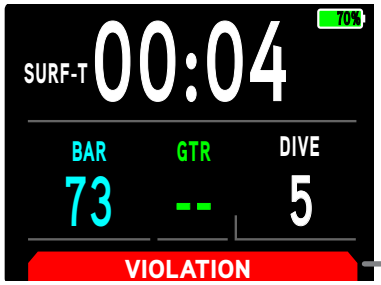


VIOLATION GAUGE MODE (VGM) ON THE SURFACE

The message VIOLATION is displayed until 24 hours elapse with no dives. During that 24 hours, All menus and screens shall be available except items associated with nitrogen and oxygen calculations.

- The Fly countdown timer provides the time remaining before normal operation can resume with full features and functions.

- In the event that a dive is made during the 24 hour lockout period, another full 24 hour surface interval must then be served before all functions are restored.



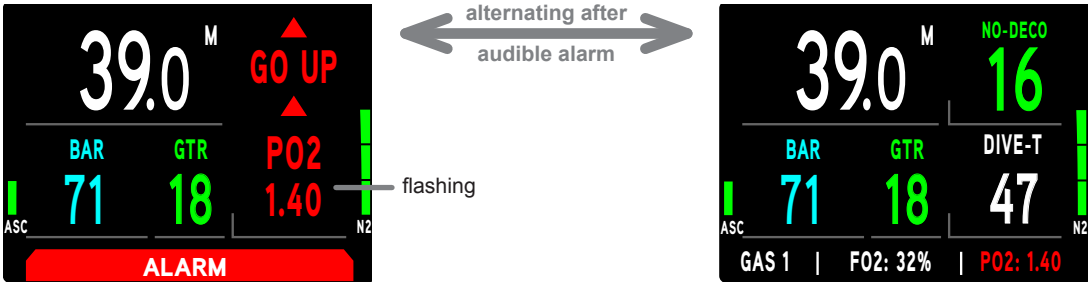
Doc. 12-7892-r01 (4/24/18)

HIGH PO_2

Alarm >> at Set Point value, except in Deco then at >1.60 only

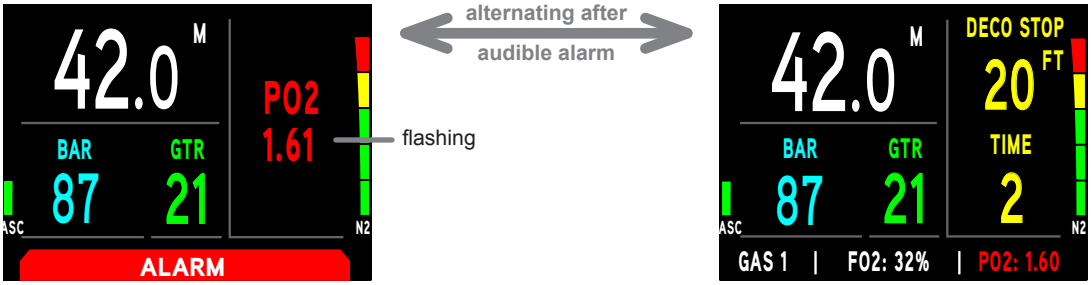
Alarm

If PO_2 continues to increase and reaches the alarm set point, the audible alarm sounds again. The PO_2 value, GO UP message, and up arrows will flash in place of Dive Time Remaining (O2 TIME, NO-DECO) and DIVE-T until after the audible alarm. At which time the information will alternate. This will continue until PO_2 decreases below the alarm set point.



PO_2 During Decompression

The PO_2 alarm setting does not apply when in Decompression. If PO_2 exceeds 1.60 while at a Decompression Stop, the PO_2 value with icon will will flash in place of Dive Time Remaining (O2 TIME, NO-DECO) and DIVE-T until after the audible alarm. At which time the information will alternate. This will continue until the PO_2 value decreases below 1.60.

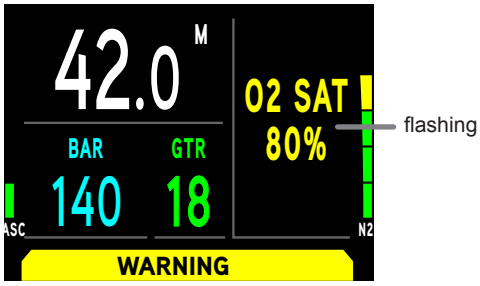


HIGH O2 SAT (OXYGEN SATURATION)

Warning >> at 80 to 99% (240 OTU)
Alarm >> at 100% (300 OTU)

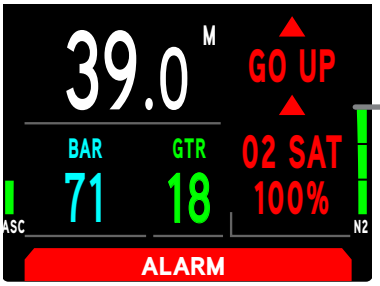
Warning

When O_2 reaches the Warning Level, the audible alarm sounds and the O2 SAT (saturation) value will flash in place of Dive Time Remaining (O2 TIME, NO-DECO) and DIVE-T. They will be restored when the audible alarm is silenced.



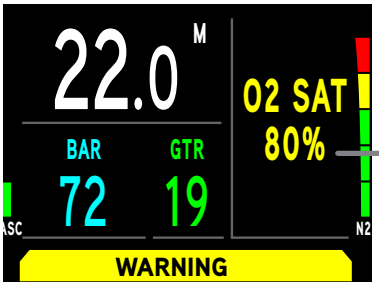
Alarm

If O2 SAT reaches the Alarm level, the audible alarm sounds. The GO UP message, up arrows, and the O2 SAT value will flash in place of Dive Time Remaining (O2 TIME, NO-DECO) and DIVE-T. After the audible alarm the GO UP message, up arrows, and the O2 SAT value will alternate with Dive Time Remaining (O2 TIME, NO-DECO) and DIVE-T.



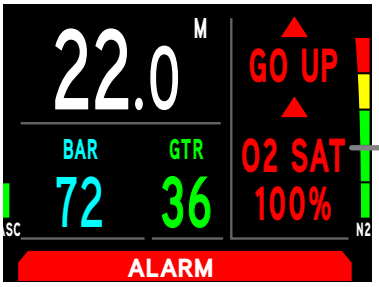
Warning During Decompression

When O2 SAT reaches the Warning Level, the audible alarm sounds and the O2 SAT value will flash in place of Dive Time Remaining (O2 TIME, NO-DECO) and DIVE-T. When the audible alarm is silenced, the standard Decompression Dive screen is restored.



Alarm During Decompression

If O2 SAT reaches the Alarm level, the audible alarm sounds and the O2 SAT 100%, up arrows, and alarm message will flash in place of deco stop depth/time. When the audible alarm is silenced, the message O2 SAT 100% and up arrows will alternate with decompression stop/time.



Doc. 12-7892-r01 (4/24/18)

Alarm On Surface

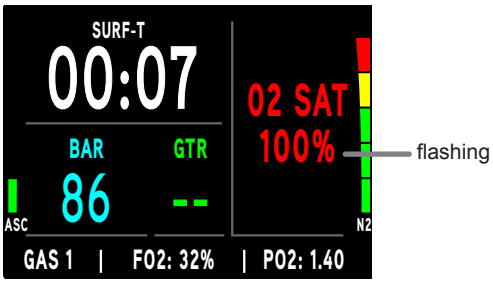
O2 SAT is 100% upon surfacing while in No Decompression:

• O2 SAT 100% will flash until the O2 SAT value decreases below 100%.

The diver surfaces due to 100% O2 while in Deco:

• If O2 SAT becomes less than100% during the first 5 min on the surface, the Delayed Violation 1 Main screen will be displayed.

• If O2 SAT is still 100% after 5 min, operation is to revert to Violation Gauge Mode for 24 hours.

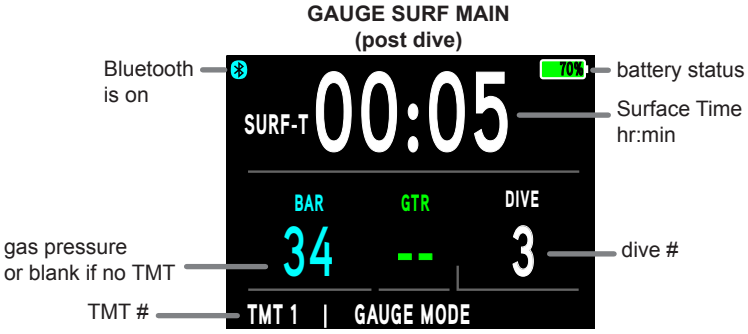


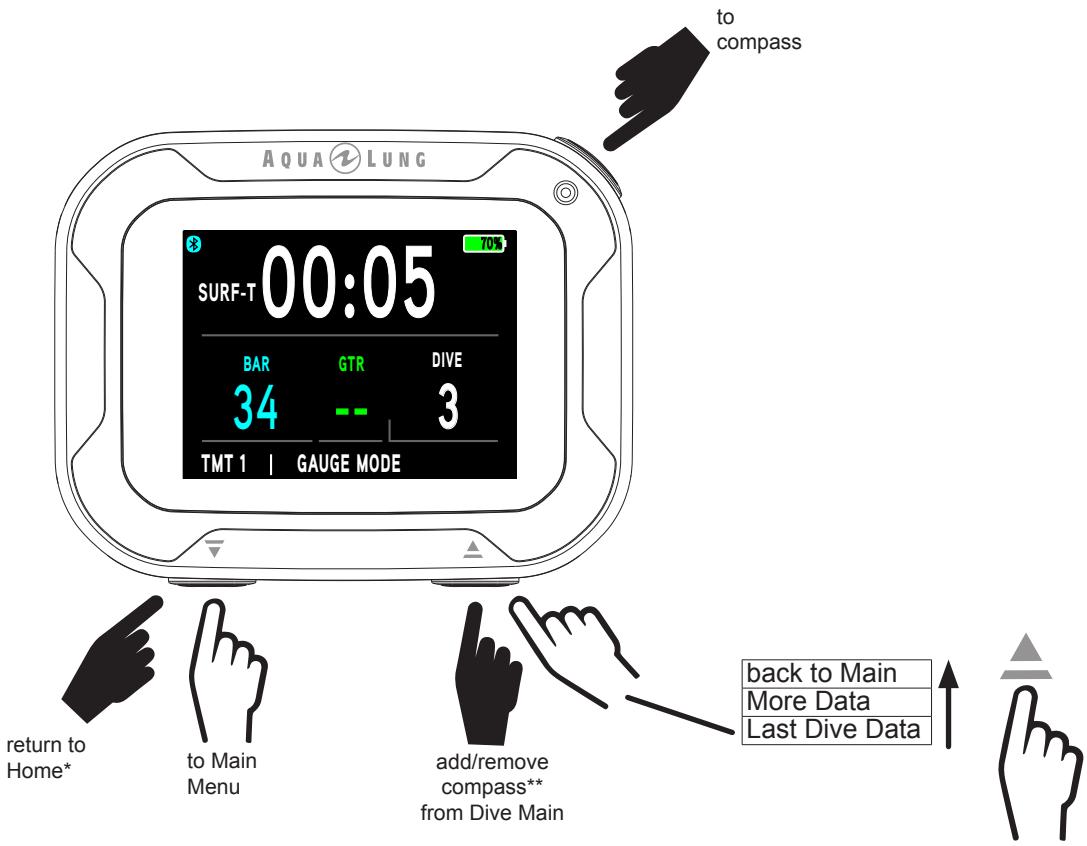
GAUGE MODE

Doc. 12-7892-r01 (4/24/18)

ON THE SURFACE BEFORE A DIVE

Gauge Surface Main is nearly identical to Dive Mode. Unlike Dive Mode, there will be no N2 tissue saturation or gas mix values displayed.



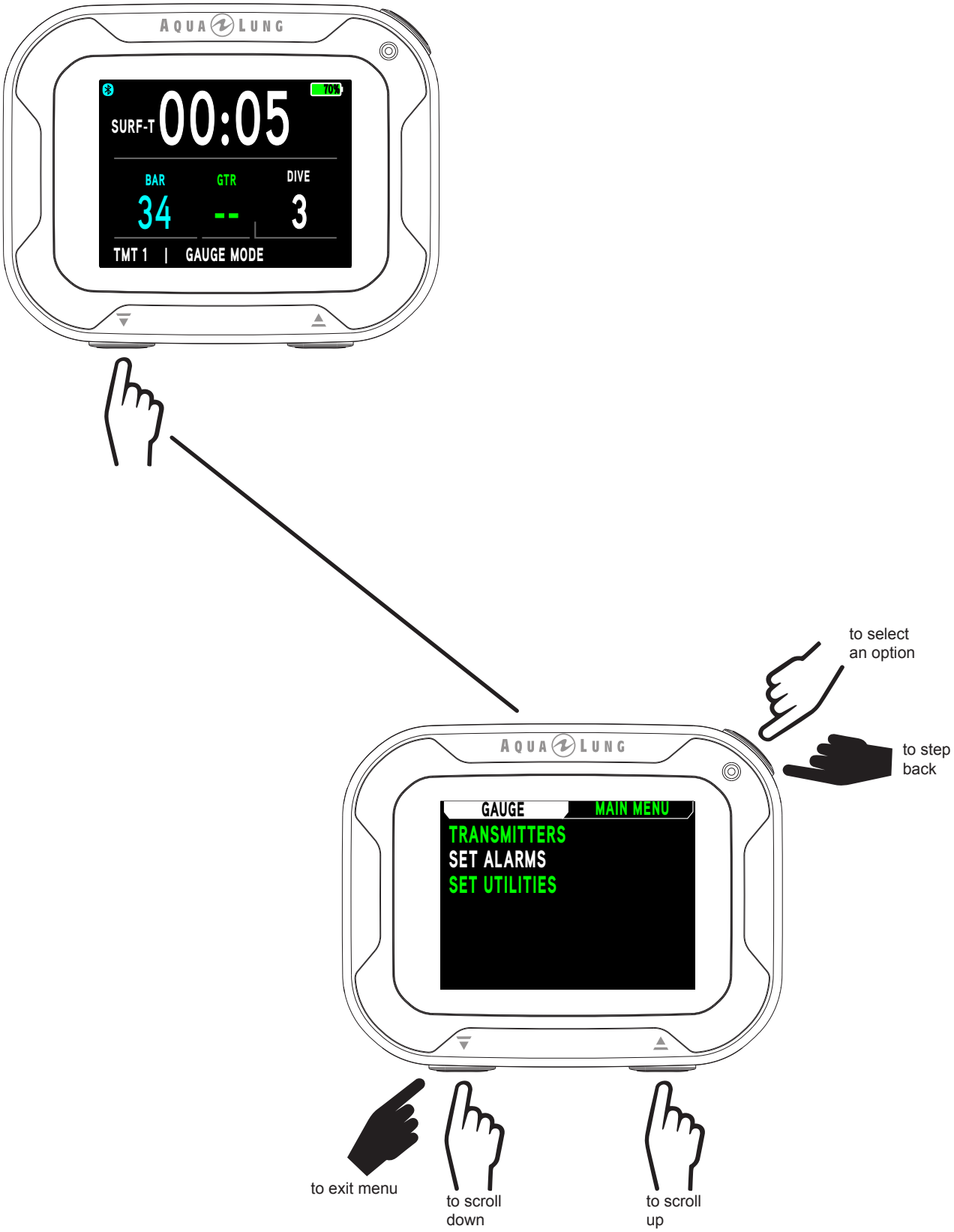


**This function is blocked during the first 10 minutes after a dive.*

***See the "Compass On Main Screen" section p. 90 for further details.*

GAUGE SURF MAIN MENU

To change transmitter, alarm or other settings you must navigate through the Gauge Menu. Enter the menu by pressing ▼ (Down) button. Press the ◎ (Select) button to choose options from the Gauge Menu.

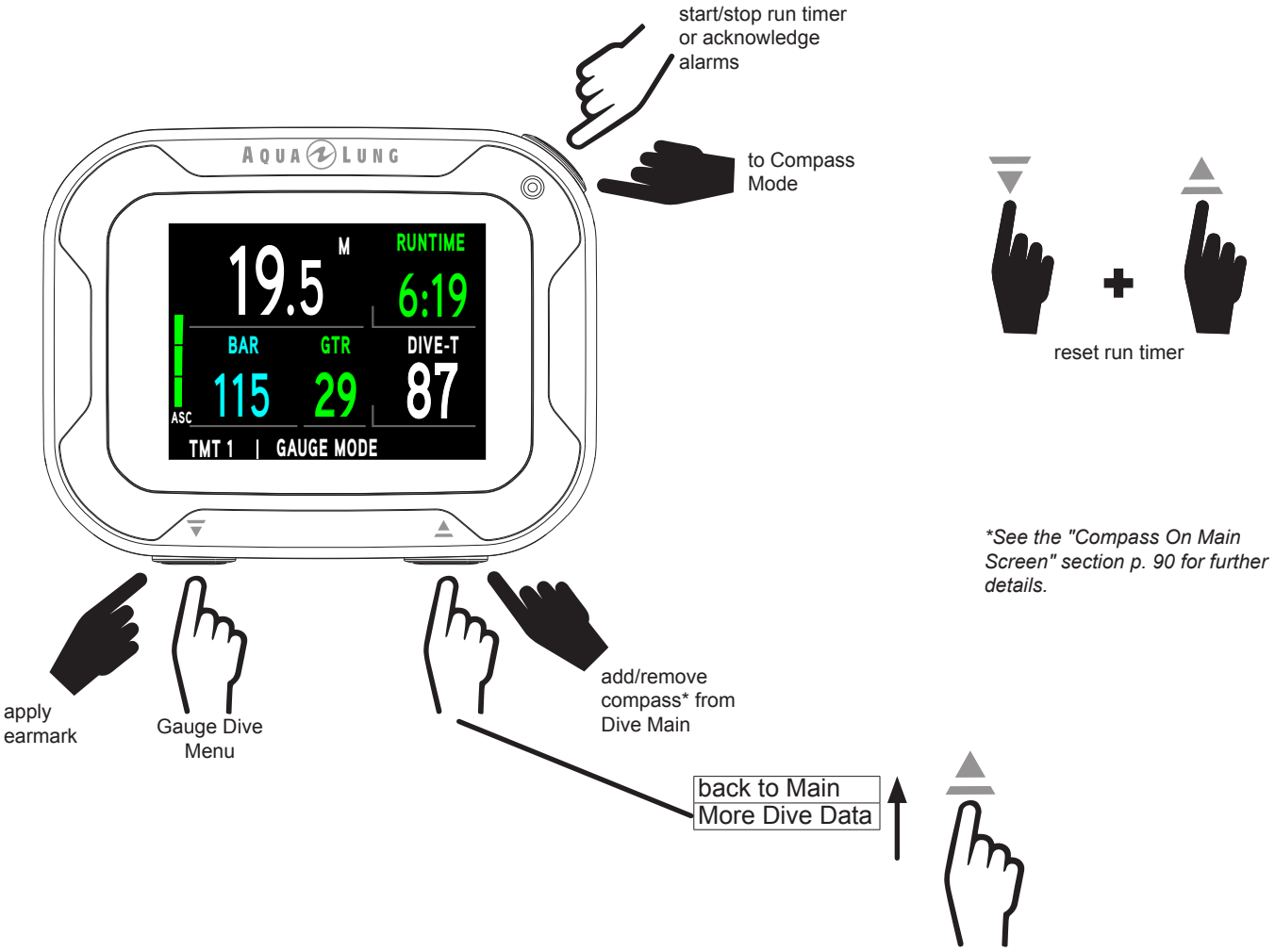


NOTE: Gauge Surface Data (alternate) screens and Menu options are similar to those described previously for Dive Mode. See the Dive Surface Mode chapter for further details.

Doc. 12-7892-r01 (4/24/18)

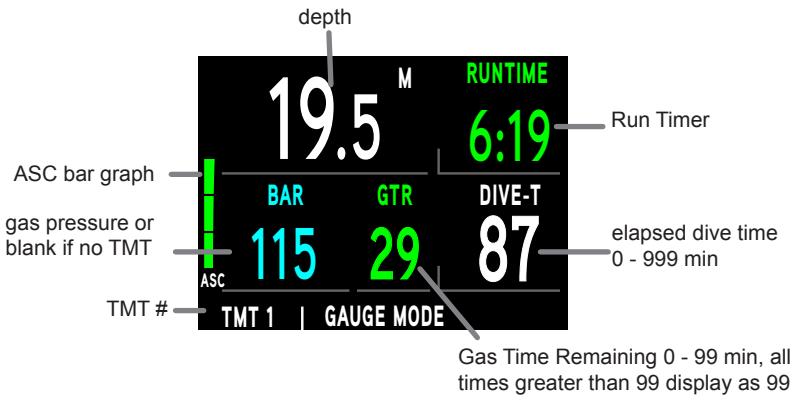
INITIATING A DIVE

With the i770R in Gauge Mode, a dive will commence upon descending to 1.5 m (5 ft) for longer than 5 seconds. Below is a diagram to help you navigate Gauge Dive Mode functions. The dive will end and revert to Surface Mode upon ascent to 0.9 m (3 ft) of depth for at least 1 second.



GAUGE DIVE MAIN

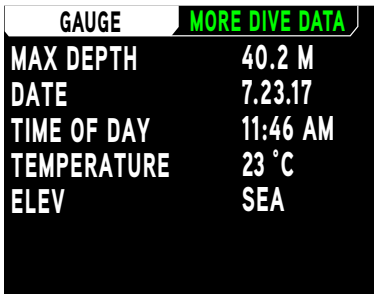
The Gauge Dive Main provides basic information including ascent rate, depth, run time, dive time, gas pressure, and GTR (gas time remaining).



Doc. 12-7892-r01 (4/24/18)

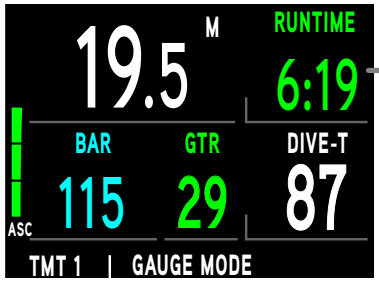
GAUGE MORE DIVE DATA

This screen simply displays additional data that is not displayed on the Dive Main screen.



RUN TIMER

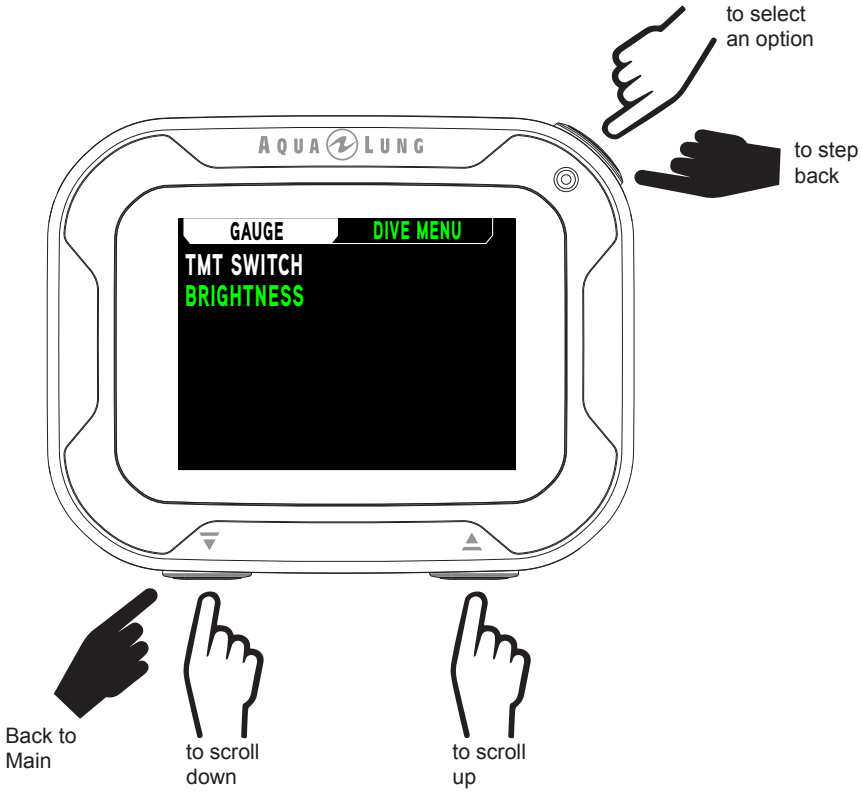
The Run Timer is started and stopped by pressing the ◎ (Select) button. It can be reset by holding the ▼ (Down) and ▲ (UP) buttons together.



Run Timer, 0:00 up to 99:59 (min:sec)

GAUGE DIVE MENU

Within the Gauge Dive Menu you can switch TMT (transmitters) or adjust the screen brightness.



NOTE: TMT Switch and Brightness Menu options are similar to those described previously for Gas (& Transmitter) Switch in Dive Mode (p. 56) and Brightness (p. 17) settings.

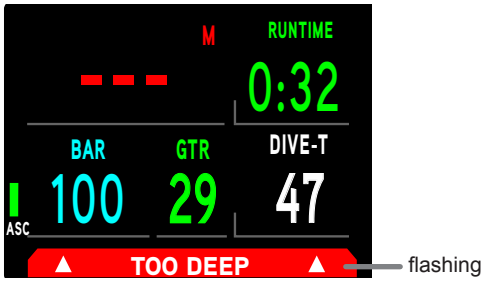
Doc. 12-7892-r01 (4/24/18)

DELAYED VIOLATION 3 (DV3)

If you descend deeper than the maximum functional depth*, the audible alarm will sound. At the same time, the TOO DEEP message with up arrows will flash and depth will only indicate dashes signifying that you are too deep. The max depth on the Alt screen will also be represented by dashes.

**The maximum functional depth (Dive/Gauge/Free = 100 m/330 ft) is the depth at which the i770R can properly perform all functions.*

Upon ascending above the maximum functional depth, current depth will be restored, however, max depth in the More Data screen will continue to be displayed as dashes for the remainder of that dive. The Log for that dive will also display dashes for max depth.



FREE MODE

FREE DIVE MODE DETAILS

- Although breathing apparatus is not utilized for free dive activities, nitrogen tissue loading remains a factor. Nitrogen loading is calculated based upon a fixed FO_2 of Air.
- Since a user has the option of alternating between SCUBA and free dive activities within a 24 hour period, nitrogen calculations and the displayed value of No Decompression Dive Time Remaining are carried over from one operating mode to the other, which permits the user to maintain awareness of nitrogen absorption and off-gassing status.
- The mathematical models currently used in the i770R are based on no decompression/decompression multilevel repetitive dive schedules.
- These algorithms do not take into account the physiological changes associated with the high pressures that competitive type free diving can expose a diver to.

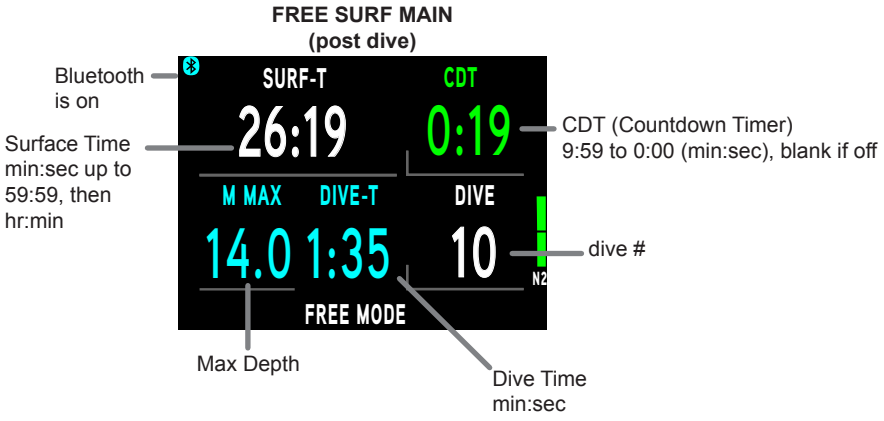
⚠ WARNINGS:

- **Ensure that you know which operating mode is selected (DIVE, GAUGE, or FREE) prior to commencing any dive.**
- **Conducting Free dives within a 24 hour period after conducting SCUBA dives, combined with the effects of multiple rapid free dive ascents, increases your risk of decompression sickness. Such activities may result in accelerated entry into decompression which could cause serious injury or death.**
- **Combining competitive type free dive activities that involve multiple descents/ascents with activities utilizing SCUBA during the same 24 hour period is not recommended. Presently, there is no data relating to such activities.**
- **It is highly recommended that anyone planning to become involved in competitive type free dive activities obtain proper instruction and training from a recognized free diving trainer. It is imperative that the physiological affects be understood and the diver is physically prepared.**

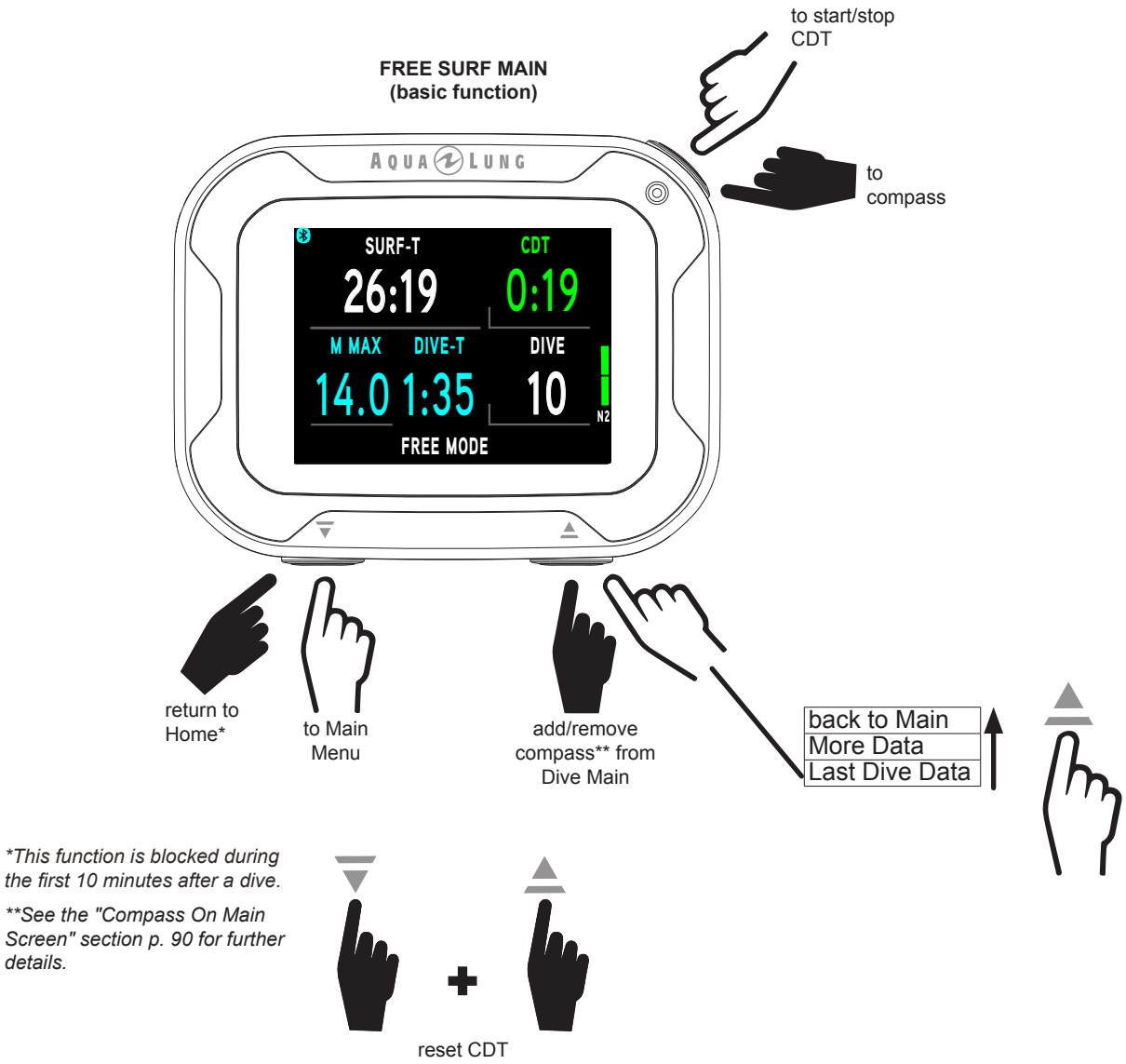
Doc. 12-7892-r01 (4/24/18)

ON THE SURFACE BEFORE A DIVE

The Free Mode Surface screen is similar to the Dive Mode screen. If the CDT (Countdown Timer) is on, it is displayed in the upper right of the screen. Dive-T (Dive Time) and M Max (or FT Max) for the previous dive is displayed during the first minute after surfacing. Otherwise, dashes are displayed for their values.



NOTE: Battery status does not display on the Free Dive Mode Surface screen unless there is a Battery Warning or Alarm. Battery status may be confirmed by returning to the Home Menu.



**This function is blocked during the first 10 minutes after a dive.*

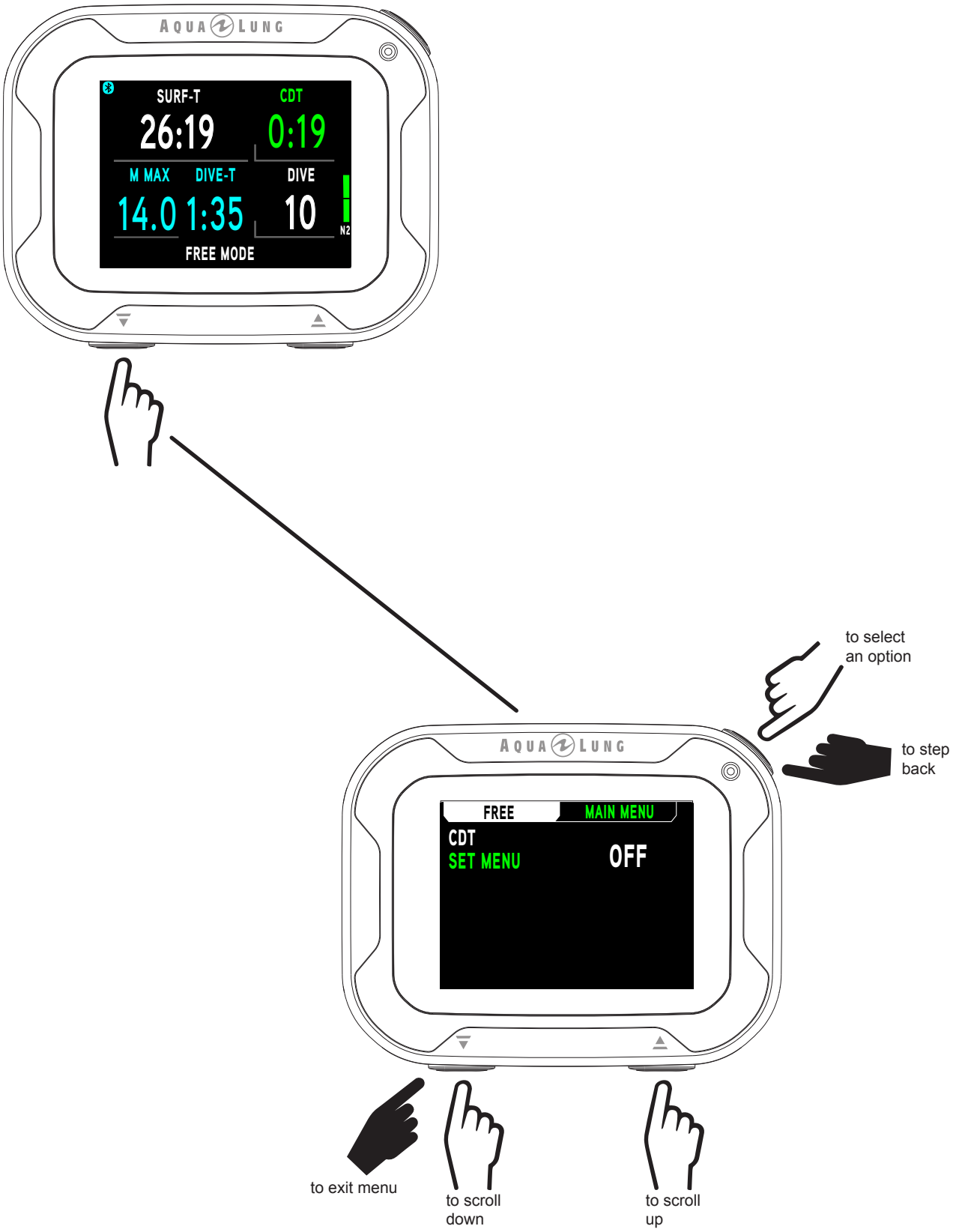
***See the "Compass On Main Screen" section p. 90 for further details.*

NOTE: The Free Data (alternate) screens are similar to are similar to those described previously for Dive Mode. See the Dive Surface Mode chapter for further details.

Doc. 12-7892-r01 (4/24/18)

FREE SURF MAIN MENU

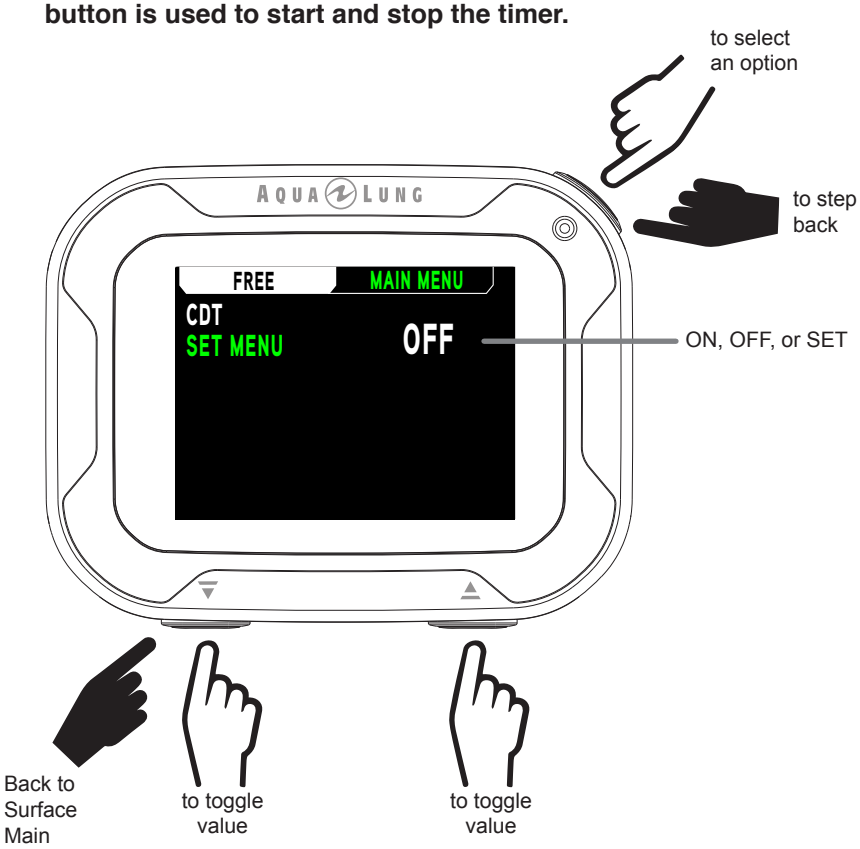
To view and adjust i770R Free Dive settings you must navigate through the Free Main Menu. Enter the menu by pressing the ▼ (Down) button. Main Menu screens and options will be discussed in the order they appear in the menu.

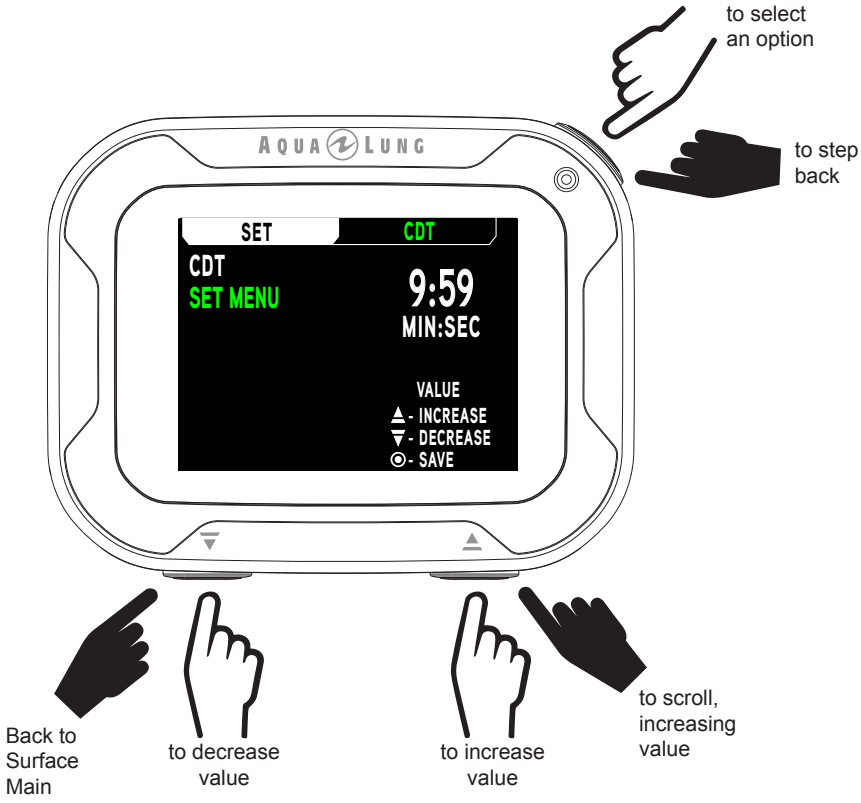


CDT (COUNTDOWN TIMER) SETUP

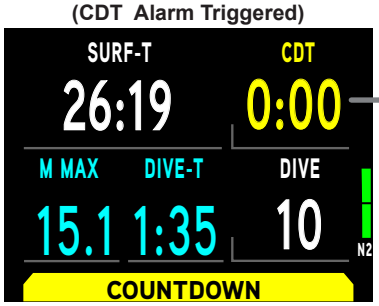
This screen allows you to turn the CDT ON, OFF, or to SET the CDT time from 0:01 - 9:59 (min:sec).

NOTE: Setting the CDT to on does not start the countdown. While on the Main screen, the (Select) button is used to start and stop the timer.





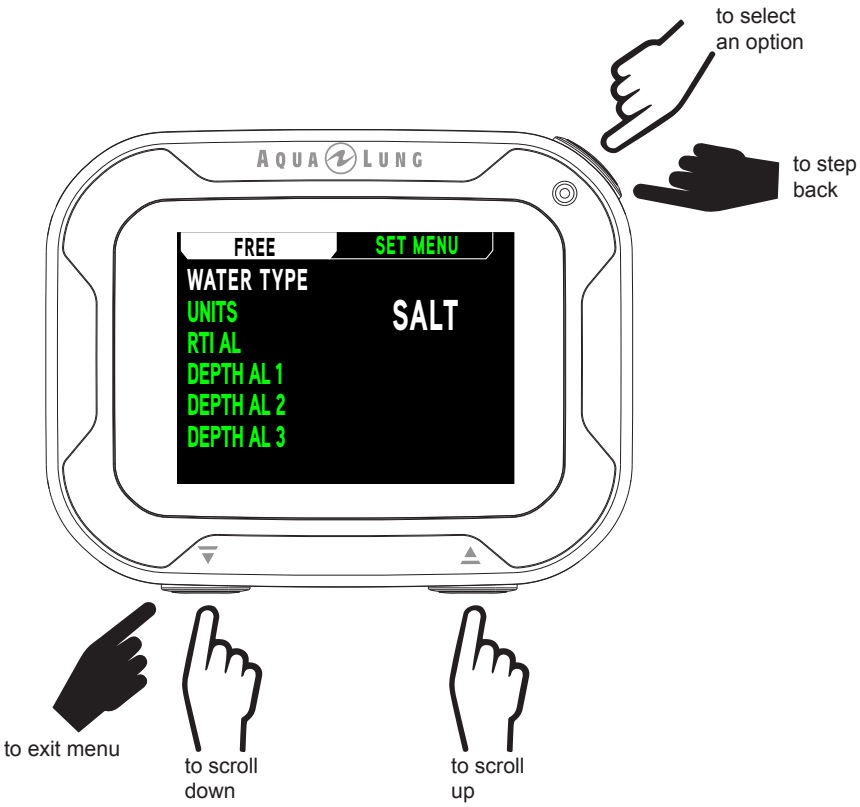
FREE DIVE MAIN
(CDT Alarm Triggered)



Doc. 12-7892-r01 (4/24/18)

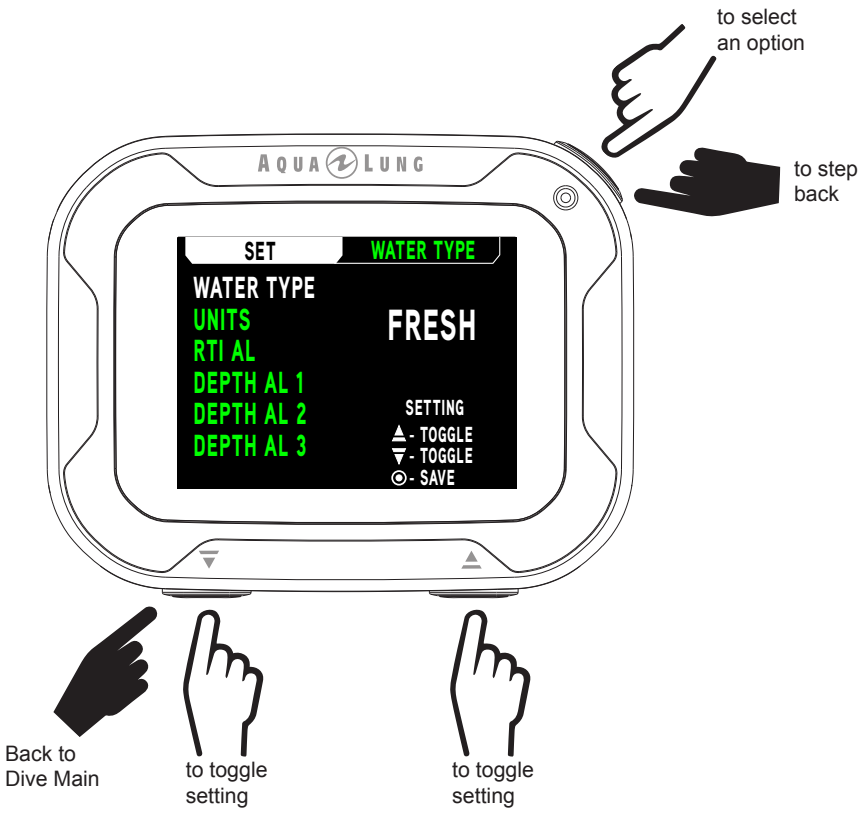
SET MENU

Within the Set Menu you can customize the following operational functions.



1. WATER TYPE

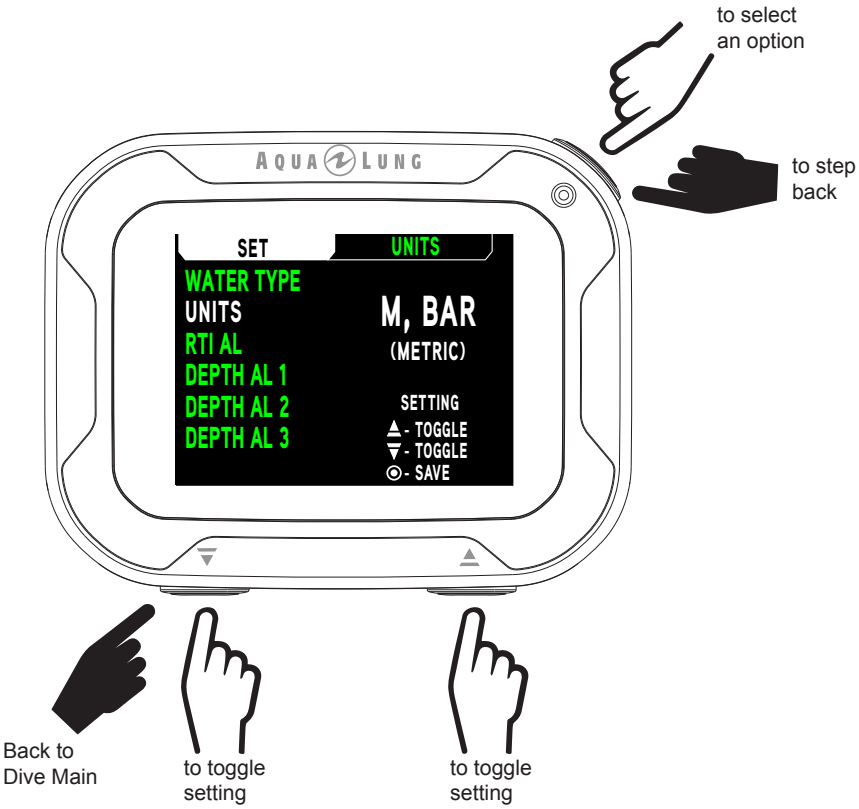
Water Type feature allows you to set SALT or FRESH water environment for accurate depth calculations.



Doc. 12-7892-r01 (4/24/18)

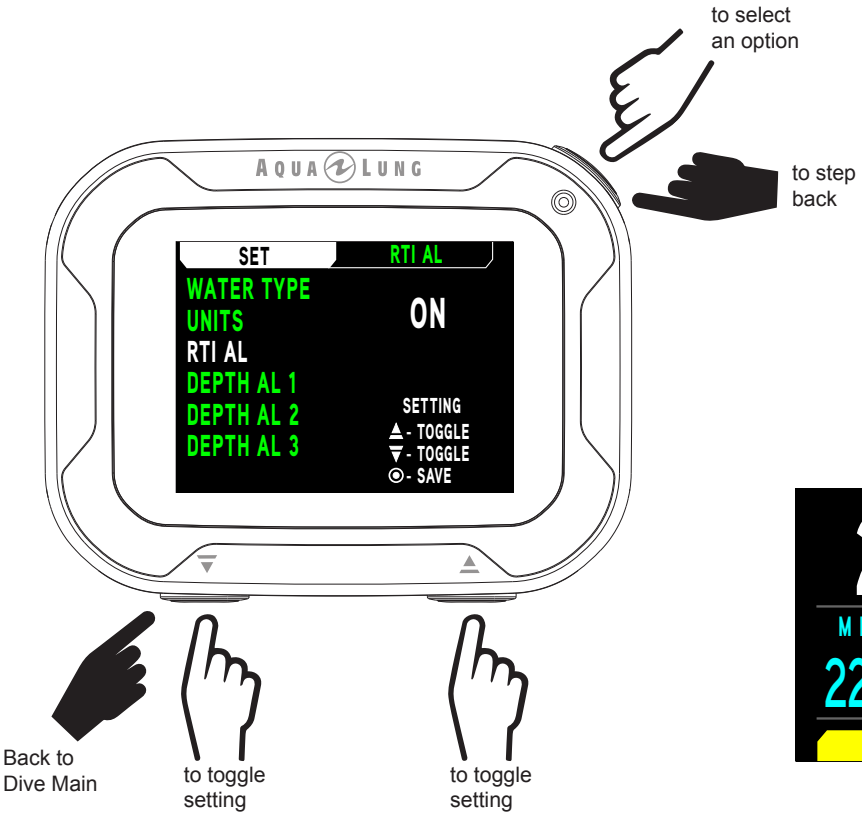
2. UNITS

The Units feature allows you to select whether Metric (M, BAR) or Imperial (FT, PSI) units of measure will be displayed.

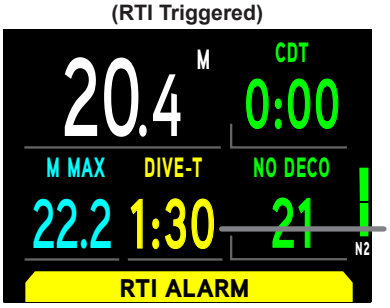


3. RTI AL (Repeating Time Interval Alarm)

The RTI Alarm allows you to set an audible alarm to go off repeatedly every 30 seconds during a dive.



FREE DIVE MAIN (RTI Triggered)

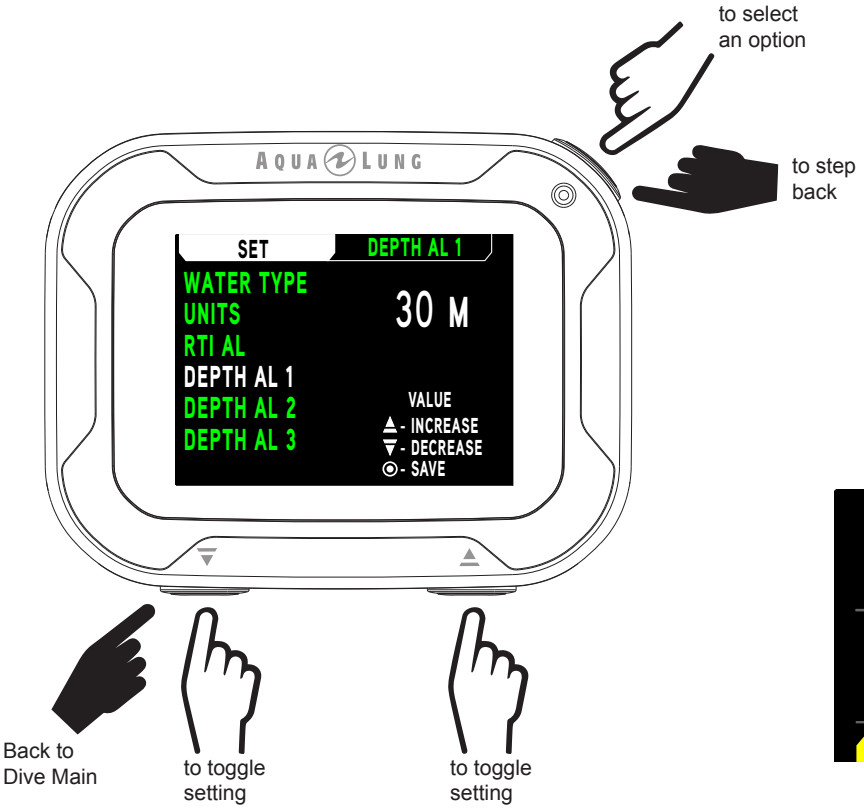


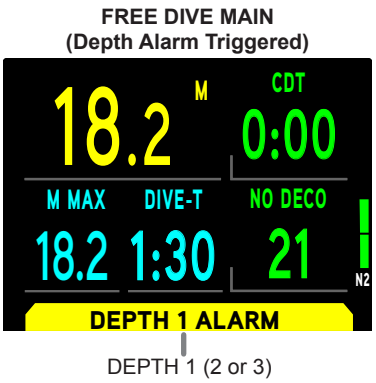
Doc. 12-7892-r01 (4/24/18)

4. DEPTH AL (Alarm)

There are 3 Free Depth Alarms that can be set at progressively deeper depths, in intervals of 1 m (10 ft).

NOTE: Each successive Depth Alarm can only be set deeper than the Depth Alarm that precedes it. For example: If Depth Alarm 1 is set for 30 m then Depth Alarm 2 settings start at 31 m.

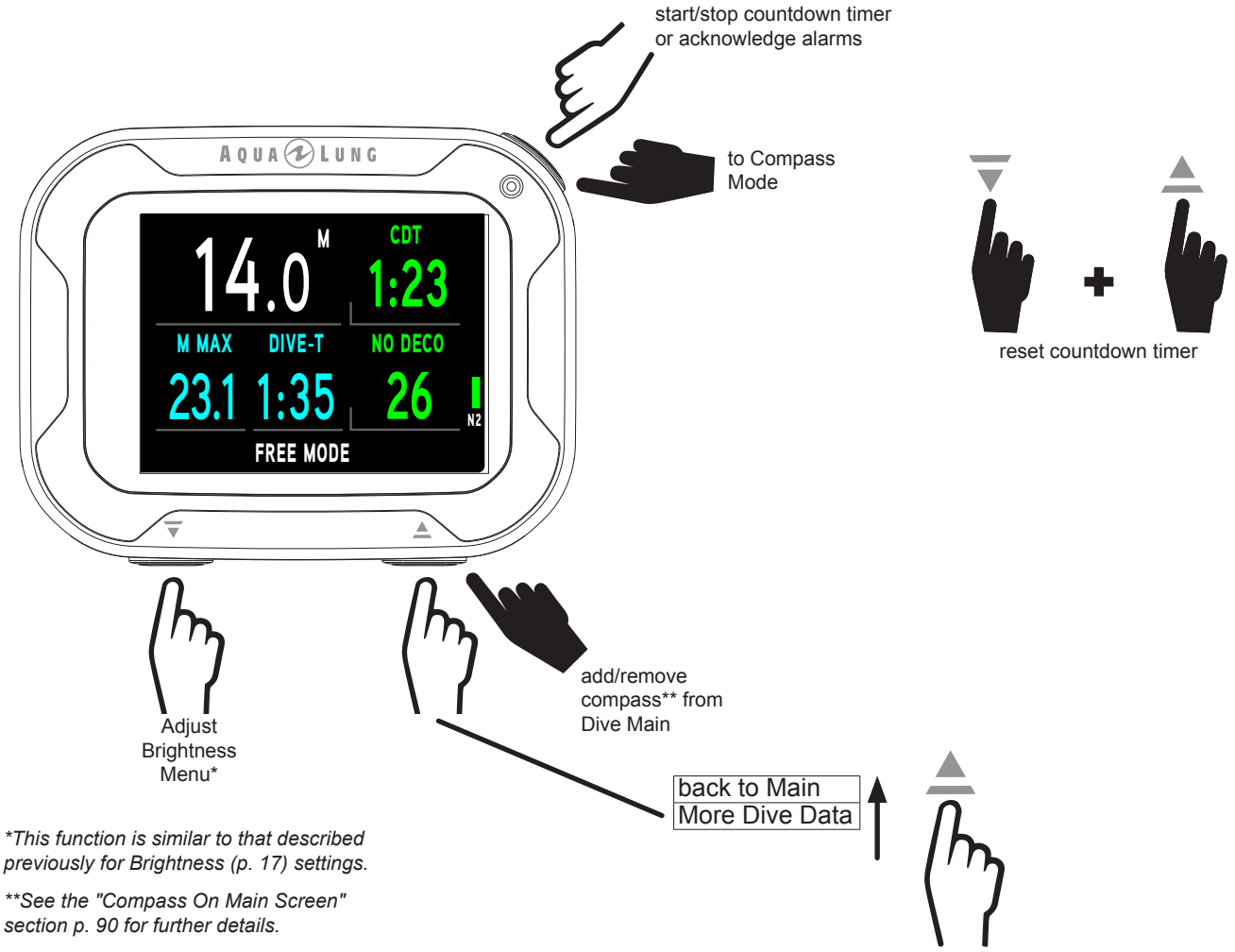




NOTE: Depth Alarm 2 and 3 are similar.

INITIATING A DIVE

With the i770R in Free Mode, a dive will commence upon descending to 1.5 m (5 ft) for longer than 5 seconds. Below is a diagram to help you navigate Free Dive Mode functions. The dive will end and revert to Surface Mode upon ascent to 0.9 m (3 ft) of depth for at least 1 second.

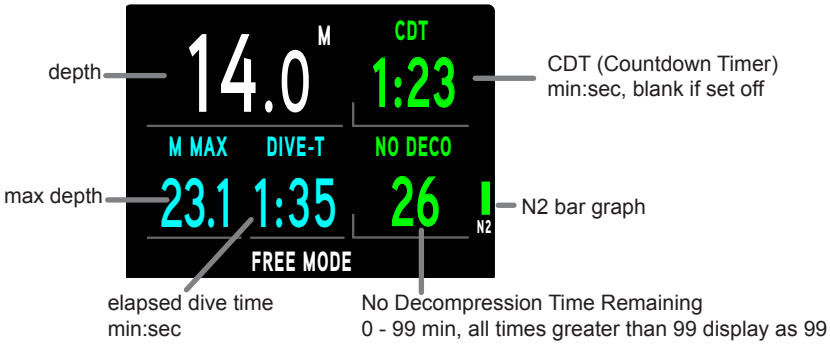


**This function is similar to that described previously for Brightness (p. 17) settings.*

***See the "Compass On Main Screen" section p. 90 for further details.*

FREE DIVE MAIN

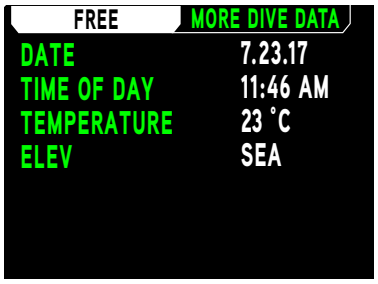
The Free Dive Main provides basic information including depth, no decompression time, Dive-T (dive time), temperature and nitrogen loading during the dive.



Doc. 12-7892-r01 (4/24/18)

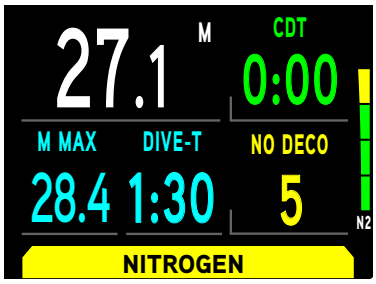
MORE DIVE DATA

This screen displays the date, current time of day, temperature, and elevation.



N2 (NITROGEN) WARNING

If the nitrogen increase to the yellow (4th) segment on the N2 Bar Graph the i770R will warn you by flashing the message NITROGEN on a yellow background during the audibvle alarm. When the audible warning is silenced the message NITROGEN on a yellow background will remain solid on the screen.

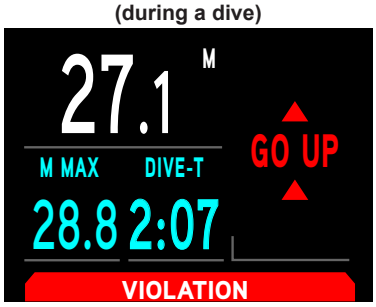


FREE VIOLATION ALARM

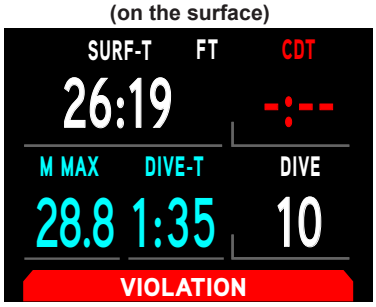
If nitrogen increase to the decompression level, the audible alarm will sound. Temperature. NO DECO (no decompression) and CDT (Countdown Timer) values are removed. They are replaced by the message GO UP VIOLATION with Up Arrows flashing until on the surface. At this time the N2 Bar Graph will also flash. When the audible alarm is silenced, the N2 Bar Graph is removed.

On the surface, the graphic GO UP and Up Arrows are removed. The graphic VIOLATION is to flash for 24 hours with Violation Gauge Mode activated to prevent further dives.

VIOLATION (during a dive)



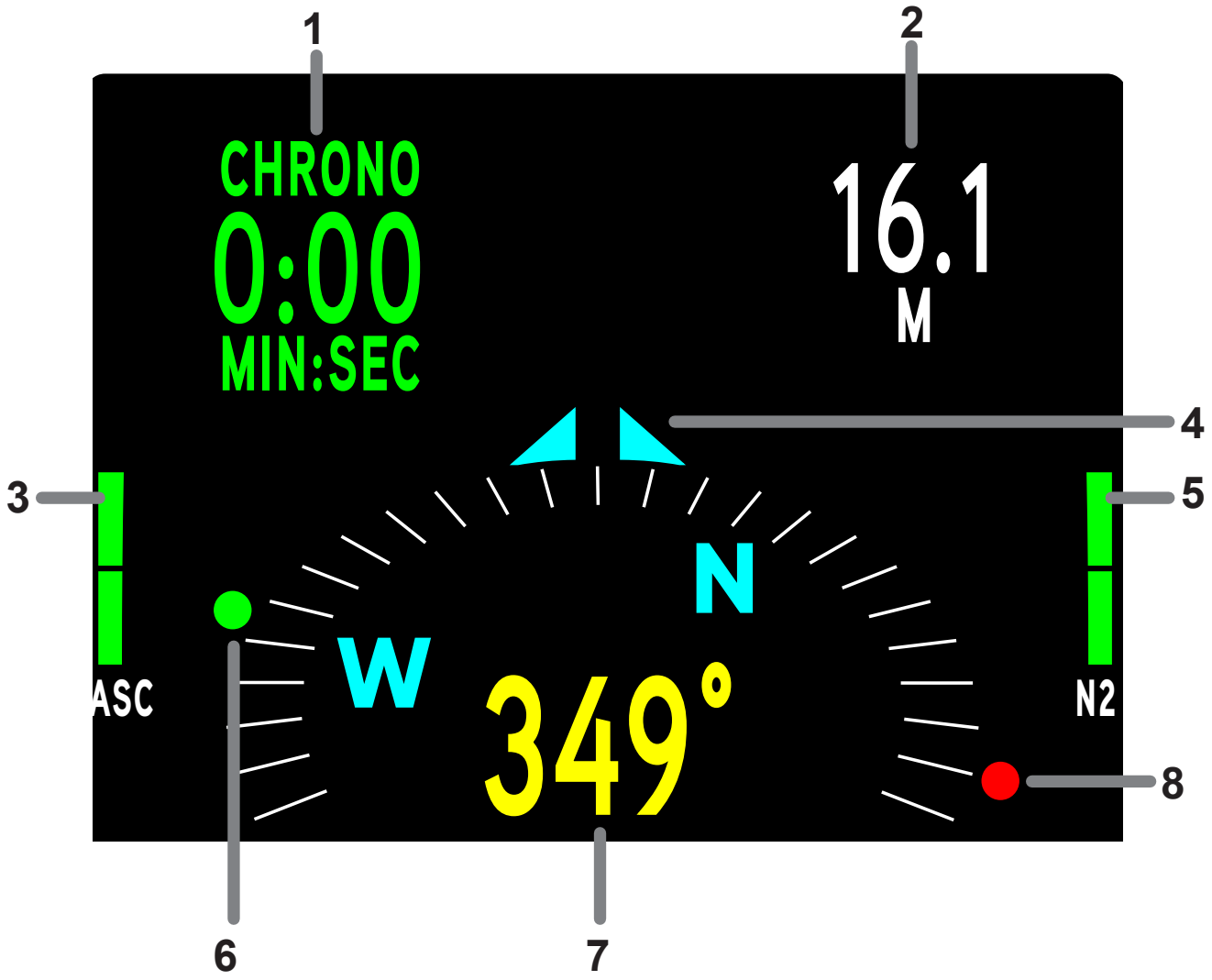
VIOLATION (on the surface)



Doc. 12-7892-r01 (4/24/18)

COMPASS MODE

COMPASS DISPLAY ICONS



1	CHRONOGRAPH
2	DEPTH OR SURFACE TIME
3	ASCENT RATE
4	DIVER'S DIRECTION (LUBBER LINE)
5	NITROGEN LOADING
6	HEADING MARKER
7	HEADING DEGREES
8	RECIPRICAL HEADING MARKER

Doc. 12-7892-r01 (4/24/18)

OVERVIEW

The i770R is equipped with an advanced 3D digital compass. Compass Mode can be activated while in Dive, Gauge, or Free operation Modes by holding the (Select) button for at least 2 seconds.

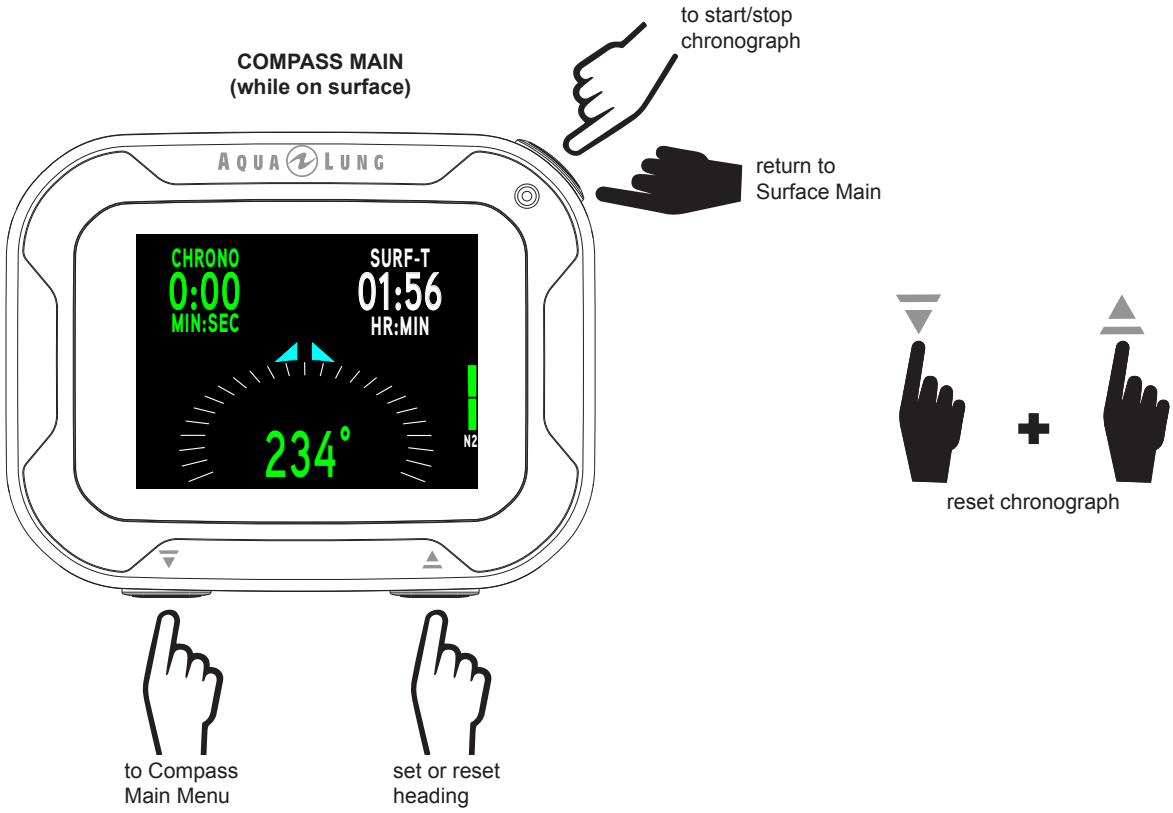
- The i770R reverts back to the previous operation mode after 2 minutes unless the Compass Mode is reset by pressing any of the buttons.

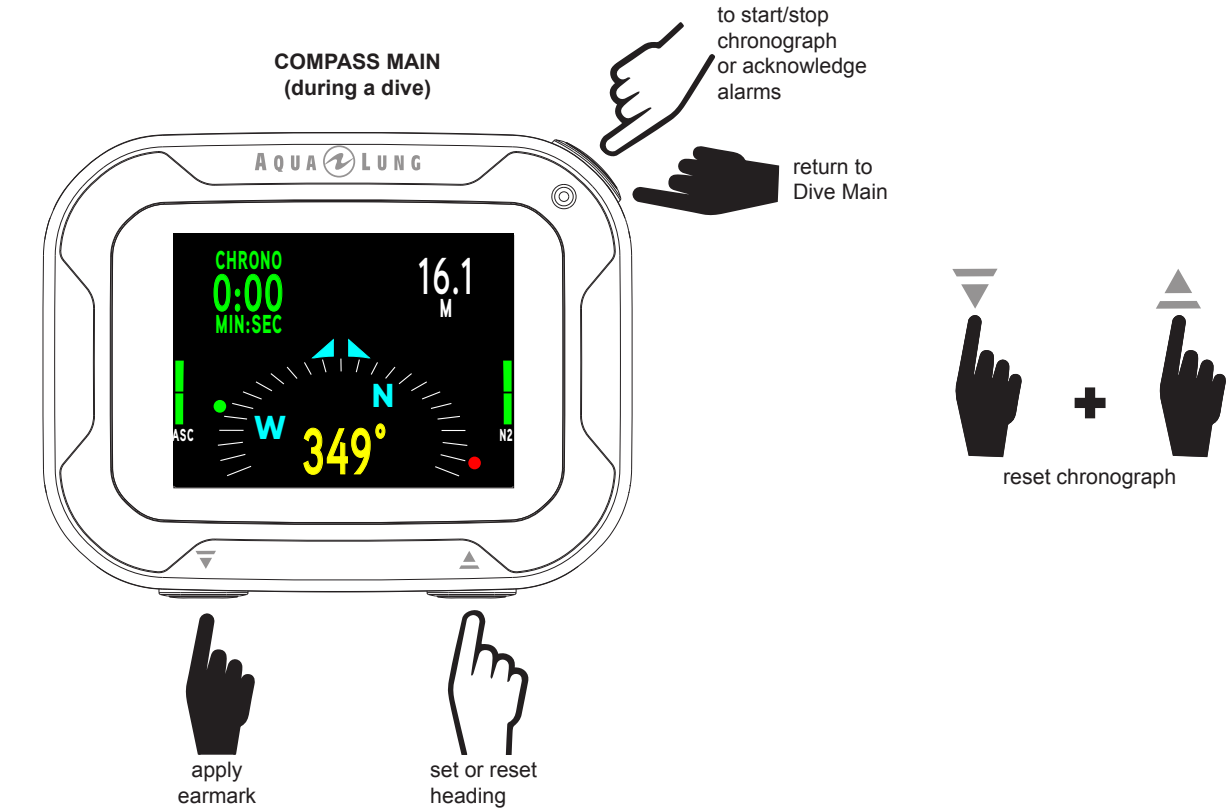
- When no heading is set, the heading degrees remain green.

- Once a heading is set, the heading degrees are green when on heading, red when on reciprical heading, and yellow when greater than 10 degrees off of those two headings.

NOTE: Similar to an analog compass, magnetic and ferrous metals can cause erratic and erroneous readings.

⚠ WARNING: You must become thoroughly familiar with setup and operation of the i770R Digital Compass before using it as your primary device for navigation. Failure to do so could result in serious errors relating to activities involving navigation.

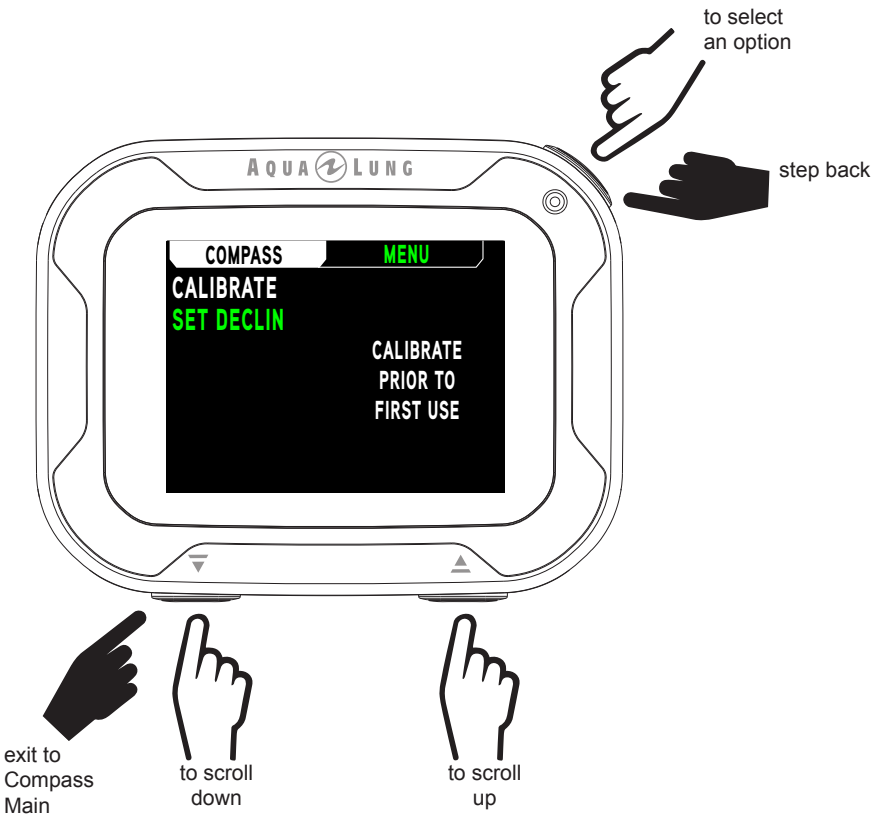




COMPASS MAIN MENU

The Main menu allows you to adjust compass accuracy.

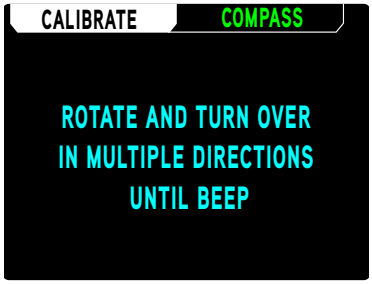
NOTE: The Main Menu can only be accessed while on the surface. During a dive the i770R will use the last saved settings when accessing the Compass Mode.



CALIBRATE

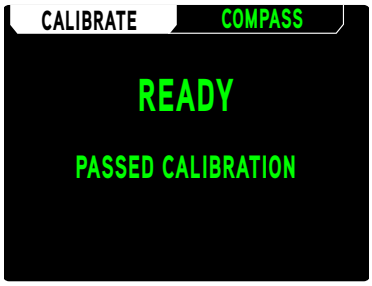
You may need to calibrate the compass from time to time to compensate for any magnetic interference (new dive location or other surrounding changes). The Calibration selection in the Compass Main Menu allows you to initiate a calibration.

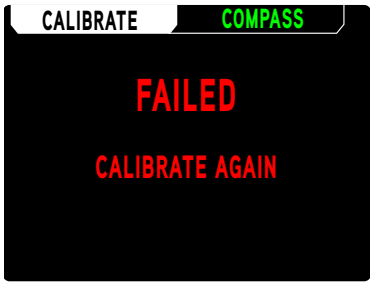
To calibrate the i770R, select Calibrate from the Compass Main Menu. Then follow the onscreen prompts. Rotate and turn the i770R in as many different directions as possible until the unit beeps.



The message READY PASSED CALIBRATION or FAILED CALIBRATE AGAIN will then appear.

NOTE: The i770R will return to the Compass Main Menu after 3 failed calibration attempts.



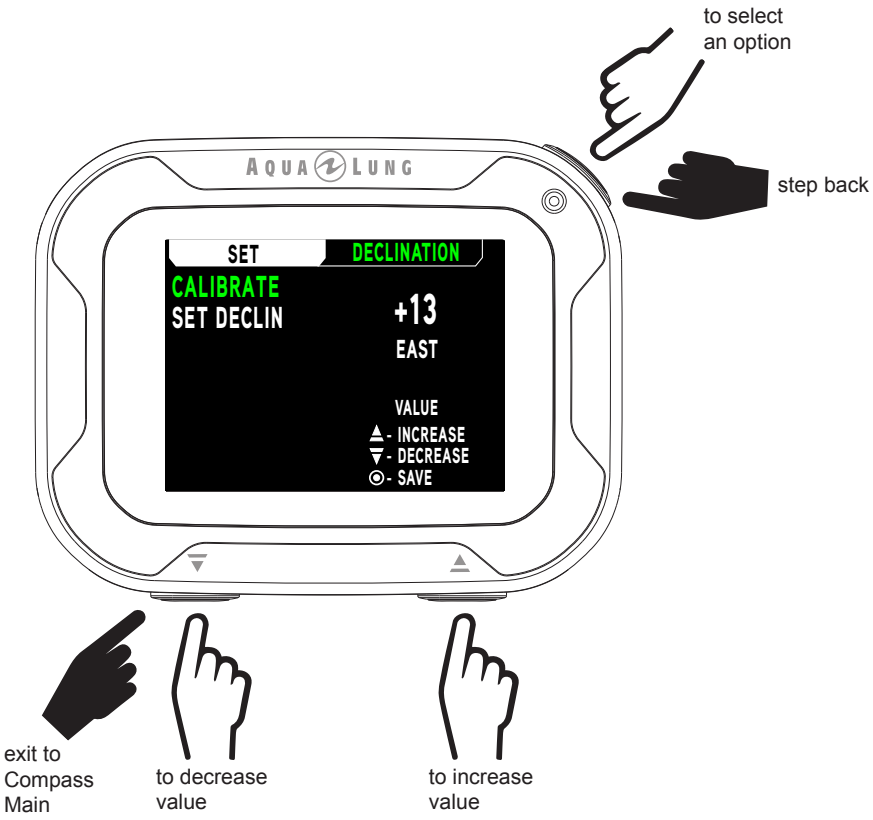


Doc. 12-7892-r01 (4/24/18)

SET DECLINATION

Magnetic declination or variation measures the angle between the Earth's magnetic north and true north. The declination value for any region can be found on current geographical charts. By correcting for declination, you can achieve a more accurate compass reading.

NOTE: Magnetic north changes over time; so use only current geographical charts to obtain the declination value for any geographical region.

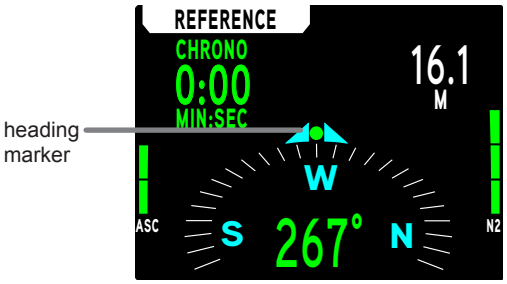


SET REFERENCE HEADING

Pressing the ▲ (UP) button while on the Compass Main screen will simultaneously set a reference heading and reciprical heading. The message REFERENCE is confirmation of your heading being set. The reference heading is then represented by a green marker and the reciprical heading is represented by a red marker. The heading can be reset at anytime by pressing the ▲ (UP) button again. Holding the ▲ (UP) button will remove the heading.

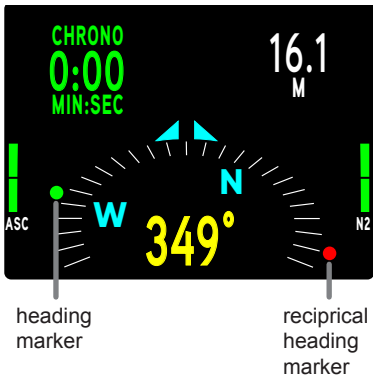
SET HEADING

HEADING IS SET

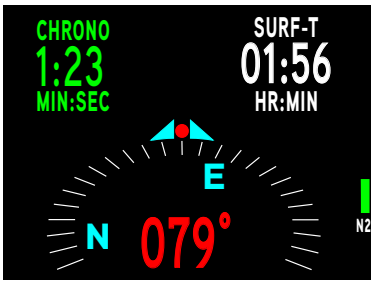


ON HEADING
(heading set to 267°)

OFF HEADING
(heading set to 267°)



ON RECIPRICAL HEADING
(heading set to 259°)

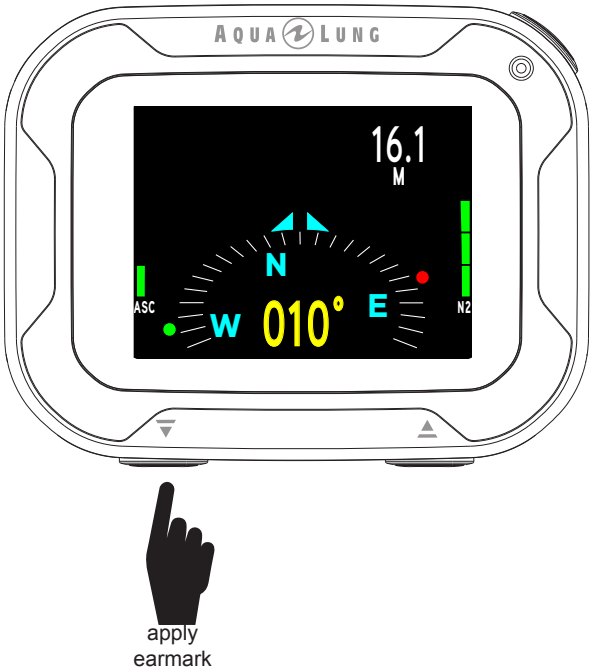


Doc. 12-7892-r01 (4/24/18)

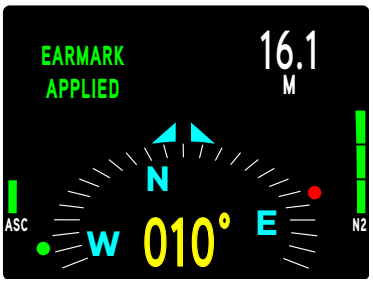
EARMARK

By holdinging the ▼ (Down) button during a dive you can manually record a data snapshot which can later be accessed using the i770R's download feature. The message "EARMARK APPLIED" will be displayed for 3 seconds as confirmation after an earmark is made.

APPLY EARMARK



EARMARK APPLIED



ALARMS

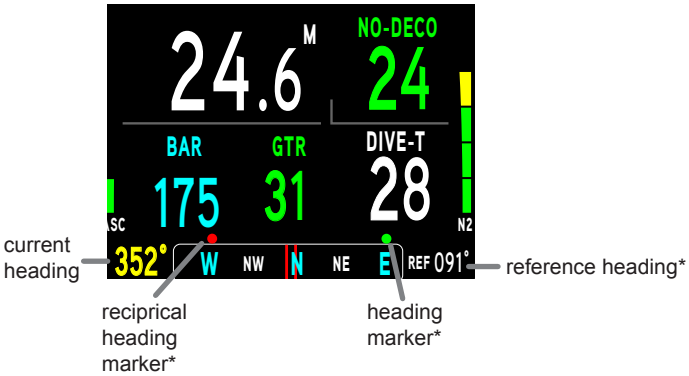
When alarms are triggered, operation in Compass Mode will be terminated and the Dive Main screen will be displayed describing the alarm condition. Compass Mode can then be reentered by holding ◎ (Select) for 2 sec after the alarm has been cleared/acknowledged.

COMPASS ON MAIN SCREEN

The compass may be added or removed from the bottom of the Dive, Gauge, or Free Mode Main screens (on the surface or during a dive) by holding the ▲ (UP) button. Holding the ▲ (UP) button again will remove the compass from the Main screen.

NOTE: Headings can be displayed on the Main screens but they must be set and/or reset in the Compass Mode. See the previous section "Set Reference Heading" on p. 89 for instruction on how to do so.

COMPASS ON DIVE MAIN
(heading set to 91°)



**This item is displayed only if the reference heading is set in the Compass Mode.*

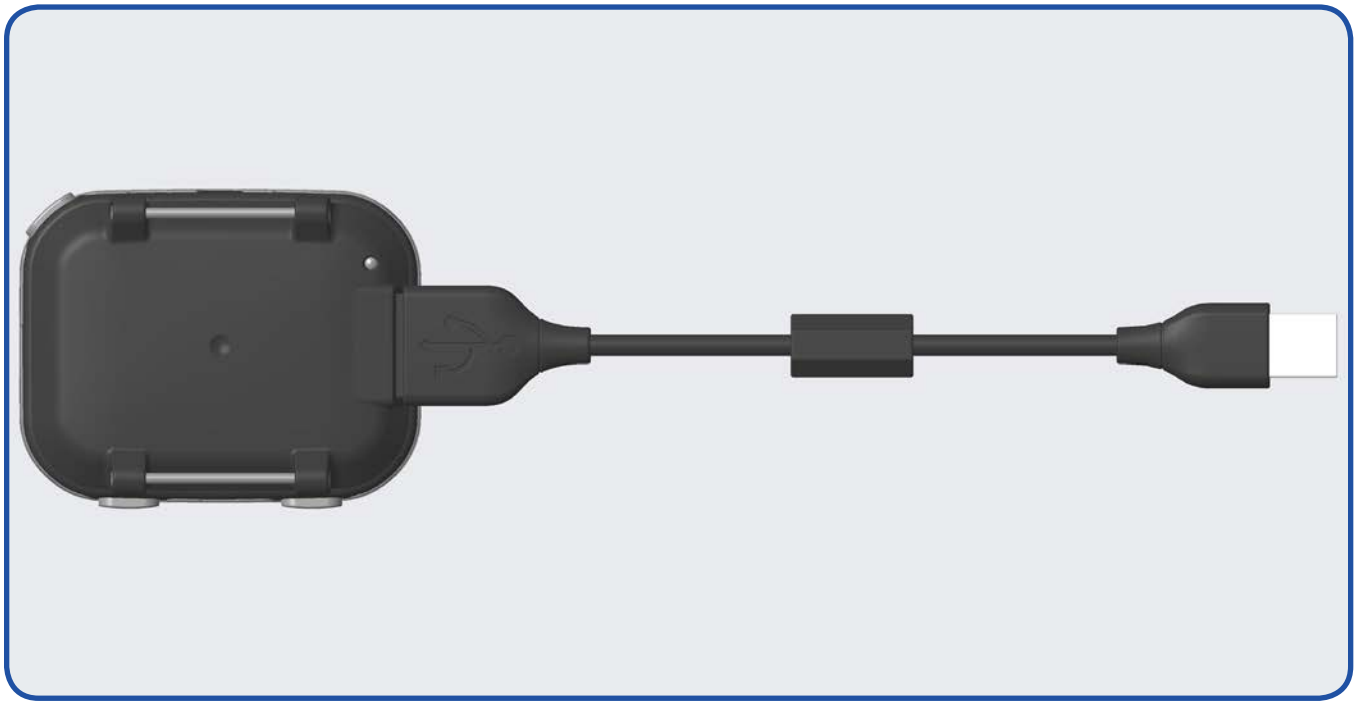
REFERENCE

UPLOADING/DOWNLOADING

As previously described (page 21), the i770R can be paired using the Bluetooth® feature. This requires a mobile device running Diverlog + software and equipped with Bluetooth® functionality. Follow the Diverlog + instructions on how to pair your devices and use the upload/download features.

Alternately, The i770R is configured with a 4 contact data connection port located on the side of the case. It can be used with the included USB to connect the i770R with a PC or Mac. Connect the USB cable to the i770R. When connecting the cable to the i770R, ensure that the 4 pins on the cable are properly connected to the 4 contacts on the i770R. The i770R and USB cable assembly can now be connected to a PC or Mac running Diverlog software.

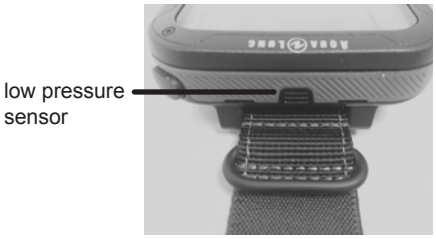
NOTE: If a USB cable is connected to the i770R, Bluetooth® connection will be blocked or disabled. Though any active downloads, uploads, or firmware updates using Bluetooth® will be allowed to finish first.

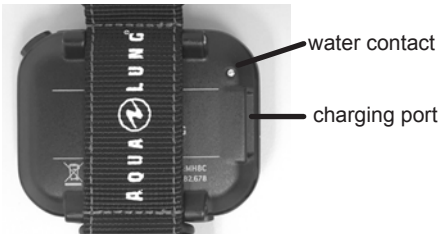


CARE AND CLEANING

Protect your i770R from shock, excessive temperatures, exposure to chemicals, and tampering. Protect the lens against scratches with lens protector. Small scratches will naturally disappear underwater.

- Soak and rinse the i770R in fresh water at the end of each day of diving, and check to ensure that the areas around the low pressure (depth) sensor, charging port, water contact, and buttons are free of debris or obstructions.
- To dissolve salt crystals, use lukewarm water or a slightly acidic bath (50% white vinegar/50% fresh water). After removal from the bath, place the i770R under gently running fresh water. Towel dry before storing.
- Keep your i770R cool, dry, and protected during transport.





SERVICE

⚠ **WARNING: At a minimum, annually check the altitude reading on the MoreData screen (p. 36) and Pre-Dive Planner (p. 49, 94) for accuracy. If your i770R is ever out of calibration (incorrect elevation reading, incorrect No Decompression Dive Times in the planner, or showing a depth reading at the surface) or displays an error code message, it must be serviced at the factory before use.**

If required to return your i770R to Aqua Lung:
- Obtain an RA (Return Authorization) number by contacting http://www.aqualung.com/us/support/contact-us or (760) 597-5000
- Record all dive data in the Log and/or download the data stored in memory. All data will be erased during factory service.

ALTITUDE SENSING AND ADJUSTMENT

Prior to the first dive of a series of repetitive dives, Altitude (i.e., ambient pressure) is measured upon activation and every 15 minutes until a dive is made.

- While it is operating in Surface Mode after a dive, measurements are taken every 15 minutes during the 24 hour period after surfacing.
- Measurements are only taken when the unit is dry.
- Two readings are taken, the second reading 5 seconds after the first. The readings must be within 1 foot (30 cm) of each other to record that ambient pressure as the current altitude.
- No adjustments are made during any time that the water contacts are bridged.

When diving in high altitude waters from 916 to 4,270 meters (3,001 to 14,000 feet), the i770R automatically adjusts to these conditions providing corrected depth, and reduced No Decompression and O2 Times at intervals of 305 meters (1,000 feet).

At an elevation of 916 meters (3,001 feet), Depth calibration automatically changes from feet of seawater to feet of fresh water. This is the first adjustment to the algorithm. When the Conservative Factor feature is set to ON, No Decompression Times are calculated based upon the next higher 915 meter (3,000 foot) Altitude. All adjustments for altitudes greater than 3,355 meters (11,000 feet) are then made to allowable dive times for 4,270 meters (14,000 feet). At Sea Level, calculations are based upon an altitude of 1828.8 meters (6,000 feet).

The i770R will not function as a dive computer above 4,270 meters (14,000 feet).

Doc. 12-7892-r01 (4/24/18)

CHANGING THE STRAPS

Your i770R is packaged with two different strap options, nylon strap or bungee adapters.

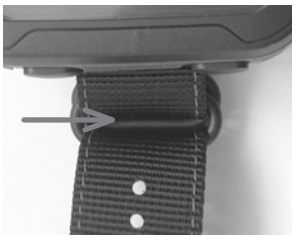
NATO (Nylon) Strap

Installation:

Step 1.Thread the strap through the strap pins.

Step 2. Pull the strap until it stops at the seam.

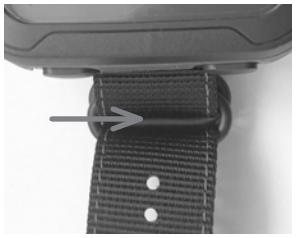
Step 3. Thread the strap through the clasps.



NOTE: Double backing the strap through the clasps will provie a more secure attachment, preventing the i770R from sliding off of a wet strap when not being worn.

Removal:

Step 1. Unthread the strap at the clasps.



Step 2.Unthread the strap from the strap pins.

Bungee Adapters

Installation:

Step 1. Remove the strap pin screws using two 2 mm allen keys/ drivers, as shown.

Step 2. Fit the bungee adapter to the brackets with the notch facing inward, as shown.

Step 3. Attach the bungee adapter, reusing the strap pin screws. Then repeat steps 1-3 for the other side.

⚠ **CAUTION: Whenever the screws are removed and replaced, it is recommended to use medium strength (removable) threadlocker on them to prevent them loosening.**

Removal:

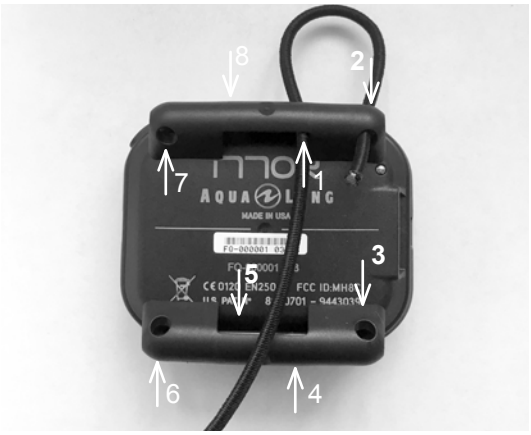
Simply, reverse the previous steps for removal.

Bungee Strap

The Bungee adapters have multiple holes that allow for many attachment options. The recommended options are shown here.

Option 1.
One continuous loop:
• This method is easier to adjust.
• Though if the strap breaks it is possible to lose the product.

Step 1. Thread the bungee.



Step 2. Tie the ends together.

Step 3. Make adjustments and trim the bungee as needed.

Doc. 12-7892-r01 (4/24/18)

Option 2.
Two individual loops:
• This option can provide added security against product loss due to a single broken strap.
• Though it requires two separate adjustments.

Step 1. Thread the bungee and tie the ends on one side then repeat for the other side.

Step 2. Make adjustments and trim the bungee as needed.

TECHNICAL DATA

NO DECOMPRESSION TIME LIMITS

Z+ ALGORITHM >> NDLS (HR:MIN) AT ALTITUDE (METRIC)

Altitude (meters)	0 to 915	916 to 1220	1221 to 1525	1526 to 1830	1831 to 2135	2136 to 2440	2441 to 2745	2746 to 3050	3051 to 3355	3356 to 3660	3661 to 3965	3966 to 4270
Depth (M)												
9	3:37	2:41	2:31	2:23	2:16	2:10	2:04	1:59	1:54	1:50	1:43	1:37
12	1:55	1:27	1:21	1:15	1:12	1:08	1:05	1:03	1:00	0:58	0:55	0:54
15	1:08	0:55	0:53	0:51	0:49	0:47	0:44	0:42	0:39	0:37	0:36	0:34
18	0:50	0:39	0:37	0:35	0:33	0:32	0:30	0:28	0:26	0:24	0:23	0:22
21	0:36	0:28	0:26	0:24	0:23	0:21	0:20	0:19	0:18	0:17	0:16	0:16
24	0:27	0:20	0:19	0:18	0:17	0:16	0:15	0:14	0:13	0:12	0:11	0:11
27	0:20	0:16	0:15	0:13	0:12	0:11	0:11	0:10	0:09	0:09	0:09	0:08
30	0:16	0:12	0:11	0:10	0:09	0:09	0:09	0:08	0:08	0:07	0:07	0:07
33	0:13	0:09	0:09	0:08	0:08	0:07	0:07	0:07	0:07	0:06	0:06	0:06
36	0:10	0:08	0:07	0:07	0:07	0:06	0:06	0:06	0:05	0:05	0:05	0:05
39	0:09	0:07	0:06	0:06	0:06	0:06	0:05	0:05	0:05	0:05	0:05	0:04
42	0:08	0:06	0:06	0:05	0:05	0:05	0:05	0:05	0:04	0:04	0:04	0:04
45	0:06	0:05	0:05	0:05	0:05	0:04	0:04	0:04	0:04	0:04	0:04	0:04
48	0:06	0:05	0:05	0:04	0:04	0:04	0:04	0:04	0:04	0:03	0:03	0:03
51	0:05	0:04	0:04	0:04	0:04	0:04	0:04	0:03	0:03	0:03	0:03	0:03
54	0:05	0:04	0:04	0:04	0:04	0:03	0:03	0:03	0:03	0:03	0:03	0:03
57	0:05	0:04	0:04	0:03	0:03	0:03	0:03	0:03	0:03	0:03	0:03	0:03

Z+ ALGORITHM >> NDLS (HR:MIN) AT ALTITUDE (IMPERIAL)

Altitude (feet)	0 to 3000	3001 to 4000	4001 to 5000	5001 to 6000	6001 to 7000	7001 to 8000	8001 to 9000	9001 to 10000	10001 to 11000	11001 to 12000	12001 to 13000	13001 to 14000
Depth (FT)												
30	3:17	2:30	2:21	2:14	2:08	2:02	1:57	1:52	1:47	1:39	1:34	1:29
40	1:49	1:21	1:15	1:11	1:08	1:05	1:02	1:00	0:57	0:55	0:53	0:51
50	1:05	0:53	0:51	0:49	0:47	0:44	0:42	0:39	0:37	0:35	0:34	0:33
60	0:48	0:37	0:35	0:33	0:32	0:30	0:28	0:26	0:24	0:23	0:22	0:21
70	0:35	0:26	0:24	0:23	0:21	0:20	0:19	0:18	0:17	0:16	0:16	0:14
80	0:26	0:19	0:18	0:17	0:16	0:15	0:14	0:13	0:12	0:11	0:11	0:10
90	0:19	0:15	0:14	0:13	0:12	0:11	0:10	0:10	0:09	0:09	0:08	0:08
100	0:16	0:11	0:10	0:10	0:09	0:09	0:08	0:08	0:07	0:07	0:07	0:07
110	0:12	0:09	0:08	0:08	0:08	0:07	0:07	0:07	0:06	0:06	0:06	0:05
120	0:10	0:08	0:07	0:07	0:07	0:06	0:06	0:06	0:05	0:05	0:05	0:05
130	0:08	0:07	0:06	0:06	0:06	0:05	0:05	0:05	0:05	0:05	0:04	0:04
140	0:07	0:06	0:05	0:05	0:05	0:05	0:05	0:04	0:04	0:04	0:04	0:04
150	0:06	0:05	0:05	0:05	0:05	0:04	0:04	0:04	0:04	0:04	0:04	0:03
160	0:06	0:05	0:05	0:04	0:04	0:04	0:04	0:04	0:04	0:03	0:03	0:03
170	0:05	0:04	0:04	0:04	0:04	0:04	0:03	0:03	0:03	0:03	0:03	0:03
180	0:05	0:04	0:04	0:04	0:03	0:03	0:03	0:03	0:03	0:03	0:03	0:03
190	0:04	0:04	0:04	0:03	0:03	0:03	0:03	0:03	0:03	0:03	0:03	0:00

NOTE: The i770R graphical format displays a maximum of 99 minutes of No Decompression time. Times greater than 99 minutes display as 99 on the i770R screen. The above figures in the above chart are actual no decompression time values the i770R uses for calculations.

ALTITUDE LEVELS

DISPLAY	RANGE: FEET (METERS)
SEA	0 to 3,000 (915)
EL2	3,001 to 5,000 (916 to 1,525)
EL3	5,001 to 7,000 (1,526 to 2,135)
EL4	7,001 to 9,000 (2,136 to 2,745)
EL5	9,001 to 11,000 (2,746 to 3,355)
EL6	11,001 to 13,000 (3,356 to 3,965)
EL7	> 13,000 (3,965)

OXYGEN EXPOSURE LIMITS

(from NOAA Diving Manual)

PO2 (ATA)	MAX DURATION SINGLE EXPOSURE (MIN)	MAX TOTAL DURATION 24 HOUR DAY (MIN)
0.60	720	720
0.70	570	570
0.80	450	450
0.90	360	360
1.00	300	300
1.10	240	270
1.20	210	240
1.30	180	210
1.40	150	180
1.50	120	180
1.60	45	150

Doc. 12-7892-r01 (4/24/18)

SPECIFICATIONS

CAN BE USED AS
- Dive Computer (Air or Nitrox)
- Digital Depth Gauge/Timer
- Free Dive Computer

DIVE COMPUTER PERFORMANCE
- Bühlmann ZHL-16C based Z+ algorithm
- Decompression in agreement with Bühlmann ZHL-16C
- No Decompression Deep Stops - Morroni, Bennett
- Decompression Deep Stops (not recommended) - Blatteau, Gerth, Gutvik
- Altitude - Bühlmann, IANTD, RDP (Cross)
- Altitude corrections and O2 limits based on NOAA tables

OPERATIONAL PERFORMANCE

Function:	Accuracy:
• Depth	±1% of full scale
• Timers	1 second per day

Dive Counter:
- DIVE/GAUGE displays Dives #1 to 24, FREE displays #1 to 99 (0 if no dive made)
- Resets to Dive #1, upon diving (after 24 hours with no dives)

Dive Log Mode:
- Stores 99 most recent DIVE/GAUGE dives in memory for viewing
- After 99 dives, adds 100th dive in memory and deletes the oldest entry (entry 1)

Altitude:
- Operational from sea level to 14,000 feet (4,270 meters) elevation
- Measures ambient pressure every 30 minutes when inactive, upon activation, every 15 minutes while activated.
- Does not measure ambient pressure when wet.
- Compensates for Altitudes above sea level beginning at 3,001 feet (916 meters) elevation and every 1,000 feet (305 meters) higher.

Power:
- Rechargeable Lithium.
- The battery is a factory replacement item and is not user servicable.

Sleep Mode (surface):
- Activates and turns the screen off when 10 minutes elapse on the surface with no button operations.
- Resume operation from Sleep Mode by pressing any button.

Battery Indication:
- Green (Good) - Green Icon displays on the Suface Main. No battery icon during the dive.
- Amber (Warning) - Amber Icon on the Surface and Dive Main screens. Brightness level will automatically be limited to 60% maximum.
- Red (Alarm) - Red Icon on the Surface and Dive Main screens. If during a dive, the message ALARM LOW BATTERY with up arrows is displayed. If on the surface, the message ALARM LOW BATT flashes until the unit shuts off. The battery must be recharged before using your i770R. Brightness level will automatically be limited to 30% maximum.

Operating Temperature:
- Out of the water - between -6.6 and 60 °C (20 °F and 140 °F).
- In the water - between -2.2 and 35 °C (28 °F and 95 °F).

Doc. 12-7892-r01 (4/24/18)

NUMERIC DISPLAYS:	**Range:**	**Resolution:**
• Dive Number	0 to 24	1
• Depth	0 - 100 M (0 - 330 FT)	0.1 M (1 FT)
• FO_2 Set Point	Air, 21 to 100 %	1 %
• PO_2 Value	0.00 to 5.00 ATA	0.01 ATA
• Dive Time Remaining	0 to 99 min, display 99 if >99 min	1 minute
• Time To Surface	0 to 99 min, display - - if >99 min	1 minute
• No Decompression Deep Stop Time	2:00 to 0:00 min:sec	1 second
• No Decompression Safety Stop Time	5:00 to 0:00 min:sec	1 second
• Decompression Stop Time	0 to 999 min	1 minute
• DIVE/GAUGE Elapsed Dive Time	0 to 999 min	1 minute
• Free Elapsed Dive Time	0:00 to 9:59 min:sec	1 second
• Surface Interval Time	0:00 to 23:59 hr:min	1 minute
• Free Surface Interval Time	0:00 to 59:59 min:sec, then 1:00 to 23:59 hr:min	1 second 1 minute
• Time to Fly & Desaturate	23:50 to 0:00 hr:min* ** starting 10 min after the dive*	1 minute
• Temperature	-18 to 60° C (0 to 99° F) if outside of temp range, then displays - -	1°
• Time of Day	0:00 to 23:59 hr:min	1 minute
• Free Countdown Timer	9:59 to 0:00 min:sec	1 second
• Violation Countdown Timer	23:50 to 0:00 hr:min	1 minute

Max Functional Depth:	**Limit:**
• DIVE/GAUGE/FREE	100 M (330 FT)

Doc. 12-7892-r01 (4/24/18)

FCC ID: MH8A

FCC COMPLIANCE:

This equipment complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: 1.) this equipment may not cause harmful interference, and 2.) this equipment must accept any interference received, including interference that may cause undesired operation.

FCC INTERFERENCE STATEMENT:

This equipment has been tested and found to comply with the limits for an Intentional Radiator, a Class B Digital Device, pursuant to Part 15 of FCC Rules, Title 47 of the Code of Federal Regulations. These rules are designed to provide reasonable protection against harmful interference in a commercial or residential installation. This equip-ment generates, uses and can radiate radio frequency energy and, if not installed
and used in accordance with the instructions, may cause harmful interference to radio communications.

There is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

⚠ CAUTION: Changes or modification to this unit not expressly approved by Aqua Lung International could void the user's authority to operate the equipment.

ABBREVIATIONS/TERMS

ACT = Activation
AL = Alarm
ALT = Alternate
ASC Bar Graph = Ascent Rate
ATA = Standard Atmosphere (unit)
AUD = Audible Alarm
BATT = Battery
CDT = Countdown Timer
CF = Conservative Factor
DA = Depth Alarm (Free Dive)
DCS = Decompression Sickness
DECO = Decompression
DFLT = Default
DS = Deep Stop
DTR = Dive Time Remaining
EDT = Elapsed Dive Time
EL/ELEV = Elevation (altitude)
FLY = Time To Fly
FO2 = Fraction of Oxygen (%)
FORM = Format (date, time)
FREE = Free Dive Mode
FT = Feet (depth)
GAU/GAUG/GAUGE = Digital Gauge Dive Mode
GTR = Gas Time Remaining
H2O = Water
HIST = History
IMP = Imperial (measure)
LAST = Previous (dive)
M = Meters (depth)
MET = Metric
MIN = Minutes (time)
MOD = Maximum Operating Depth
N2 = Nitrogen
N2 Bar Graph = Tissue Loading Bar Graph
NDL = No Decompression Limit
NO DECO = No Decompression (DTR)
O2 = Oxygen
O2 TIME = Oxygen Time Remaining (DTR)
O2 SAT = Oxygen Saturation
PC = Personal Computer (download)
PLAN = Dive Planner
PO2 = Partial Pressure of O2 (ATA)
RTI = Repeating Time Interval
SAFE = Safety (stop)
SAT = Desaturation Time
SEA = Sea Level
SEC = Seconds (time)
SN = Serial Number
SR = Sample Rate
SS = Safety Stop
SURF/SURF-T = Surface Time
TTS = Time To Surface
VIO/VIOL = Violation

EUROPEAN UNION DIRECTIVES

- EC type examination conducted by: SGS United Kingdom Ltd, Weston - super - Mare, BS22 6WA, UK, Notified Body No. 0120.
- HP gas pressure sensing components are in conformity with EN250:2014 - Respiratory equipment - open-circuit self-contained compressed air diving apparatus - requirements, testing and marking – clause 6.11.1 Pressure Indicator. EN 250:2014 is the standard describing certain minimum performance requirements for SCUBA regulators to be used with air only sold in EU. EN250:2014 testing is performed to a maximum depth of 50 M (165 FSW). A component of self-contained breathing apparatus as defined by EN250:2014 is: Pressure Indicator, for use with air only. Products marked EN250 are intended for air use only. Products marked EN 13949 are intended for use with gases containing more than 22% oxygen and must not be used for air.
- Depth and time measurements are in conformity with EN13319:2000 - Diving Accessories - depth gauges and combined depth and time measuring devices
- EN 12021 is a standard that specifies the allowable contaminates and component gasses that make up compressed air. This is the equivalent of the USA Compressed Gas Association’s Grade E air. Both standards allow very small amounts of contaminants that are not harmful to breathe, but can cause a problem if present in systems using gasses with a high percentage of oxygen.
- Electronic instruments are in compliance with Directive 2004/108/EC Electromagnetic compatibility (EMC) EN 61000 part 6-1: Generic Standards - immunity for residential, commercial and light-industrial environments

Doc. 12-7892-r01 (4/24/18)

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