



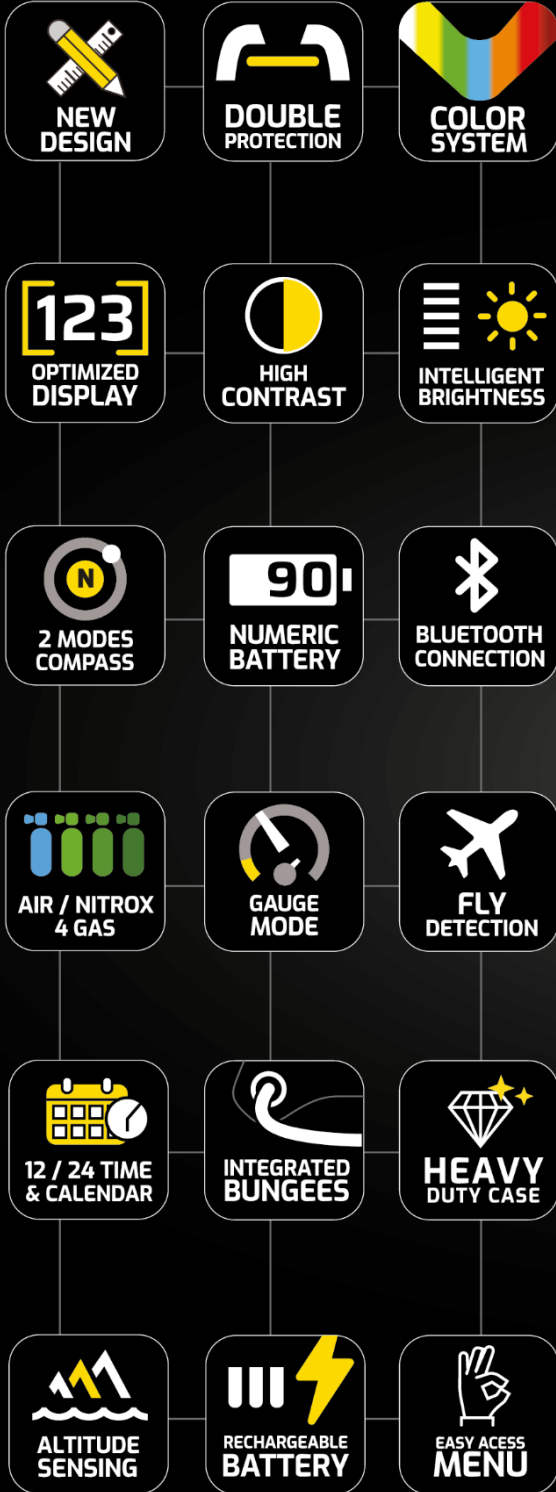
DaVinci

Direction for Use

CRESSI

EN DIRECTION FOR USE

DAVINCI



QUALITY PRODUCTS
SINCE 1946

www.cressi.com

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DaVinci Direction for Use, Rev. 1.00.

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FIRMWARE NOTICE

This Direction for Use corresponds to firmware version V01. Feature changes may have been made since this release and might not be documented here. Check the release notes at www.cressi.com for a complete list of changes since the last release.

FCC COMPLIANCE:

FCC Part 15 testing on the DaVinci was performed by HCT America at 840 Yosemite Way Milpitas, CA 955035, USA.

EC TYPE EXAMINATION CONDUCTED BY:

EN 13319 testing was performed at COMEX (Compagnie Maritime d'Expertise) Notified Body N°3061 at its ISO/IEC 17025 accredited laboratory at 36 Bd de l'Océan, 13009 Marseille, France. RF/EMC Testing was performed by HCT America at 840 Yosemite Way Milpitas, CA 955035, USA. **(Relevant EN Standards Met:** RF Testing - EN 300 328 / RF Exposure Testing / EMC Testing - EN 55032 / EN 55035 / EN 301 489 -17 / Safety Testing - EN 62368-1)

DaVinci test reports and the Declaration of Conformity may be found at

<https://store.cressi.com/pages/conformity> .

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1. SAFETY INFORMATION

TYPES OF WARNING MESSAGES AND SYMBOLS

	NOTICE! Indicates a condition that can cause severe or even lethal injuries!
	WARNING Indicates a procedure that can damage the product.
	IMPORTANT Indicates an important message.

2. ABOUT YOUR SAFETY

	THIS INFORMATION DOES NOT REPLACE A DIVING COURSE! All Cressi diving equipment is intended for use by trained divers, who have taken courses held by qualified diving instructors. Making use of underwater equipment without a diving license or sufficient training, including skin diving training, may endanger the health and even the life of a diver.
	PLEASE READ THIS BOOKLET CAREFULLY BEFORE YOU START USING THE EQUIPMENT. DO NOT use your dive computer until you have read this information and the relative instructions for use. Make sure you have perfectly understood the use, the screen views and the limits of your diving devices. For any question or doubt you may have concerning this manual or the dive computer, contact your Cressi retailer before using the diving equipment. Responsibility for their safety lies solely with the users!
	READ THE QUICK GUIDE CONTAINED IN THE PACKAGING AND THE ONLINE GUIDE. Failure to comply with the instructions given therein may endanger the health and even the life of a diver!
	DIVING WITH A SELF-CONTAINED BREATHING APPARATUS IS NOT RECOMMENDED FOR PACEMAKER BEARERS as it may cause physical stresses that could compromise its efficacy.
	IRRESPECTIVE OF DIVING MODALITIES, THE RISK OF DECOMPRESSION SICKNESS (DCS) IS ALWAYS PRESENT, EVEN WHEN THE DIVING PLAN PROVIDED FOR IN THE TABLES OR BY THE COMPUTER IS STRICTLY COMPLIED WITH. No procedure, computer or decompression table can completely rule out the risks associated with oxygen toxicity or DCS.



EACH PERSON HAS A DIFFERENT PHYSIOLOGY, WHICH MAY CHANGE FROM ONE DAY TO THE NEXT. The dive computer cannot take such variations into due account. Cressi recommends close compliance with the dive limitations appearing on the computer with a view to minimising the risk of DCS. Before diving, Cressi recommends that you have a physician evaluate your physical fitness.



PACEMAKER BEARERS SHOULD SEE A PHYSICIAN BEFORE USING THE DIVE COMPUTER. The inductive frequency used by the computer could undermine the operation of the pacemaker.



CRESSI COMPUTERS CONFORM TO THE STANDARDS FOR THE SECTOR; HOWEVER, IF YOU WERE TO EXPERIENCE ANY ALLERGIC OR CUTANEOUS REACTIONS WHEN THE COMPUTER IS IN CONTACT WITH YOUR SKIN, TAKE IT OFF IMMEDIATELY AND SEE A DOCTOR.



NOT SUITABLE FOR PROFESSIONAL SCUBA DIVING. Professional or commercial diving could expose the diver to depths and conditions resulting in a greater risk of decompression sickness (DCS).



USE THE EMERGENCY BACK-UP INSTRUMENTS! Before diving, make sure you have all your emergency instruments with you: besides your dive computer, a depth gauge, an underwater manometer, a timer or a watch, and the decompression tables.



IF YOU SEE ANY CRACKS IN THE CRYSTAL OR SIGNS OF MOISTURE INSIDE, TAKE THE COMPUTER TO AN AUTHORISED CRESSI SERVICE CENTRE RIGHT AWAY.



A DIVE COMPUTER IS A DEVICE FOR PERSONAL USE ONLY AND SHOULD NEVER BE EXCHANGED OR SHARED WITH OTHER SCUBA DIVERS WHILE IT IS ON! The computer takes into account only the dives it makes. For the information supplied to the computer to be right, the profile of the device must be a perfect match of the profile of the dives made by the diver. If someone, in the course of a single session, makes several dives without wearing their computer, the data appearing on the computer during the following dives will not be reliable. No computer can take into account the dives it did not make.



DO NOT DIVE ALONE. At the end of a dive Cressi recommends that you remain in the company of other people for a prolonged period of time, as the onset of DCS symptoms may be delayed, or be triggered by activities carried out on land.



MAKE YOUR PRE-DIVE SAFETY CHECKS! Before diving, make sure that your dive computer is in perfect conditions and is properly configured, with the appropriate settings; make sure the display works, the power source is charged, etc.



WHILE DIVING, CHECK YOUR COMPUTER CONSTANTLY. If you notice any sign of malfunctioning, rise to the surface immediately in a safe manner. To ascend, follow the emergency procedures recommended by your authorized scuba diving center.



CRESSI DIVE COMPUTERS ARE INTENDED FOR SPORT AND RECREATIONAL ACTIVITIES, THEY ARE NOT TO BE USED FOR PROFESSIONAL DIVING!



BEFORE DIVING, ANALYSE PERSONALLY THE COMPOSITION OF THE GAS AND ENTER THE VALUES OBTAINED INTO YOUR DIVE COMPUTER. If you do not enter the value of the gas mixture contained in your diving cylinder, or enter erroneous data, your computer will generate erroneous information!



THE USE OF THIS DIVE COMPUTER DOES NOT REPLACE A DIVING COURSE. Diving with gas mixtures other than air poses hazards unknown to the divers who use air. Divers need specific training before they can dive with gases other than air.

EMERGENCY ASCENT

In the unlikely event of the computer malfunctioning during a dive, follow the emergency ascent procedures recommended by your authorized scuba diving center for a prompt and safe ascent.

3. GENERAL INFORMATION

The DaVinci dive computer (DaVinci) is designed for use as an auxiliary piece of diving equipment for recreational diving.



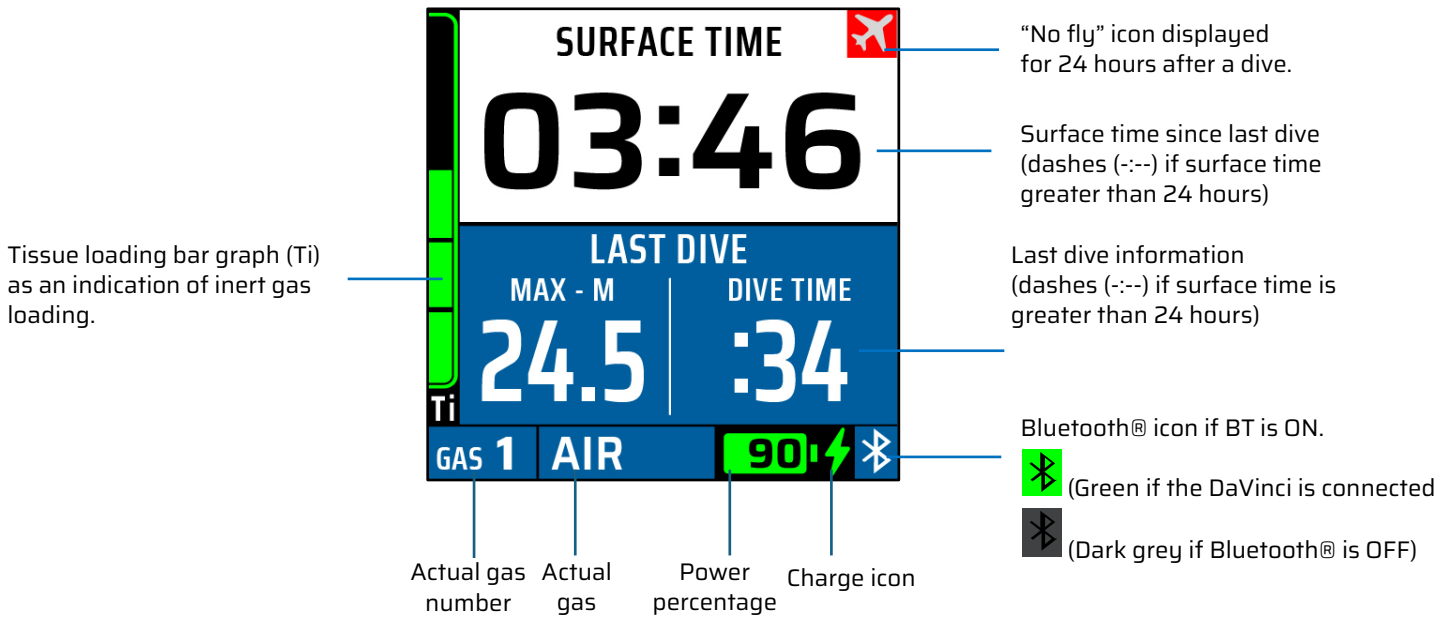
READ THIS MANUAL! Carefully read this instruction manual in its entirety. Make sure that you fully understand the use, displays and limitations of the DaVinci. Any confusion caused by improper use of this device may lead to serious injury or death.

The Safety section (Section 2) in the start of the manual should be used as a reference for the following sections.

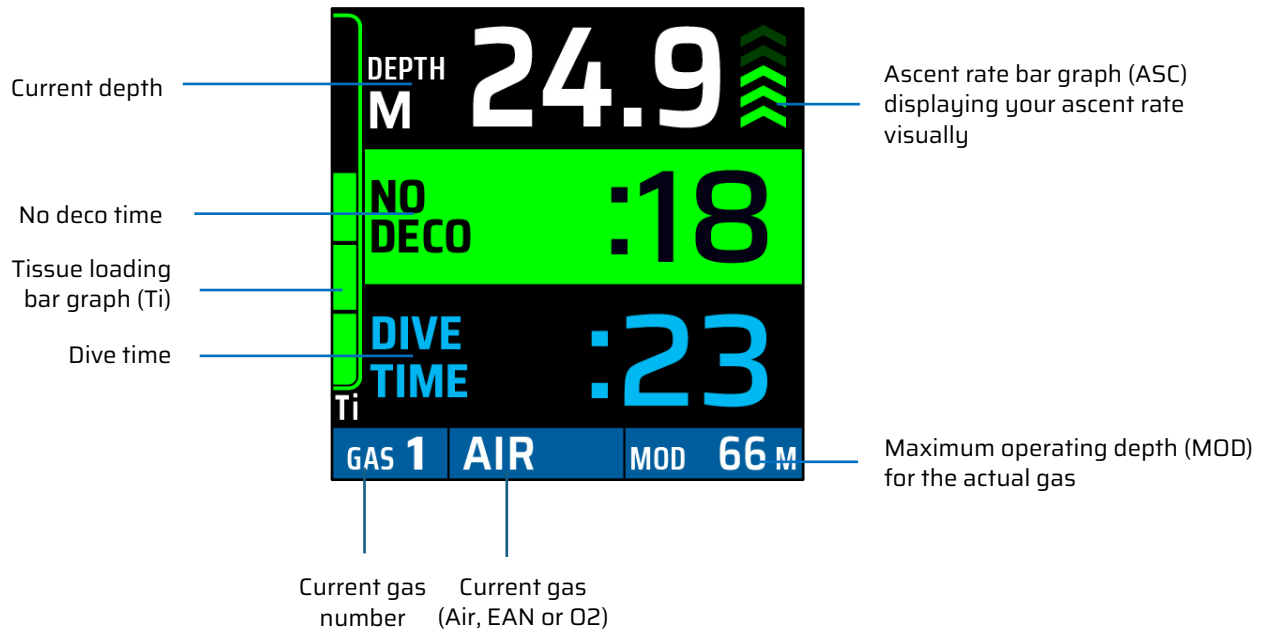
3.1. General Features

- 1.54" Color TFT-LCD screen
- Easy to use two-button interface
- Maximum operating depth 100 m / 330 ft
- Computer (with Air, Nitrox (EAN)) and Gauge modes.
- Bühlmann ZHL-16C based decompression model
- O2 Toxicity (Oxtox) tracking
- No Deco Limit (NDL) planner
- Customizable audible and visual alarms
- Programmable sample rates
- Storage of 60 dive logs in memory
- Dive log downloads via Bluetooth® using the DiveSync App
- Firmware updates via Bluetooth®
- Rechargeable power source
- Three-level conservatism adjustment based on gradient factors (GFs)
- User selectable Deep Stop and Safety Stops
- Automatic compensation for altitude up to 3300 m / 11000 ft elevation
- Screen brightness adjustment and auto dim function for energy saving
- Compass Mode and Compass on Main Surface and Dive screens

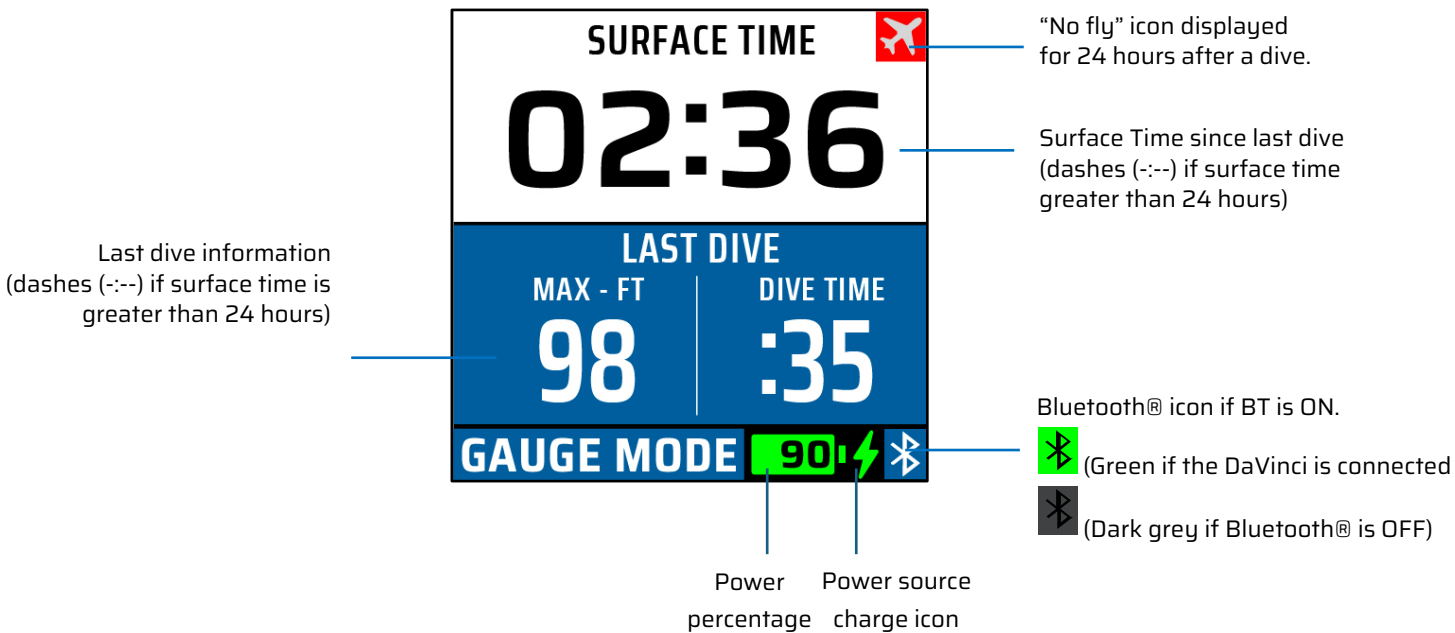
3.2. Information on Computer Surface Main Display



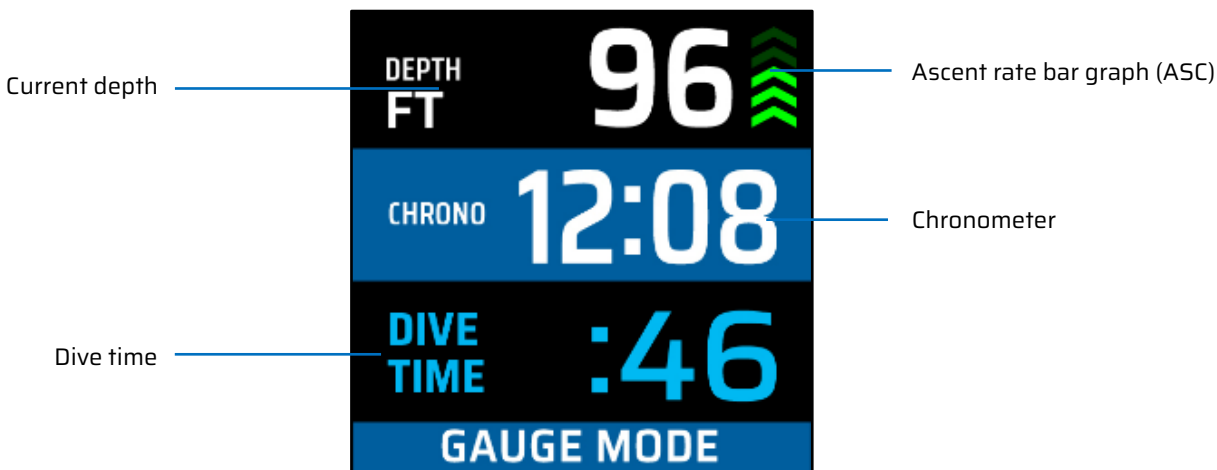
3.3. Information on Computer Dive Main Display



3.4. Information on Gauge Surface Main Display



3.5. Information on Gauge Dive Main Display

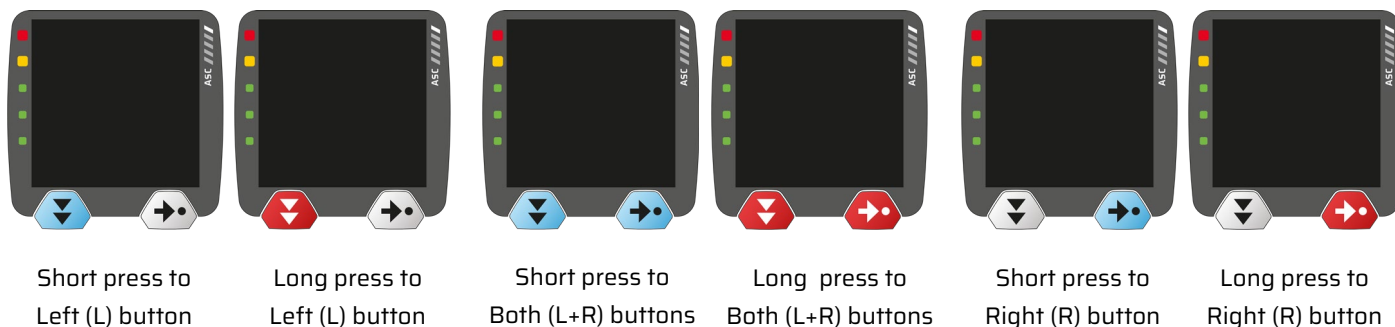


3.6. Button Operations

The DaVinci has two buttons: The Left (L) and Right (R) buttons. The functions of these buttons change depending on the duration of the button press.

If a button is pressed for less than 2 seconds, it is a “short press” and the short press is represented by a blue button in this manual. If a button is pressed for more than 2 seconds, it is a “long press” and the long press is represented by a red button.

Some operations require pressing both the Left and Right buttons simultaneously, which is shown as L+R.



Short press to
Left (L) button

Long press to
Left (L) button

Short press to
Both (L+R) buttons

Long press to
Both (L+R) buttons

Short press to
Right (R) button

Long press to
Right (R) button

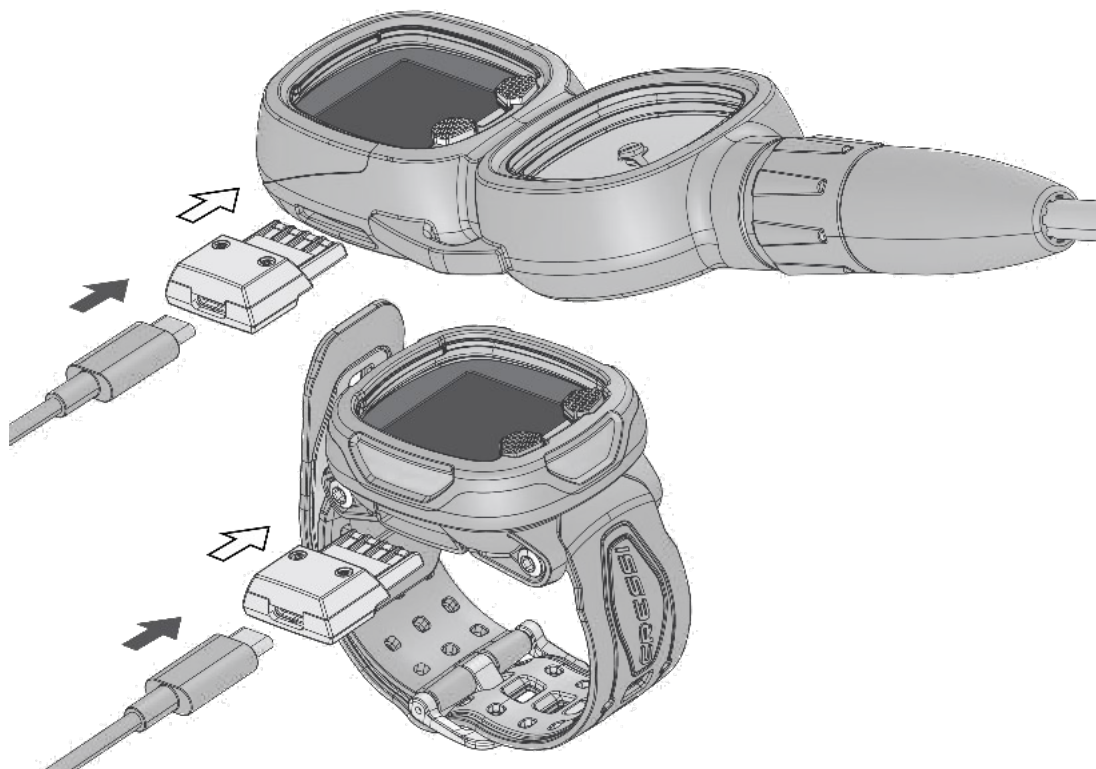
Button Functions

Left button (L):	Both buttons (L+R):	Right button (R):
<p><u>Short press:</u></p> <ul style="list-style-type: none"> • Open Main Menu • Advance (go down) in Menus • Advance (next depth) in Plan (hold to scroll 8/s) • Change/Increase set points (hold to scroll 8/s) • Start/Stop Chronometer <p><u>Long press:</u></p> <ul style="list-style-type: none"> • Open Brightness during dive or in Compass Mode. 	<p><u>Short press to both buttons:</u></p> <ul style="list-style-type: none"> • Back to Main Screen from anywhere • Reset Chronometer <p><u>Long press to both buttons:</u></p> <ul style="list-style-type: none"> • Add/Remove Compass on Main 	<p><u>Short press:</u></p> <ul style="list-style-type: none"> • Open/Enter to a Menu/Setting/Info Page • Save a flashing set point and back to menu (or save and flash next set point) • Open and advance in Alt Displays • Open and advance in Logbook Pages • Acknowledge alarms <p><u>Long press:</u></p> <ul style="list-style-type: none"> • Back to previous menu or to the Main Screen • Back to previous Alt/Log/Preview Display (or Main) • Decrease/change a flashing set point • Open/Back from compass (when in Main)

4. SETUP YOUR DAVINCI

4.1. Activation from Deep Sleep

The DaVinci is placed in a Deep Sleep mode prior to being shipped with the intent to extend storage life of the power source. To activate the DaVinci, connect the provided Cressi 4-pin USB-C adapter into the DaVinci charging port. Plug the USB-C connector to a power source for charging and the display will automatically activate. This is a onetime process you do not have to repeat.



Only use the Cressi DaVinci provided 4-pin USB-C adapter to charge the DaVinci. Once the DaVinci is activated, Deep Sleep mode is permanently disabled and cannot be reactivated.

4.2. Getting started

The DaVinci comes with default settings (Section 11.2) enabled. Before diving, ensure that all settings are set up and personalized to your dive profile.

1. Press the L button until SET DEVICE appears in the middle of menu (highlighted).
2. Enter SET DEVICE menu pressing the R button.



3. Set Brightness. See Section 4.2.1.
4. Set Auto Dim. See Section 4.2.2.
5. Set Date and Time. See Section 4.2.3.
6. Set Units to Metric or Imperial. See Section 4.2.4.
7. Set Bluetooth® ON or OFF. See Section 4.2.5.
8. Set Sound. See Section 4.2.6.
9. Set Compass. See Section 4.2.7.

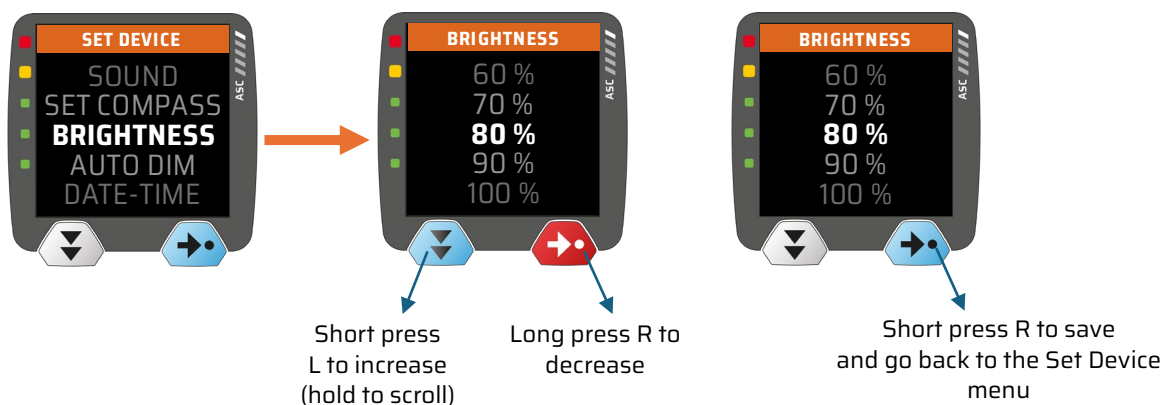
Long press the R button to exit settings and go back to the main menu.



Press down on both L and R buttons simultaneously to return to the main screen from any menu.

4.2.1. Brightness

The DaVinci allows adjustment of the screen brightness. Enter the Set Device menu and select BRIGHTNESS to set the brightness to your preference.

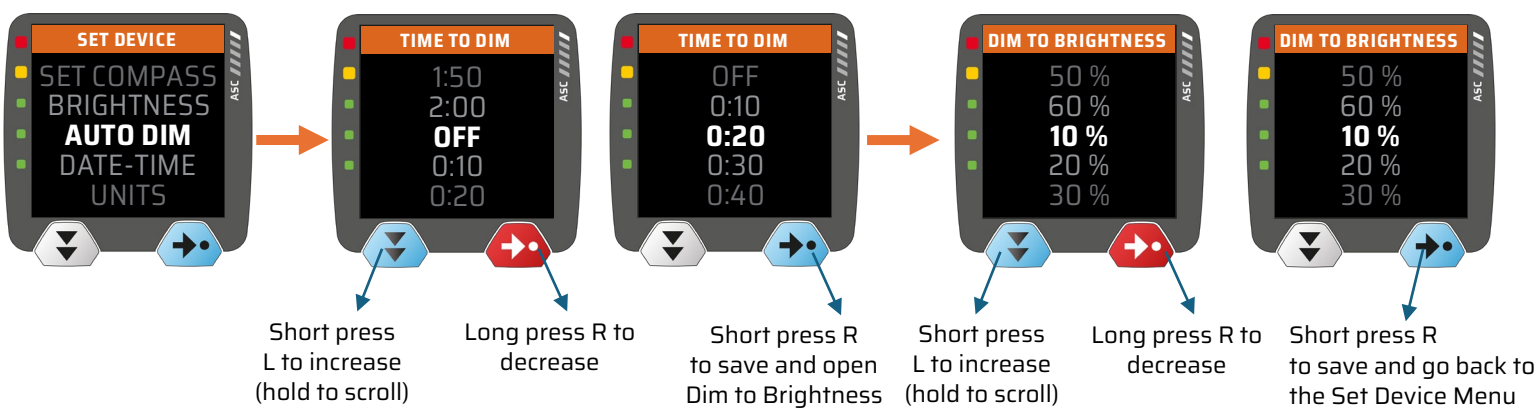




If power drops to 15% (warning level), the brightness will be set automatically to 60% (if it was set higher than 60%). If power drops to 2% (alarm level), the brightness will be set automatically to 30% (if it was set higher than 30%). After the power source is charged, the brightness will be set to the level user set.

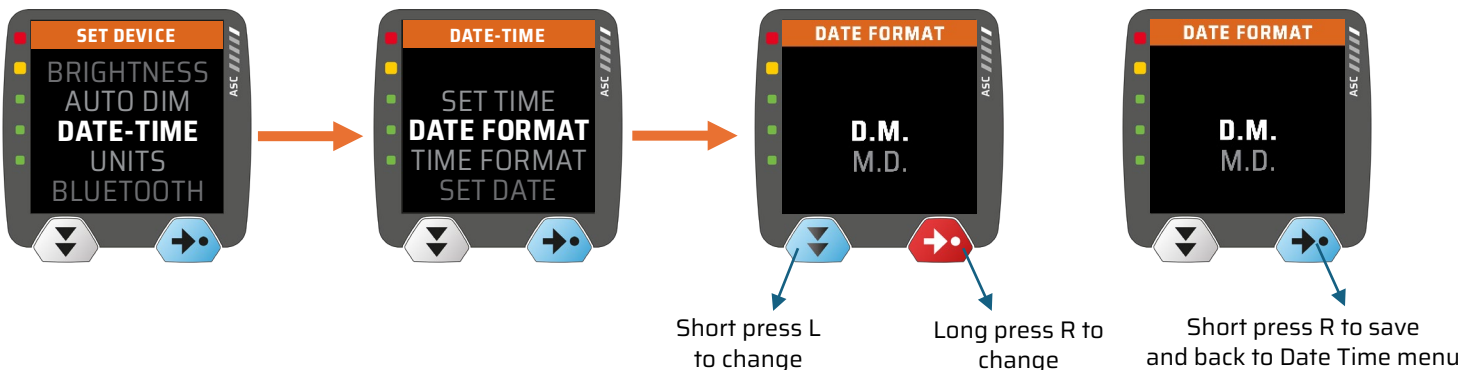
4.2.2. Setting Auto Dim

To save power, you can set a time for your screen brightness to decrease automatically when there is no button action. You can set the AUTO DIM time from 10 seconds to 2 minutes (or set it OFF) and dim the brightness level from 10% to 60%.

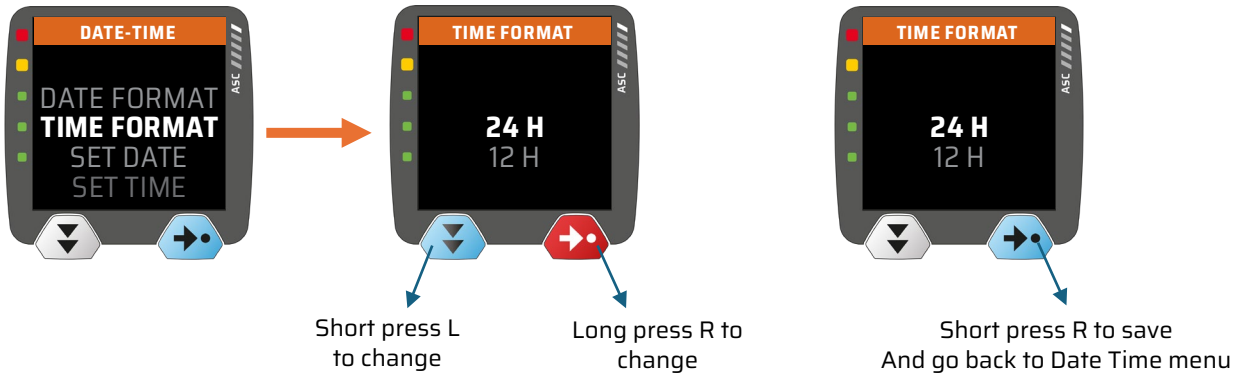


4.2.3. Setting Date and Time

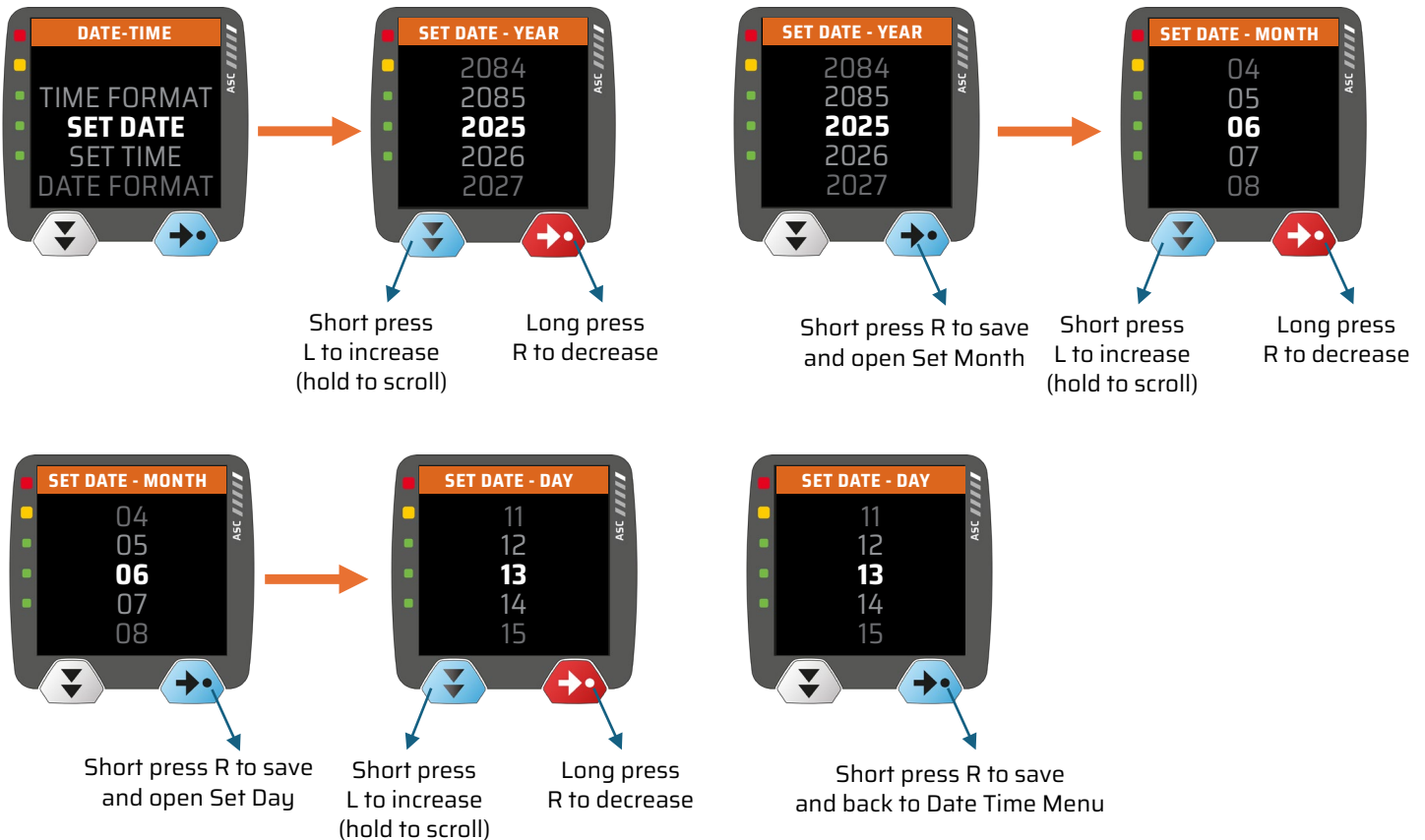
When the DATE TIME menu is highlighted, press the R button to enter the menu. The first setting in menu is DATE FORMAT. You can set the date format to be in day and month (D.M.) or month and day (M.D.) order.



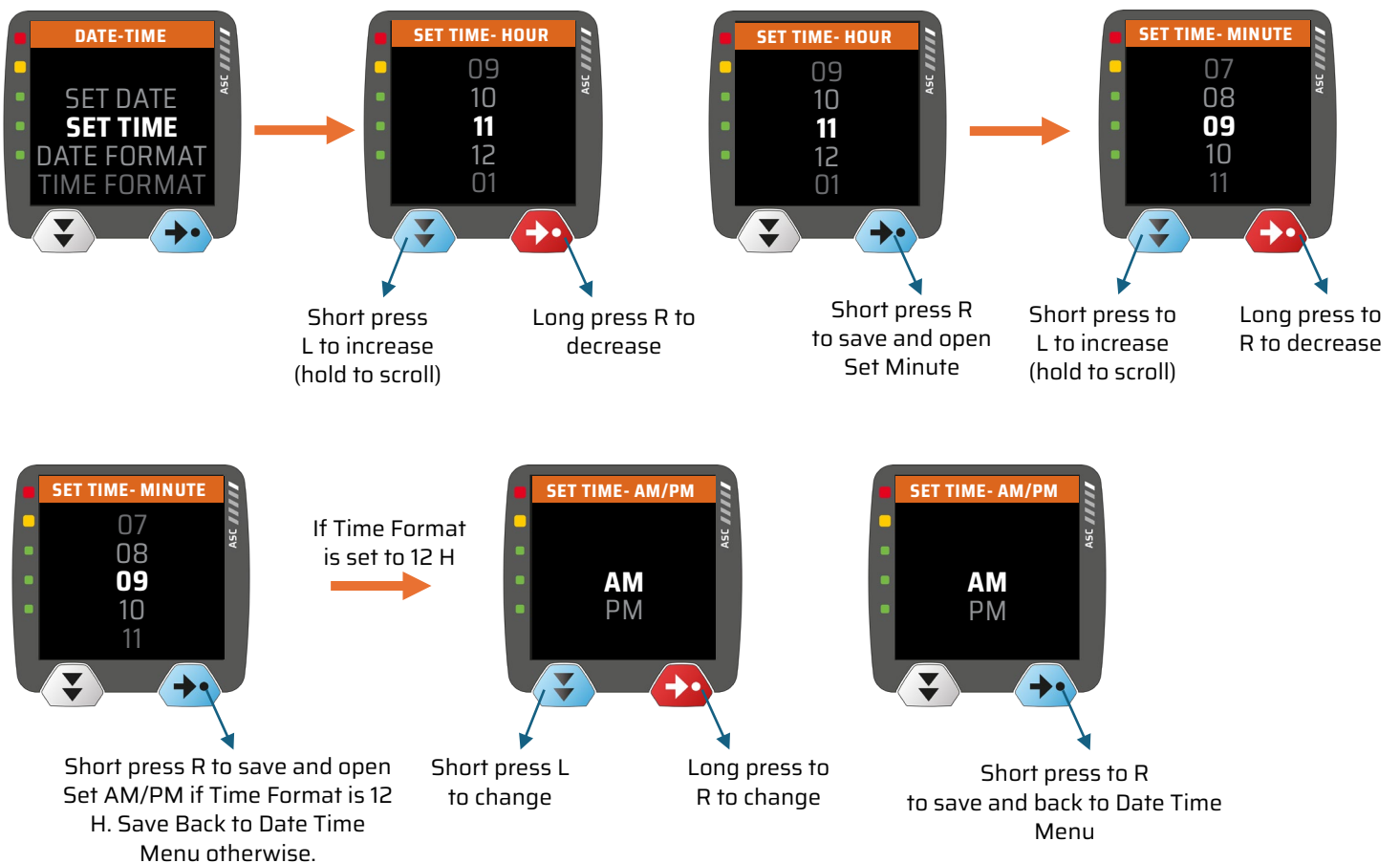
You can set the TIME FORMAT for 12 hours (am/pm) or 24 hours.



To set the date, short press R when SET DATE is highlighted. You will first set the year, then the month and day.



After the day is set and saved, operation will go back to the DATE TIME menu. To set the time, first set the hour, then the minute. If the time format is set to 24 H, go back to the DATE TIME menu after minute is saved. If the time format is set to 12 H, set AM/PM after minute is saved and go back to DATE TIME menu after AM/PM is saved.



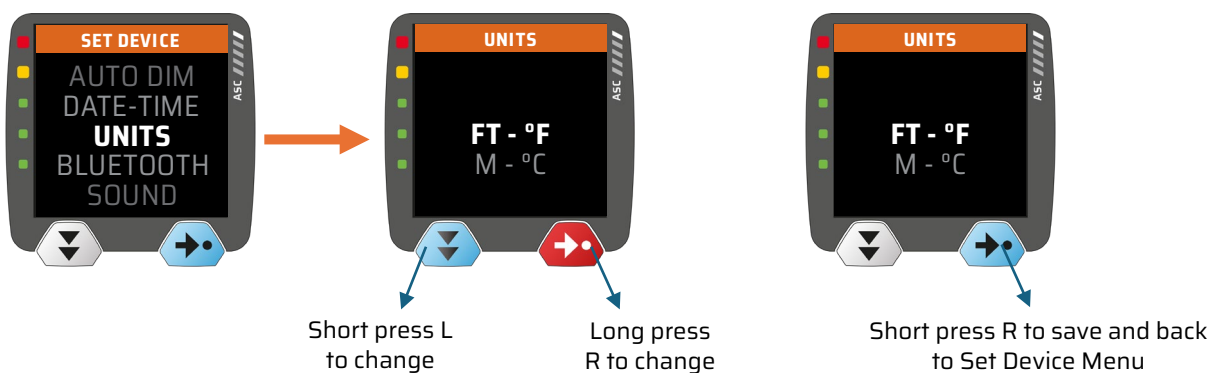
4.2.4. Setting Units

The DaVinci enables you to use imperial or metric units for monitoring depth and temperature. You can set the units using the SETTINGS menu.

Select FT - °F for the depth to be displayed in feet (ft) and temperature in degrees Fahrenheit (°F). If you set the units to M - °C, depth will be displayed in meters (m) and temperature will be displayed in degrees Celsius (°C).



BE SURE THAT YOU SET THE UNITS CORRECTLY. Confusion in units setting may cause erroneous depth readings by the diver which may cause dive accidents.

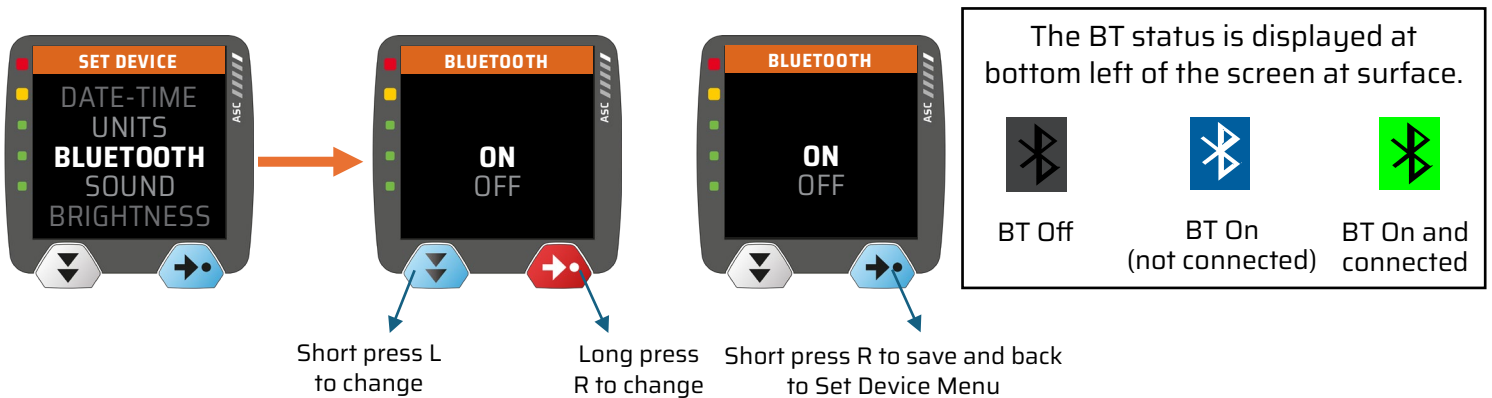




The settings you made in FT - °F units are not affected by the changes made in M - °C units. For example, if you set the depth alarm to 80 feet, then you switch to M - °C units and set the depth alarm to 40 meters, the depth alarm will still be 80 feet when you switch back to FT - °F. Similarly, the settings you made in M - °C units are not affected by the changes made in FT - °F units.

4.2.5. Bluetooth®

The DaVinci connects wirelessly with the DiveSync App via Bluetooth® to transfer dive logs to a mobile device, manage DaVinci settings, and update the firmware. You can activate and deactivate Bluetooth® using the SET DEVICE menu.

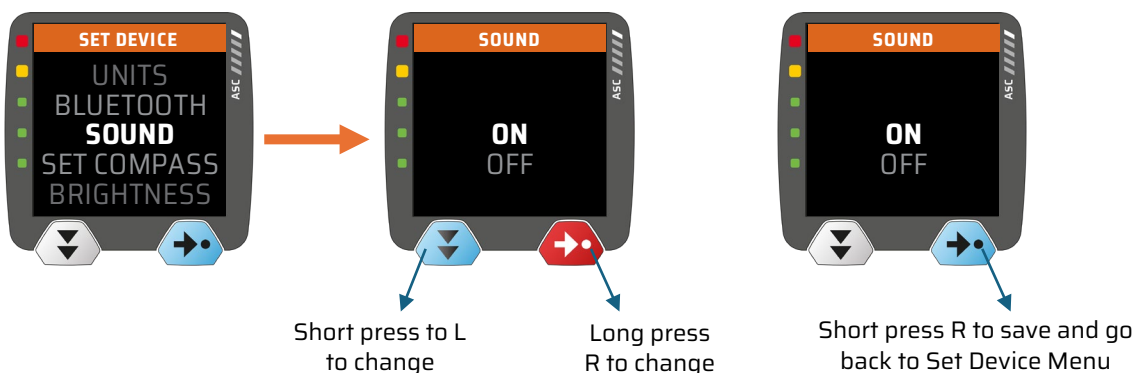


When a connection request comes from the Divesync App, a passcode will be displayed on the screen. After confirming the passcode, the DaVinci will connect to DiveSync.



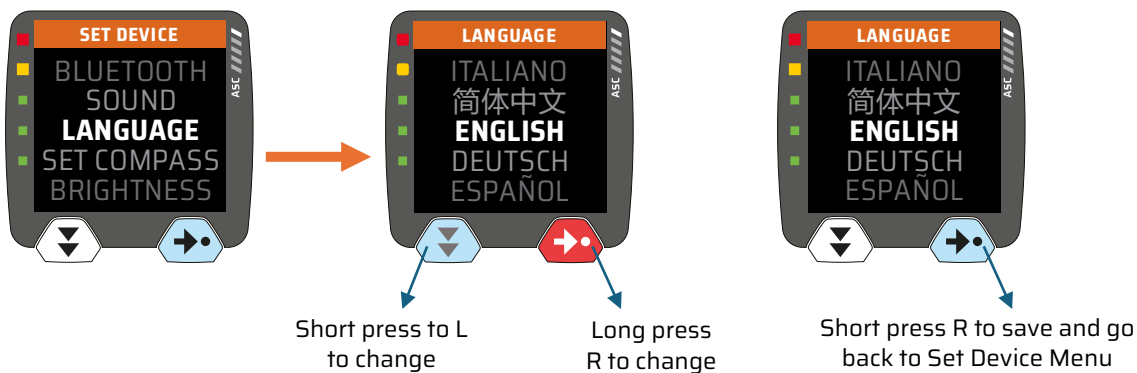
4.2.6. Setting Sound ON or OFF

The DaVinci warns the user with audible alarms. You can set the sound ON and OFF using the SET DEVICE menu selecting SOUND.



4.2.7. Setting Language

You can set the DaVinci language to English, German, Spanish, French, Portuguese, Italian and Simplified Chinese. To set the language, select LANGUAGE in SET DEVICE menu*.



*Languages will be Available in Q3/Q4 2026 via firmware update on the DiveSync App.

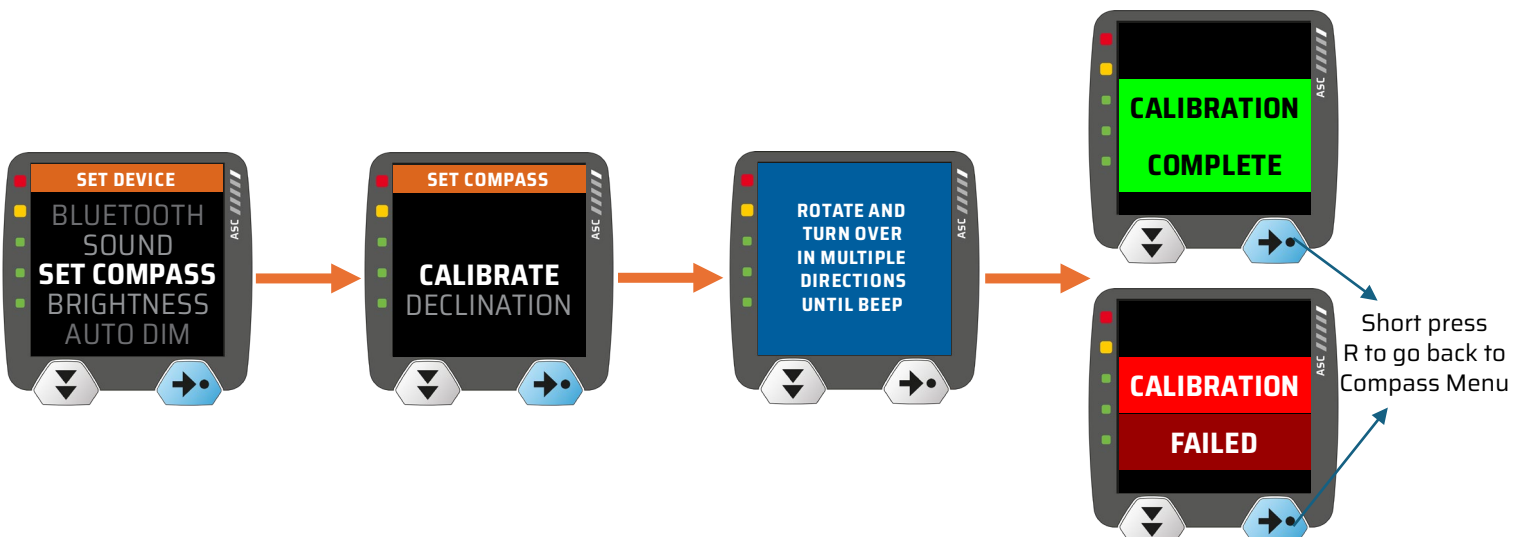
4.2.8. Setting Compass

4.2.8.1. Compass Calibration

To calibrate the compass or set declination from true north, enter SET COMPASS from SET DEVICE menu. If compass calibration is required, when you open the Compass Mode, the DaVinci will show the message “Compass not calibrated”.



In this case, you have to calibrate the compass before using it following the instructions given below:

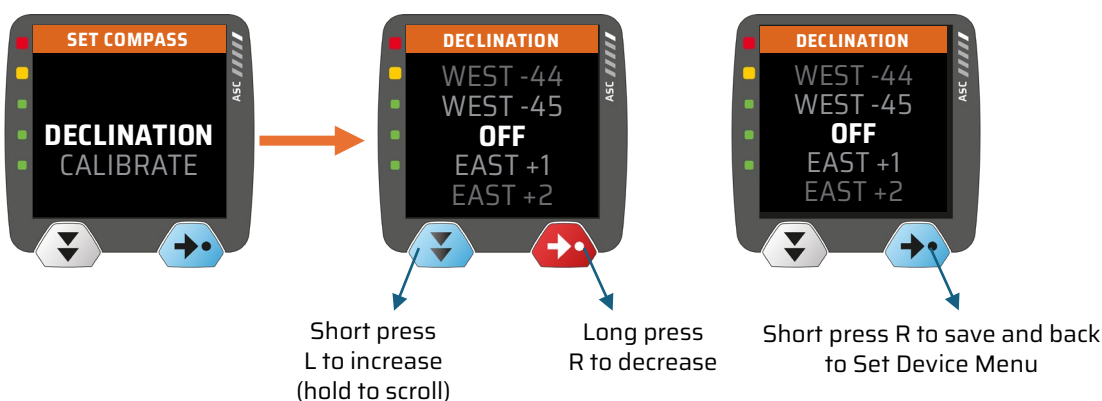


Select CALIBRATE from the SET COMPASS menu then rotate and turn over your DaVinci as in the message displayed until the Calibration Complete message is displayed. If calibration fails, the message CALIBRATION FAILED message will be displayed. Short press R to go back to the Compass menu.

4.2.8.2. Setting Declination

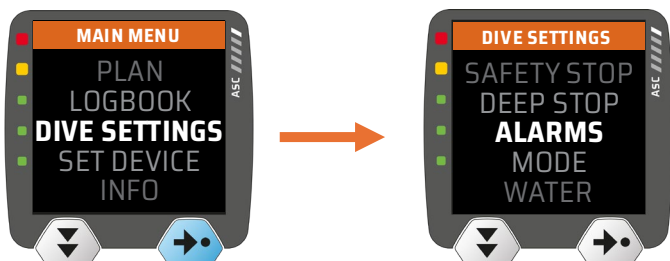
Magnetic declination, sometimes called magnetic variation, is the angle between magnetic north and true north. Declination is positive east of true north and negative when west. Magnetic declination changes over time and with location. As the compass points with local magnetic fields, declination value is needed to obtain true north

To set the declination from the true north, select DECLINATION from SET COMPASS menu.



4.3. Setting Dive Parameters

You can set dive parameters using the DIVE SETTINGS menu. Enter the DIVE SETTINGS menu from the Main menu to set alarms, dive mode, water type, sample rate for dive profile logging, gases to be breathed during dive, conservatism level, safety stop and deep stop.



SETTING DIVE PARAMETERS CORRECTLY IS EXTREMELY IMPORTANT. Failure in setting dive parameters to suit the dive to be made may cause serious injuries and death.

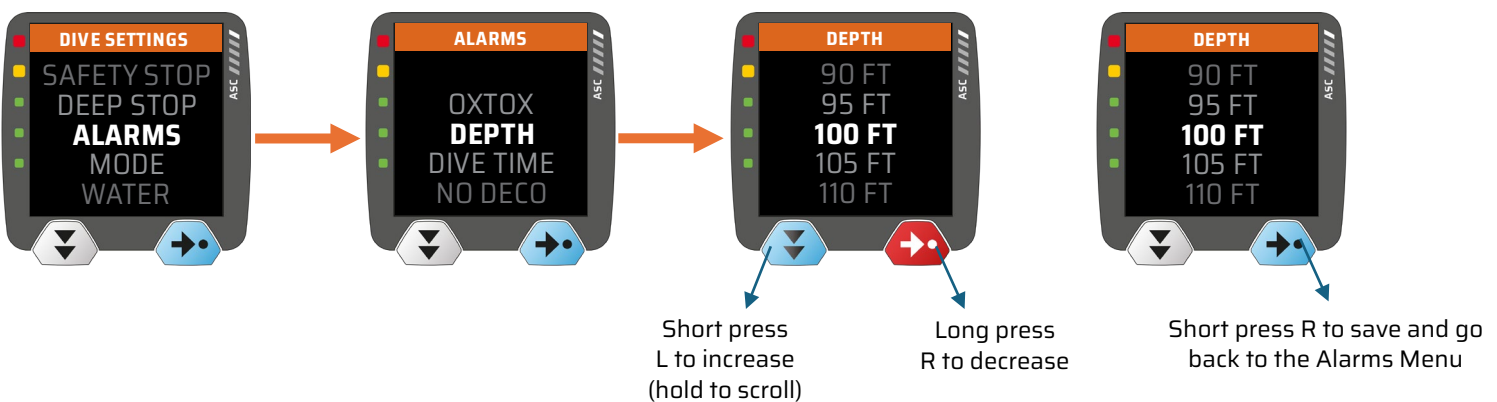
4.3.1. Setting Alarms

You can set alarms that are common to Computer and Gauge mode (Depth alarm in Section 4.3.1.1 and Dive time alarm in Section 4.3.1.2). The alarms specific to Computer Mode are No Deco time (Section 4.3.1.3), Oxygen Toxicity (Oxtox) (Section 4.3.1.4) alarms.

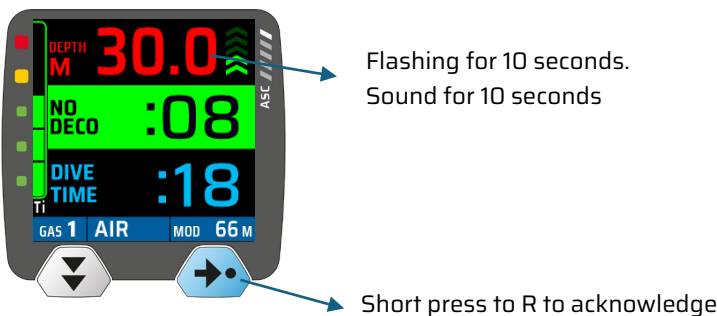
During an alarm, there will be an alarm sound every second for 10 seconds. The alarm sound can be stopped by acknowledging the alarm by short pressing the R button.

4.3.1.1. Depth Alarm

The DaVinci enables you to set a depth alarm. The depth alarm will be displayed if set ON, at the depth you set. To set the depth alarm, enter the ALARMS menu from DIVE SETTINGS menu. Select DEPTH. You can set the depth alarm to OFF or set the depth from 10 to 100 m with 1 m increments (30 to 330 ft with 5 ft increments).

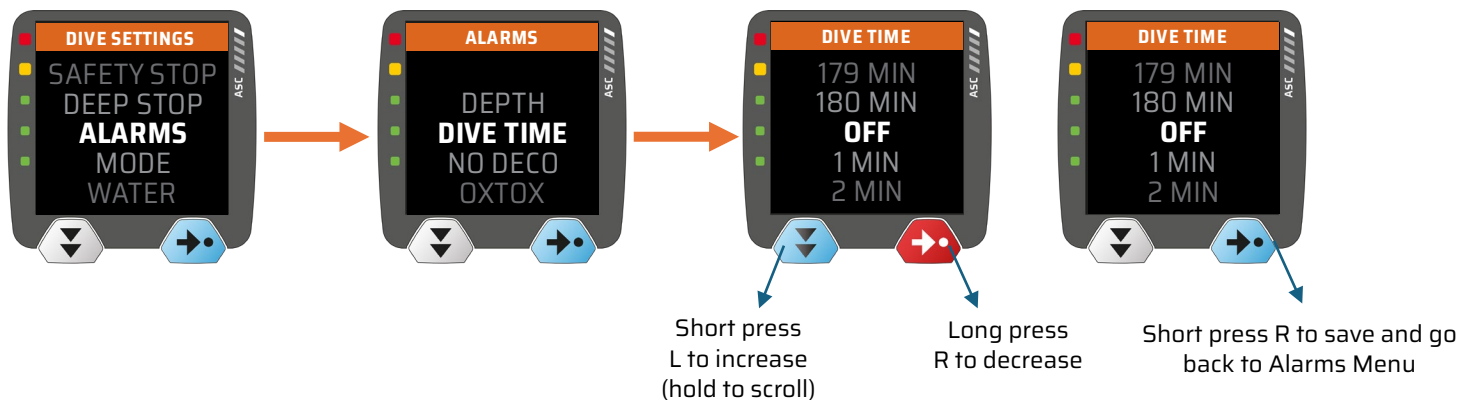


If you set the depth alarm to ON, an audible alarm will sound and the message “DEPTH” (and depth digits) will flash red until acknowledged or until you ascend shallower than the alarm depth. After the alarm sounds, the depth digits will remain red until you ascend shallower than the alarm depth.

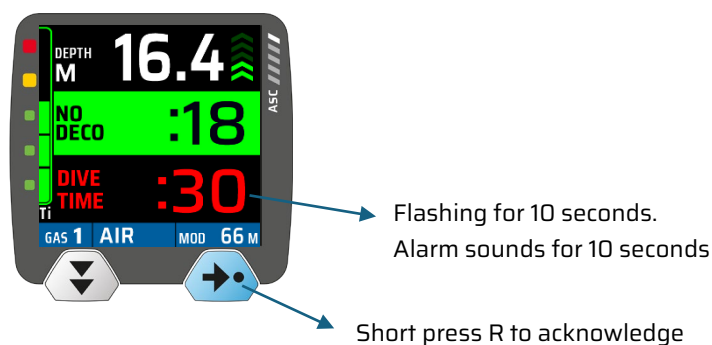


4.3.1.2. Dive Time Alarm

The DaVinci enables you to set a dive time alarm. The dive time alarm will be displayed if set to ON at the time you set. To set the dive time alarm, enter the ALARMS menu from the Main menu. Select DIVE TIME. You can set the dive time alarm to OFF or from 1 to 99 minutes with 1-minute increments.



If you set the dive time alarm to ON, when the time set elapses, the DIVE TIME screen and Dive Time Digits will flash with the audible alarm for 10 seconds or until acknowledged. The dive time digits will remain red until surfacing.



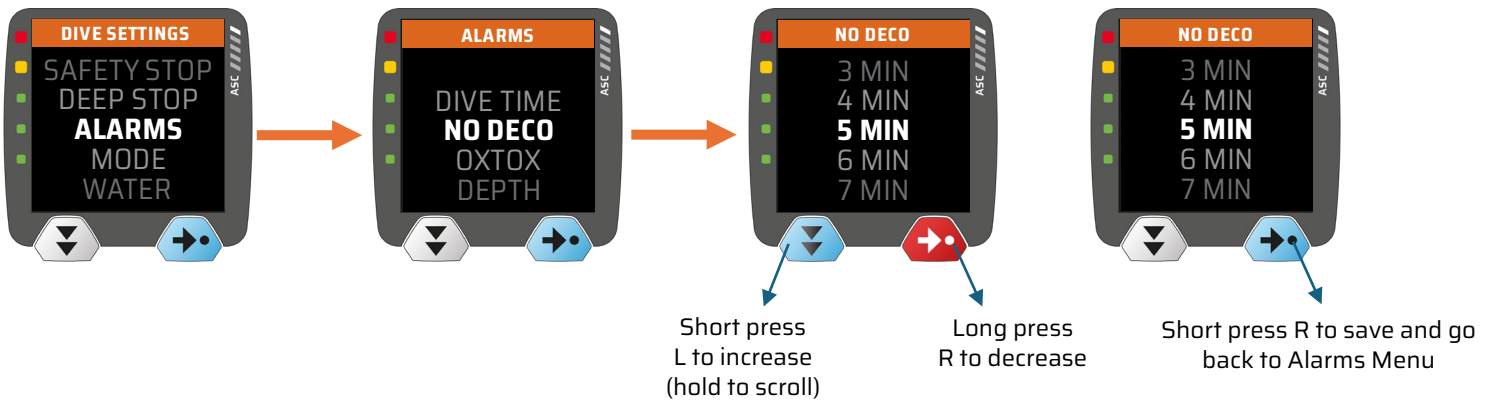
4.3.1.3. No Deco Alarm

The DaVinci will show deco stop depth and time instead of no deco time if your current gas loading necessitates performing a deco stop before surfacing.

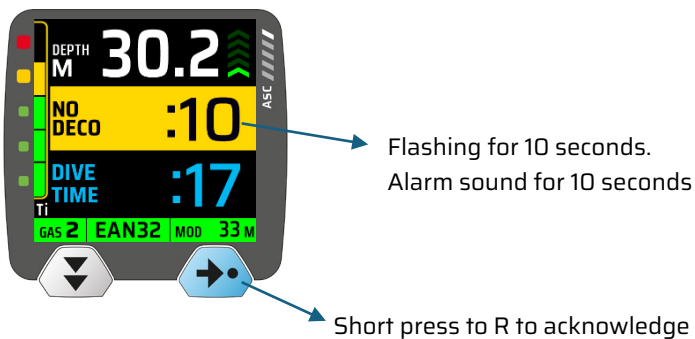
Although when the no deco time is greater than 0:00, you can begin to ascend and surface without a deco obligation, we highly recommend putting a safety margin and begin to ascend before no deco time is close to 0:00.

The DaVinci enables you to set a no deco alarm. The no deco alarm will be displayed when no deco time decreases to the alarm you set.

To set the no deco alarm, enter the ALARMS menu from the main menu. Select NO DECO. You can set the no deco alarm from 1 to 30 minutes with 1-minute increments. The no deco alarm cannot be set to OFF.



If no deco time decreases to alarm level set, the no deco time digits (on yellow background) will flash with an audible alarm or until acknowledged or the No Deco Time becomes greater than the alarm value then solid. The No Deco background will remain yellow until deco entry or No Deco becomes greater than the alarm value.



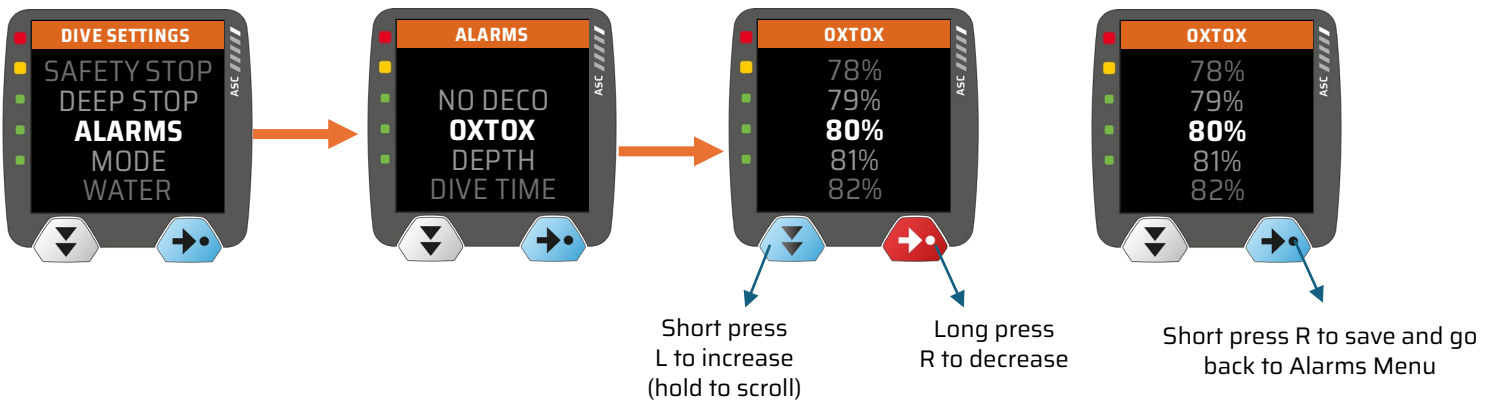
DO NOT ALLOW NO DECO TO BE 0:00. Begin to ascend at the time no deco alarm sounds (or preferably earlier).

4.3.1.4. Oxtox Alarm

Oxtox (Oxygen Toxicity) during a dive is displayed as an alternative display as a percentage of allowed saturation identified by the OXTOX message. Oxtox is displayed at surface, in computer mode in ALT 2 (alternative display 2) at surface, and ALT (alternative display) during a dive. When in the Main Display, press the R button to navigate to the alternative displays.



The limit for Oxtox (100%) is set at 300 OTU (Oxygen Toxicity Units) per dive or for a 24-hour period. The DaVinci enables you to set an Oxtox alarm OFF or from 60% to 99% with 1% increments. The Oxtox alarm exists only in Computer mode. To set the Oxtox alarm, enter the ALARMS menu from the Main menu and select OXTOX.

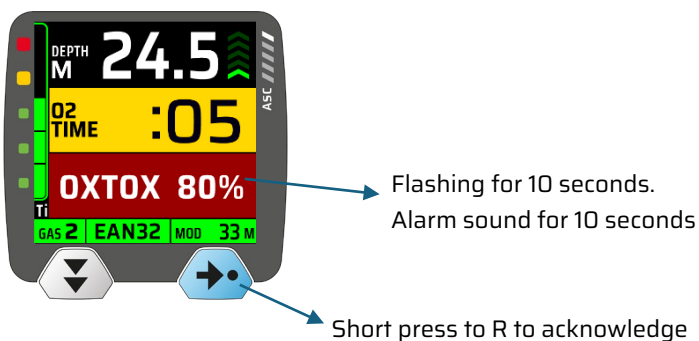


If Oxtox reaches the Alarm set point, the Oxtox Alarm will be triggered if it is set to ON. The Oxtox Alarm will be triggered at 100% even it is OFF.

“OXTOX” (current Oxtox value) will flash on a dark red background during audible or until acknowledged or Oxtox is smaller than the alarm value set. If Oxtox is greater than 100%, “OXTOX” (current Oxtox value) will remain flashing until the Oxtox percentage becomes lower than 100% even if acknowledged.



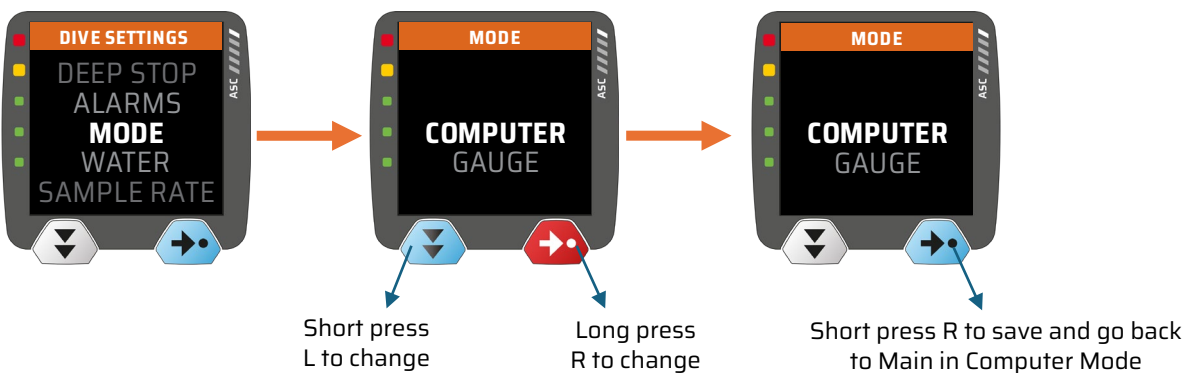
DO NOT ALLOW OXTOX TO BE 100%! Check the Oxtox displayed at ALT 2 (Press R button 2 times when on Dive Main) often and begin to ascend when the Oxtox Alarm sounds (or preferably earlier). Exposure to high amounts of oxygen may cause serious injuries and death.



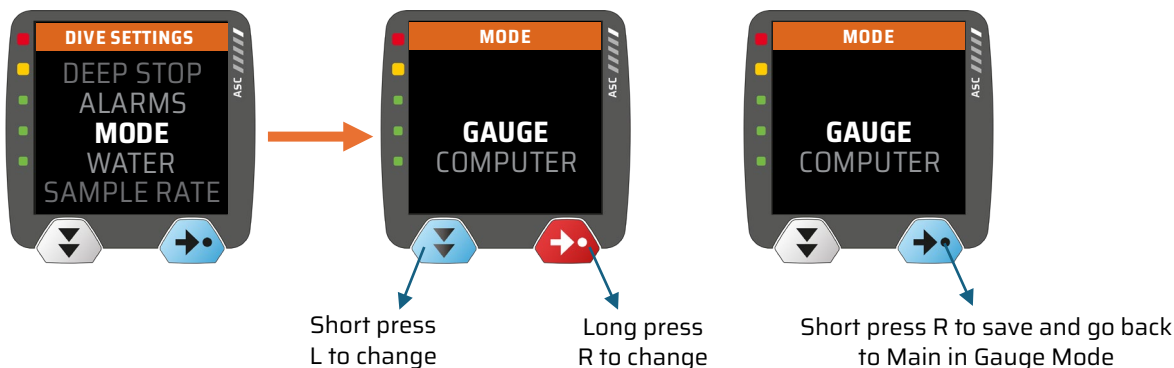
4.3.2. Setting the Dive Mode

The DaVinci has two operational modes:

Computer Mode for open circuit dives with air and enriched air nitrox (EAN) concentrations from 22% to 100% oxygen is intended to provide decompression related information such as no deco time remaining, critical tissue saturation (graphically), deco stop(s) deep stop, safety stop, time to surface, no fly time and time to desaturation, as well as oxygen toxicity related information such as partial pressure of O₂ (PPO₂), oxygen toxicity (O₂tox), oxygen time remaining, maximum operating depth (MOD) for the gases set. The DaVinci enables users to set four different gases and to switch from one gas to another during a dive. To set the DaVinci to Computer Mode, select MODE in DIVE SETTINGS menu, select COMPUTER and save (and go back to Main in Computer Mode).



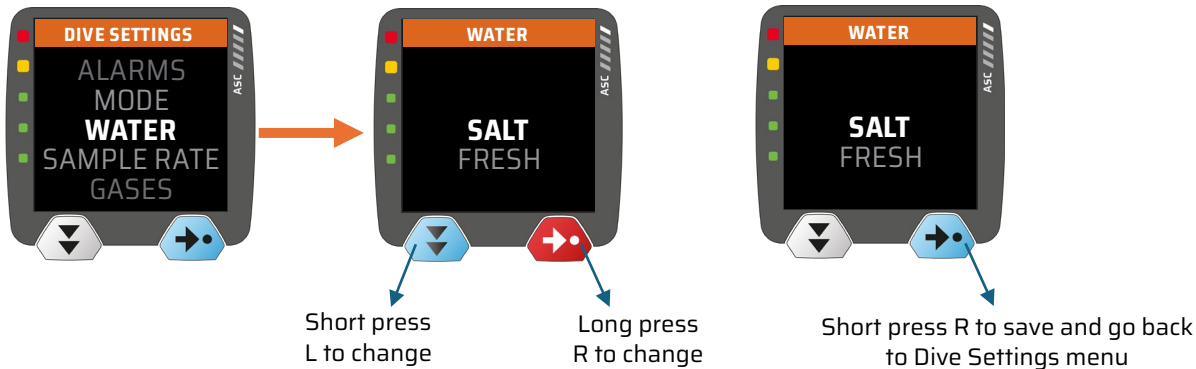
Gauge Mode is for the diver who intends to use the DaVinci as a depth gauge and timer. To set the DaVinci to Gauge Mode, select MODE in DIVE SETTINGS menu, select GAUGE and save (and back to Main in Gauge Mode).



Both modes provide depth, ascent rate (graphically), dive time, altitude, time, and date information. Both modes share the same setting for water type (see Section 4.3.3) and sample rate (see Section 4.3.4). On the other hand, the following settings are only related to the Computer Mode: setting the breathing gases (see Section 4.3.5), adjustment of the conservatism level of the algorithm (see Section 4.3.6), setting the safety stop (see Section 4.3.7), setting the deep stop (see Section 4.3.8).

4.3.3. Selection of Salt or Freshwater

The DaVinci enables you to set the type of water you will dive in. To set SALT, select WATER in DIVE SETTINGS menu, select SALT and save. If you will dive in fresh water, set WATER to FRESH.

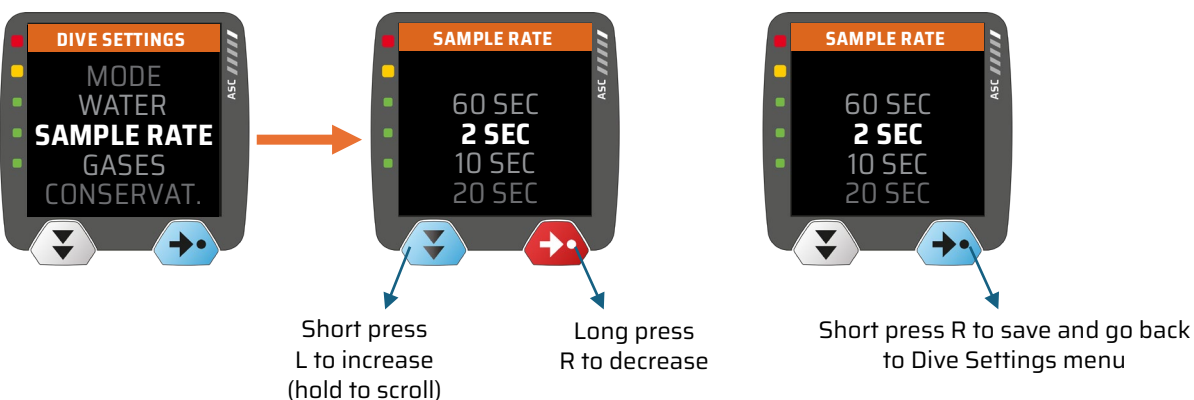


BE SURE THAT YOU SET THE WATER TYPE CORRECTLY. Decompression and oxygen related calculations are affected by the water type. An incorrect water type setting will cause the depth reading and ambient pressure related calculations to be erroneous and may cause serious injuries and death.

4.3.4. Selection of the Sample Rate

The sample rate controls how often information from the dive is saved to the active log. The default sample rate is 10 seconds, and can be set to 2, 10, 20 or 60 seconds.

To set the sample rate, select SAMPLE RATE in the DIVE SETTINGS menu.



If you are planning to analyze your dive profile after transferring it to the DiveSync App, a lower sample rate will be more suitable, as your dive profile will be recorded in higher detail.

4.3.5. Setting the Breathing Gases

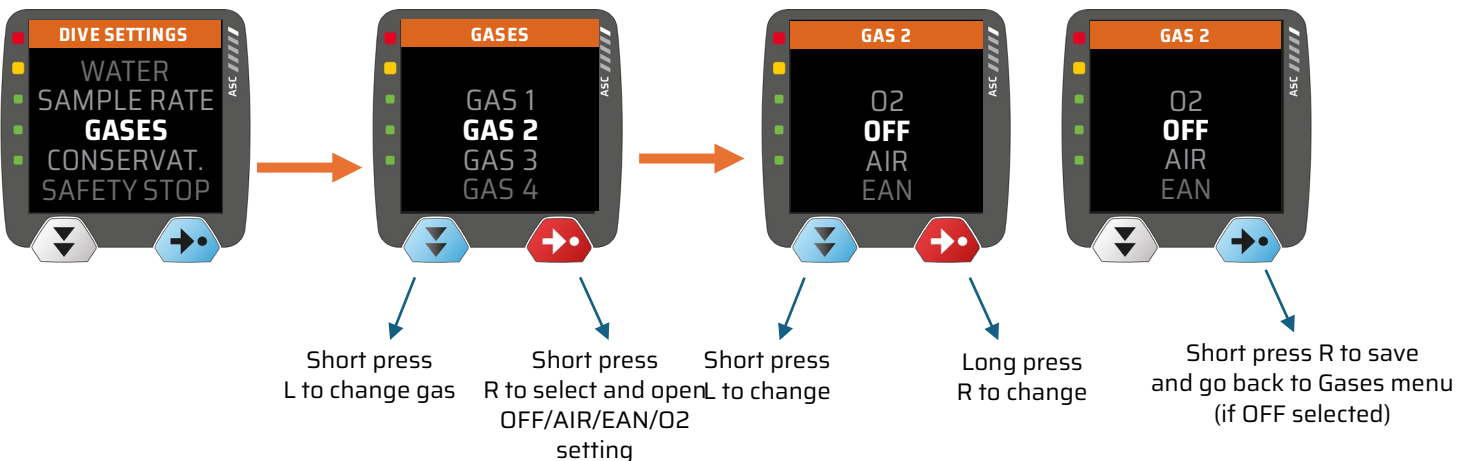
The DaVinci enables you to set 4 different gases and switch from a gas to another during dive. These gases can be set to Air or Enriched Air Nitrox (EAN). For Air, just set AIR for the gas you will use during dive. You can also set the gases to nitrox by selecting EAN22 to EAN99. To set a gas to 100% oxygen, just select O2. A dive always starts with GAS 1. If a dive ends with another gas, GAS 1 will become the active gas 10 minutes after surfacing.



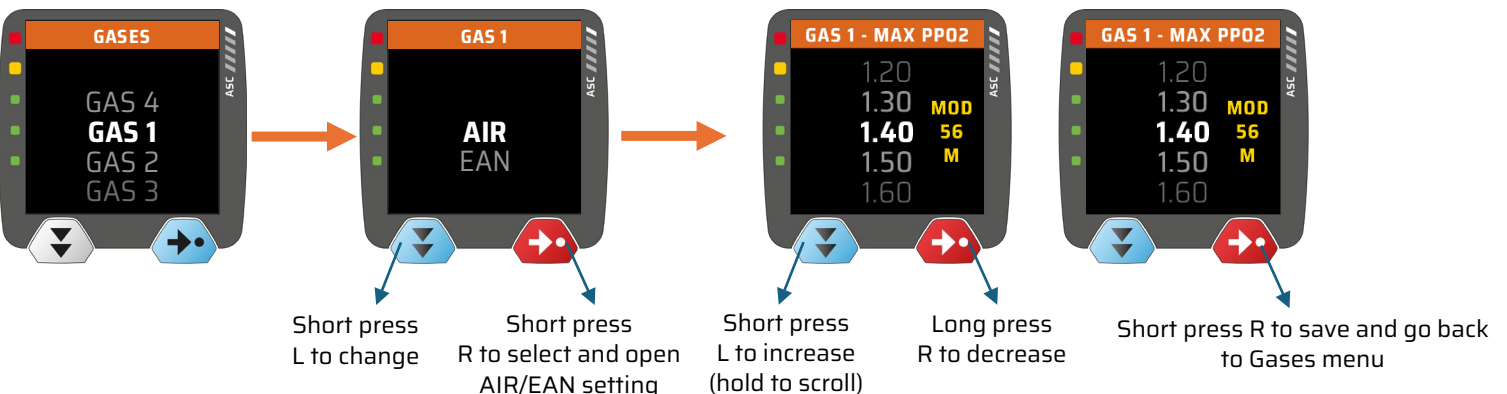
GAS 1 cannot be set to OFF and if you set GAS 2 to OFF, GAS 3 and GAS 4 will be set to OFF automatically and you cannot set it unless you set GAS 2 to ON. Similarly, if you set GAS 3 to OFF, GAS 4 will be set to OFF automatically and you cannot set it unless you set GAS 3 to ON



GAS 1 cannot be set to 100% oxygen (O2). You can set GAS 2, GAS 3 and GAS 4 to O2 and switch to these gases during a dive.



To set the gases, select GASES from the DIVE SETTINGS menu, select the gas and set it to AIR, EAN or O2 (or OFF except GAS 1 that cannot be set to OFF).



If you set a gas to AIR or O2, you will set the MAX PPO2 allowed after saving AIR or O2. You can set the MAX PPO2 from 1.00 to 1.60 and maximum operating depth (MOD) for the gas will be displayed at right. After saving the MAX PPO2, the screen will go back to the Gases menu.

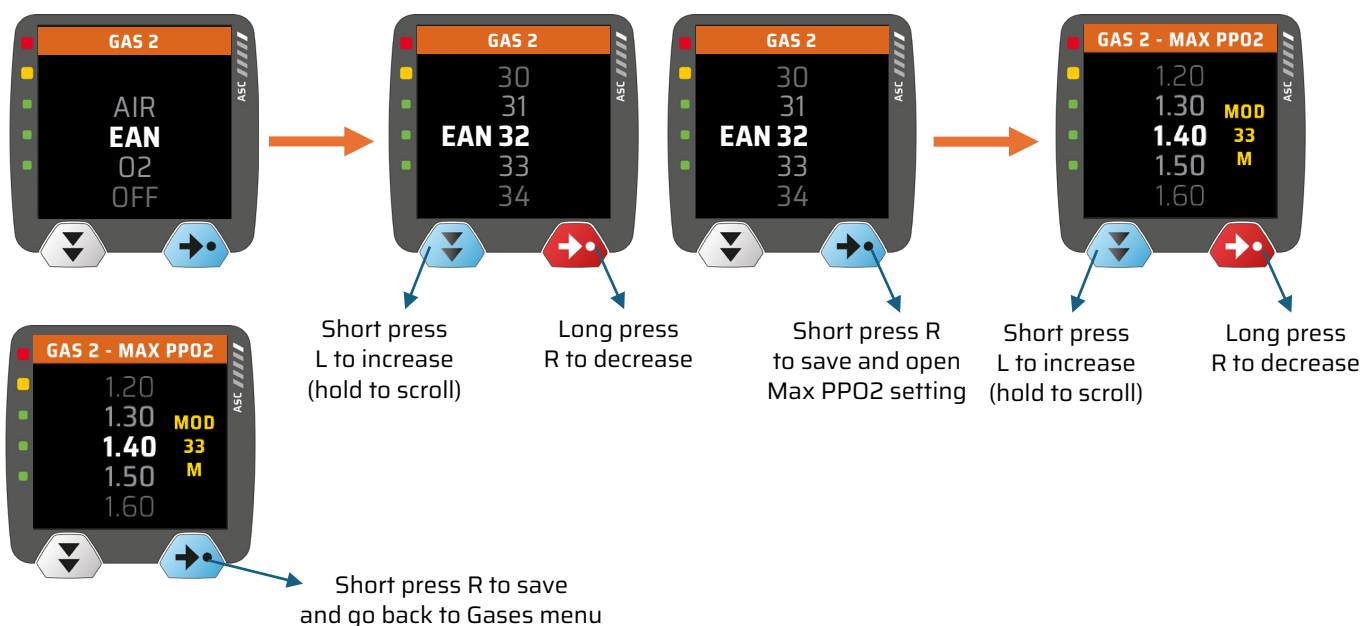


BE SURE THAT YOU SET THE GASES TO MATCH THE GASES IN YOUR TANKS. Any difference in oxygen percentage with the gas in tank and gas you set in DaVinci will cause incorrect decompression and oxygen toxicity calculations which may cause serious injuries or death.



DO NOT DIVE DEEPER THAN THE MAXIMUM OPERATING DEPTH (MOD) DISPLAYED AT RIGHT WHILE SETTING A GAS. Going deeper than the max depth for the gas you are using, may cause oxygen toxicity related accidents, injuries, and death

If you select EAN, you will set the oxygen fraction (FO2 - from 22% to 99%). After saving the EAN setting, the MAX PPO2 must be set.



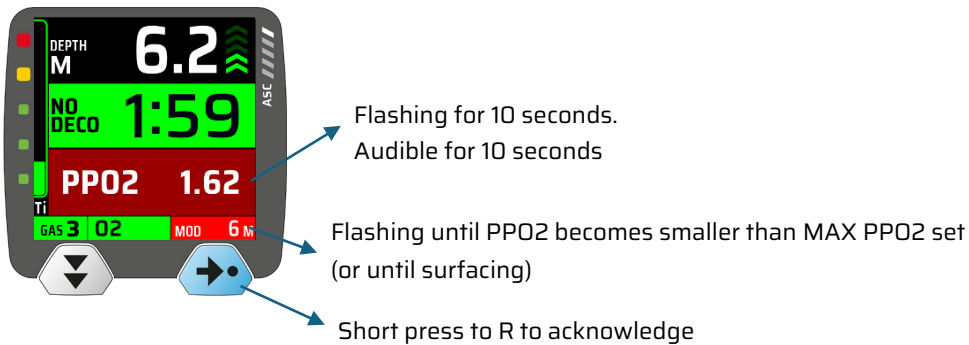
4.3.5.1. PPO2 Alarm

The PPO2 is the abbreviation for partial pressure of oxygen. It is calculated according to the ambient pressure and oxygen percentage of the gas you are breathing. As described in setting the breathing gases, you can set different MAX PPO2 for different gases. During dives, do not allow the PPO2 to exceed 1.60 ATA. It is recommended that you set the MAX PPO2 lower than 1.60.

The maximum operating depth (MOD) is the depth where the PPO2 reaches the MAX PPO2 set. Going deeper than the MOD will cause the PPO2 to be greater than the MAX PPO2 set. In that case the DaVinci will warn you with PPO2 Alarm.

“PPO2” (current PPO2 value) will flash on a dark red background during the audible alarm or until acknowledged (or the PPO2 is lower than the alarm set).

The MOD on Main will turn white and flash on a red background until the PPO2 becomes lower than the Max PPO2 set. Similar to other Alarms, the PPO2 alarm can be acknowledged by pressing the R button.



THE MOD SHOULD NOT BE EXCEEDED. Disregarding the PPO2 alarm can lead to oxygen poisoning (MOD is the abbreviation for “Maximum Operating Depth”, which is the maximum depth you can dive with the actual gas without exceeding the Max PPO2 set for that gas. For example, if you are breathing Enriched Air Nitrox with 32% Oxygen (EAN32) and Max PPO2 is set to 1.4, the MOD is 111 feet/33 m.

4.3.6. Adjustment of the Conservatism Level of the Algorithm

As mentioned in Section 2, dive computers do not assure prevention from decompression sickness. Dive computers perform theoretical calculations using depth and time parameters. There exist factors other than depth and time that affect gas accumulation and bubble formation in tissues.

A higher conservatism level adjustment will provide an additional safety buffer by keeping you away from the decompression limit. Note that this will result in a shorter no deco time (maximum time remaining you can stay at your current depth and then ascend to surface without the need for decompression), or longer deco stop times compared to lower conservatism levels (more liberal options).

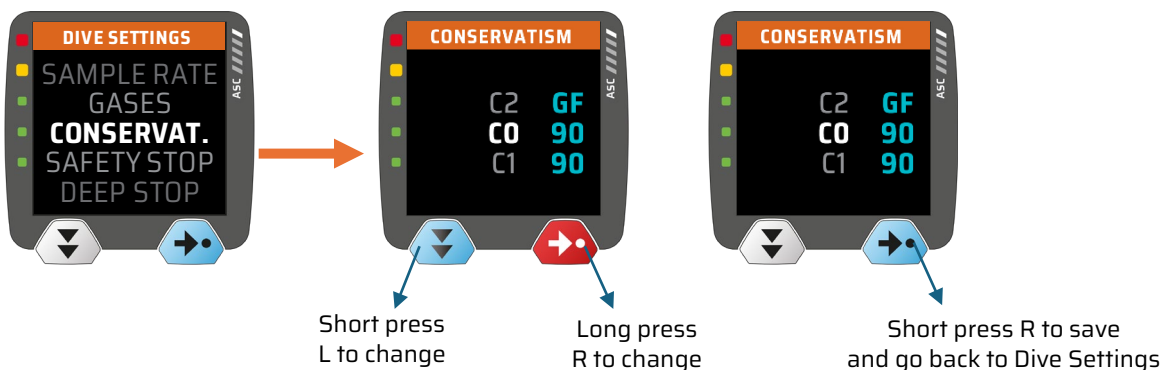
The DaVinci provides 3 conservatism levels adjusting the Gradient Factor parameters, you can select these according to your physical and environmental conditions. The conservatism level is set by selecting conservatism (CONSERVAT.) in DIVE SETTINGS menu. The options are:

C0 : (GF Low: 90, GF High 90) is the most liberal level for excellent physical and environmental conditions, and experienced divers.

C1 : (GF Low: 35, GF High 85) is the medium level for average conditions.

C2 : (GF Low: 35, GF High 70) is the most conservative level that is to be selected in existence of risk factors

The GF values corresponding to the conservatism level set will be displayed at right.



Some of the risk factors you should consider for adjusting your conservatism level are listed below:

- Poor physical fitness
- Cold water (water temperature less than 20 °C (68 °F))
- Age, particularly over the age of 50
- Fatigue (from over exercising, lack of sleep, exhausting travel)
- Dehydration (may slow down off gassing)
- Exercise before or after dive (especially after dive)
- Stress or sickness
- Weight (higher risk of decompression for overweight divers)
- Patent foramen ovale (PFO)
- Overexertion during diving (may increase gas accumulation in tissue by accelerating blood circulation)



SET THE CORRECT CONSERVATISM! The diver should use this option to make the calculations more conservative whenever it is believed that factors which tend to increase the possibility of decompression sickness (DCS) exist. Failure to properly select the correct conservatism level may greatly increase the risk of DCS.

4.3.7. Setting the Safety Stop

If you set the safety stop to ON, upon ascending to within 3 FT (0.9 M) deeper than the Safety Stop Depth set for 1 second on any No Deco dive in which Depth exceeded 30 FT (9 M) for 1 second, 1 short beep will be emitted and a Safety Stop at the Depth set will appear on the Main display with a countdown beginning at the Safety Stop Time set and counting down.



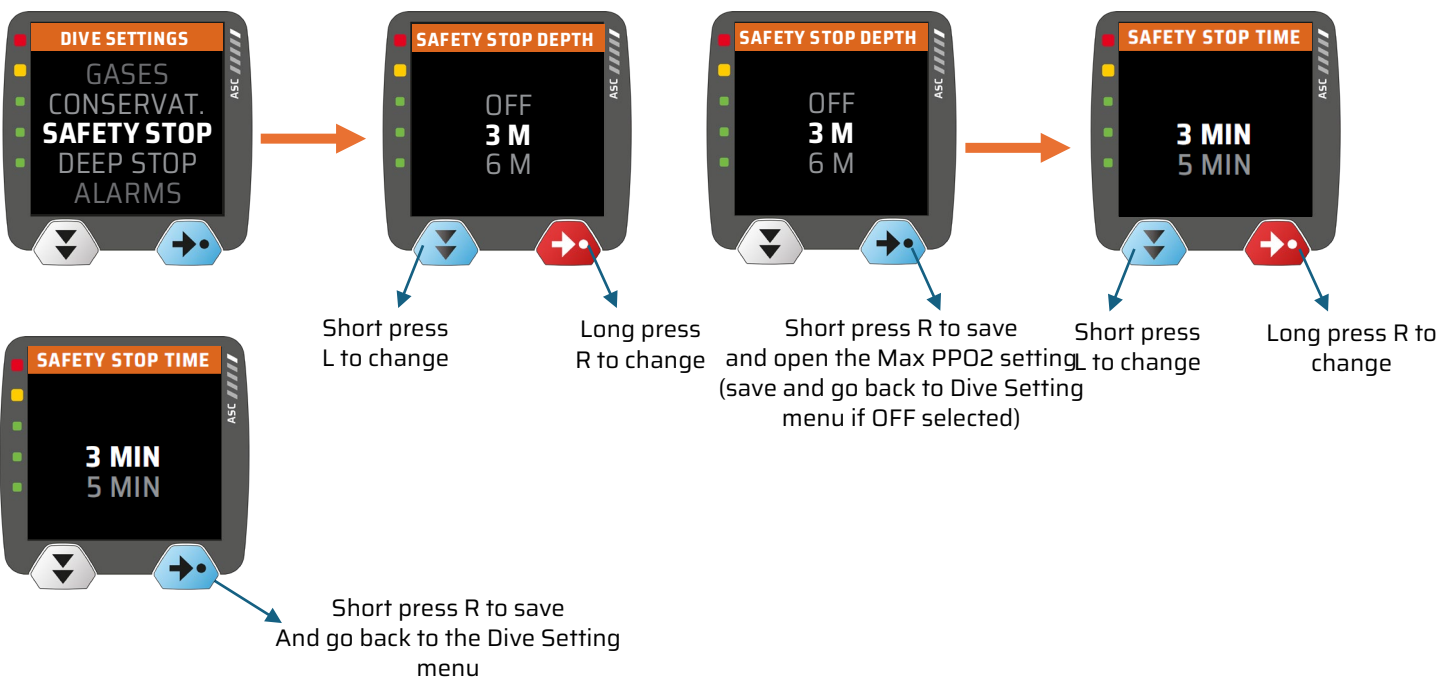
If the Safety Stop was set to OFF the display will not appear.

In the event that you descend greater than 10 FT (3 M) deeper than the Stop Depth for 10 seconds during the countdown, or the countdown reaches 0 min, the No Deco Main screen will replace the Safety Stop Main screen and it will be re-triggered if you descend again deeper than 30 ft (9 m) for 1 second and the Safety Stop Main screen is to re-appear upon ascent to within 3 FT (0.9 M) deeper than the Safety Stop Depth set for 1 second.

In case of a decompression requirement during a dive, after you complete the deco obligation, and then descend below 30 FT (9 M) again; the Safety Stop Main screen will appear upon ascent to within 3 FT (0.9 M) deeper than the Safety Stop Depth set for 1 second.

If you ascend shallower than safety stop depth before the countdown reaches to 0:00, the safety stop will continue to be displayed until the countdown reaches to 0:00. But if you surface (3 ft (0.9 m) for 1 second), the safety stop will be removed. In this case, if you dive again in 10 minutes (continuation of the dive), safety stop will not re-appear, unless you go deeper than 30 ft (9 m). There is no penalty if you surface prior to completing the Safety Stop or ignore it.

You can set the safety stop to OFF, or safety stop depth to 10 ft (3 m) or 20 ft (6 m) and time to 3 minutes or 5 minutes by selecting SAFETY STOP from DIVE SETTINGS menu.



If you set the deep stop to ON and the safety stop was set to OFF, the safety stop is automatically set to 6 m - 3 min (no change in user setting if it was ON).



PERFORM SAFETY STOPS! Even if not mandatory, performing safety stops provide extra time for excess nitrogen to off gas during the dive.

During safety stops, the Altitude will be replaced by the No Deco time displayed in green (or yellow in no deco alarm condition) in the computer dive ALT screen.



4.3.8. Setting the Deep Stop

When you set the deep stop (DS) to ON, the deep stop will trigger when you descend to 80 ft (24 m) for 1 second and calculate (and continually update in the background) a Stop Depth equal to 1/2 the maximum depth.

Upon initial ascent to within 10 ft (3 m) deeper than the calculated Deep Stop Depth for 1 second, a deep stop screen will appear with a 2-minute countdown timer beginning at 2:00 (min:sec).



If you descend 10 ft (3 m) below or ascend 10 ft (3 m) above the calculated stop depth for 10 seconds during the countdown, the deep stop will disappear and will be disabled for the remainder of that dive. There is to be no penalty if you ignore the deep stop.

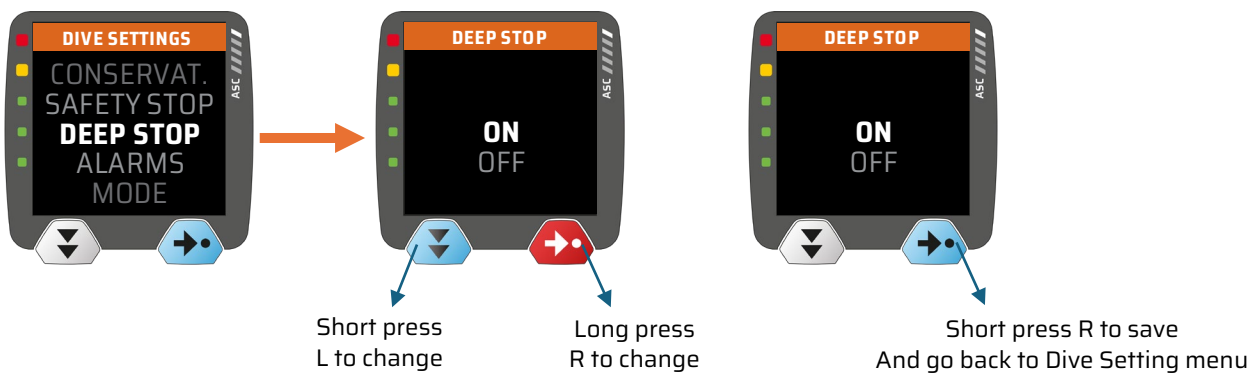
During the 2-minute countdown while at the deep stop, you have access to deep stop alternative displays (ALT) which are to revert to the deep stop main display after 10 seconds.

In the event of a high Oxtox condition, the deep stop is to be disabled for the remainder of that dive. The deep stop will be disabled during a High PPO2 Alarm condition.

To set the deep stop, select deep stop from the DIVE SETTINGS menu. Set deep stop to ON or OFF.



If you set the deep stop to ON and the safety stop was set to OFF, the safety stop is automatically set to 6 m - 3 min (no change in user setting if it was ON).



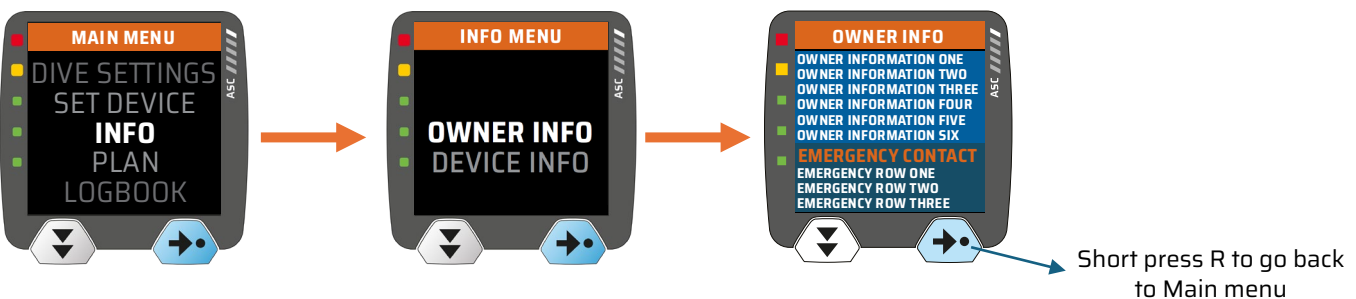
4.3.9. Owner Info

Enter Info menu from the Main menu and you will see 2 menu items: Device Info and Owner Info. The owner info contains personal information that you can enter using the DiveSync App. If you have not uploaded any information yet you will see the message below:



DaVinci allows you to fill 6 lines in which you can write anything for your info using the DiveSync App. There are additional 3 lines for your emergency contact.

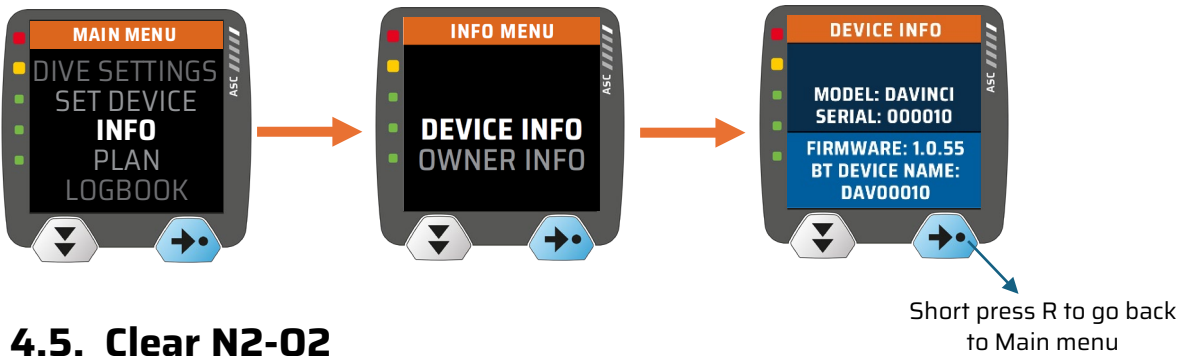
To see your info, enter the INFO Menu from the Main Menu and enter OWNER INFO:



4.4. Device Info

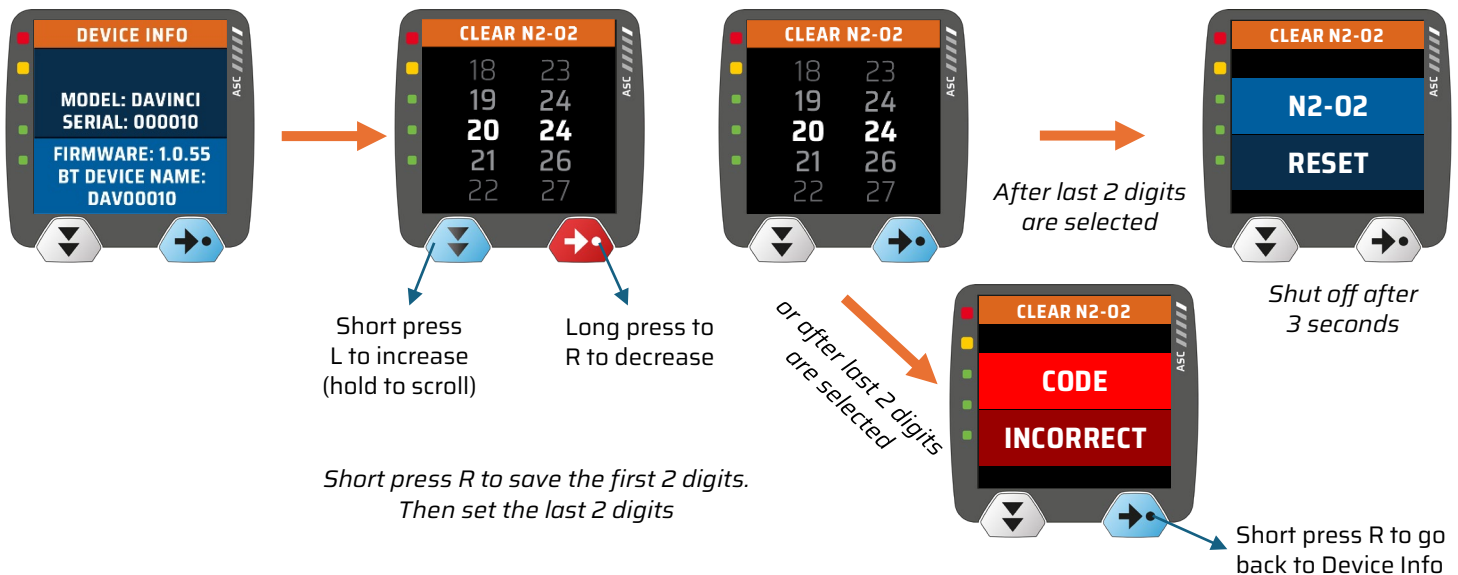
The Device Info screen can be reached by selecting DEVICE at the main menu. Here you can view the model name, serial number, and firmware version of your DaVinci. In the INFO menu, you can view

your personal information uploaded by the DiveSync App and the device information for your DaVinci.



4.5. Clear N2-O2

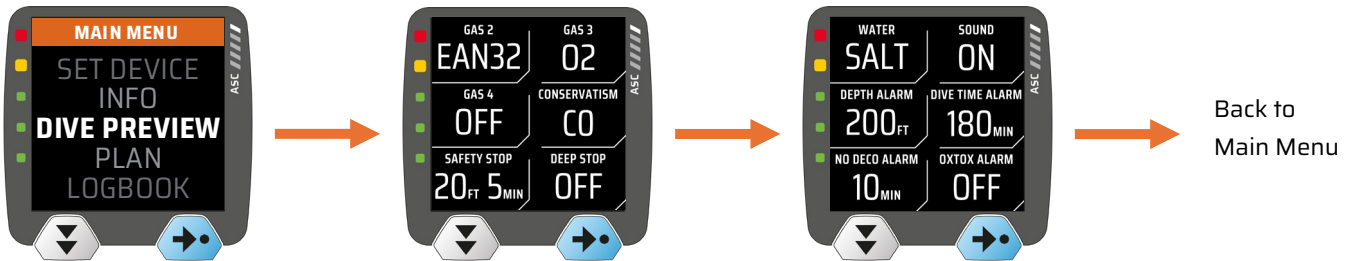
The DaVinci enables you to reset all nitrogen loading and oxygen toxicity related calculations using the Clear N2-O2 feature. To clear N2-O2, press the L button while the device info is being displayed (see 4.4). You will be asked to enter a 4-digit code. Set the first 2 digits from 00 to 99 and set the last 2 digits after the first two digits are saved with the R button. The code for resetting deco is 20-24. After saving, the message N2-O2 RESET will be displayed for 3 seconds, then the DaVinci will shut off.



DO NOT CLEAR N2-O2 AFTER A DIVE IF YOU WILL DIVE AGAIN IN 24 HOURS! Residual inert gas in tissues and exposure to oxygen in previous dives are to be taken into account for repetitive dives.

5. DIVE PREVIEW

If you want to check the settings before a dive, the DaVinci allows you to preview your dive settings without the need for entering into the menus. Select DIVE PREVIEW from Main. In Computer Mode, in the first page of the Dive Preview, you can see the settings for GAS 2, GAS 3, GAS 4, Conservatism, Safety Stop and Deep Stop. Press the R button again to open the second page on which the Water Type, Sound, Depth Alarm, Dive Time Alarm, No Deco Alarm and Oxtox Alarm settings are displayed.



In Gauge Mode, Water Type, Sound, Depth Alarm and Dive Time Alarm setting are displayed.

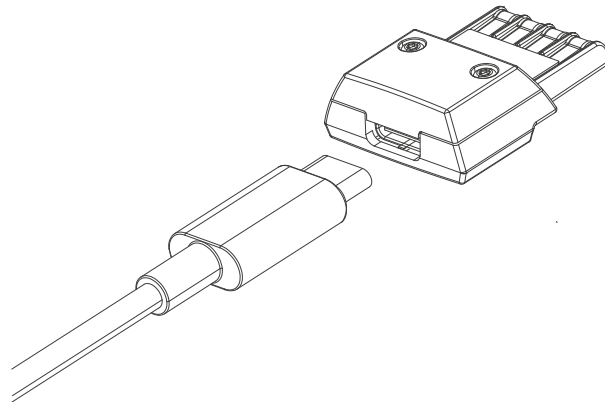


6. CHARGING THE DAVINCI



A 4-pin USB-C adapter is provided to charge the DaVinci. Connect any standard USB-C cable to the USB-C adapter to begin charging (see the picture below).

While the DaVinci is charging, a charge icon next to the power icon on Surface Main Display will be displayed.



You can charge the DaVinci while it is in Energy Saving Mode (ESM) as well. In this case the DaVinci will be charged faster as the screen will be off.

7. DIVING WITH DAVINCI

7.1. Before you dive

Make sure you read and understand the previous sections and correctly set the DaVinci for the type of diving you will make. Always perform pre-dive checks before diving.



NEGLECTING THE FOLLOWING POINTS COULD RESULT IN SERIOUS INJURY.

- Activate the DaVinci if it is off by pressing any button.
- Setting the DaVinci to the correct mode (Computer or Gauge Mode)
- Make sure that you set the gases correctly.
- Check the Maximum Operating Depth (MOD) for the gases set and do not exceed these limits.
- Adjust a higher level of conservatism according to your physical condition and environmental factors.
- Set units correctly.
- Check water type. Make sure that the sea/freshwater setting is correct.
- Check the altitude level as explained in Section 7.10.
- Use PLAN (Section 7.2) to check your No Deco or O2 Time Limit for the depth you are planning to dive.
- Do NOT plan or perform dives with decompression requirements. This would increase the accident risk dramatically.
- Perform a safety stop on every dive.

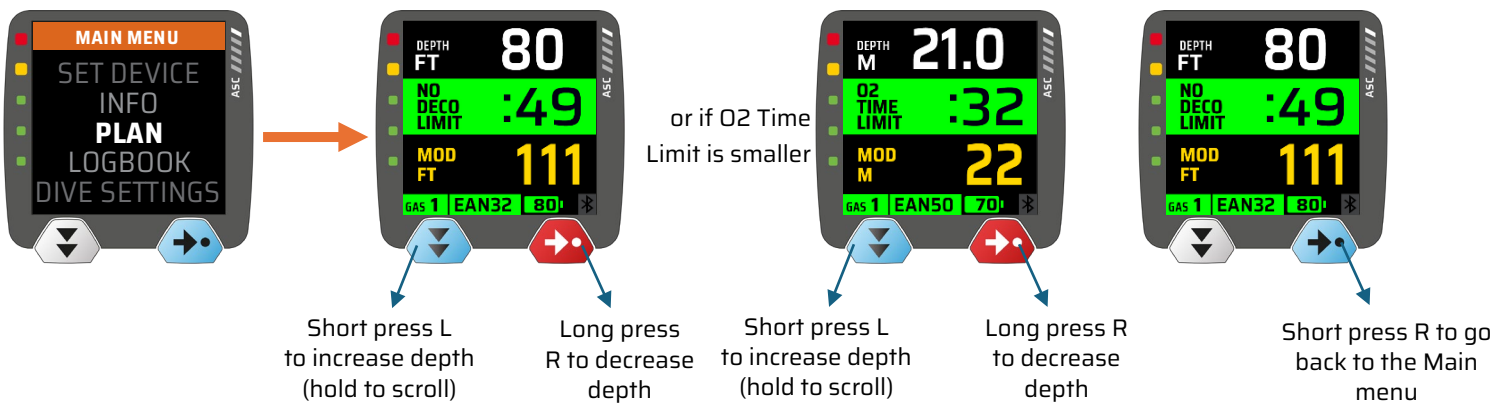
7.2. Planning

It is highly recommended to check your No Deco (or O2 Time) limits according to the depth you are planning to dive. To do this, enter PLAN from main menu and depths list with their No Deco Limits or O2 Time Limits, the one which is smaller for the related depth.

Depth is displayed at the top with No Deco Limit or O2 Time Limit for that depth displayed at the middle. The gas and the maximum depth for that gas (MOD - like max depth for the gas set in set gas menu) are displayed at the dot matrix area.

You can check No Deco Limits or O2 Time Limits from 9 m (30 ft) to the depth where No Deco Limit or O2 Time Limit becomes smaller than 1 minute. You can increase the depth using the L button (hold to scroll) and back to 9 m (30 ft again) after the last depth. You can decrease the depth by long pressing the R button. Exit from PLAN to MAIN MENU by pressing the R button.

Enter PLAN from the main menu.



7.3. Activation

Upon activation the DaVinci will check the pressure to set the depth to 0 m (0 ft). If there is any inconsistency in pressure readings, you will see the error message below, then the unit will shut off after 5 seconds.



This error may be caused by descending without activating the DaVinci and descending too quickly. This will create a large variance between the pressure readings to calibrate depth.

The DaVinci cannot be activated when at a depth deeper than 15 ft (4.5 m). In that case, you will see a flashing error message below, then the unit will shut off after 5 seconds.



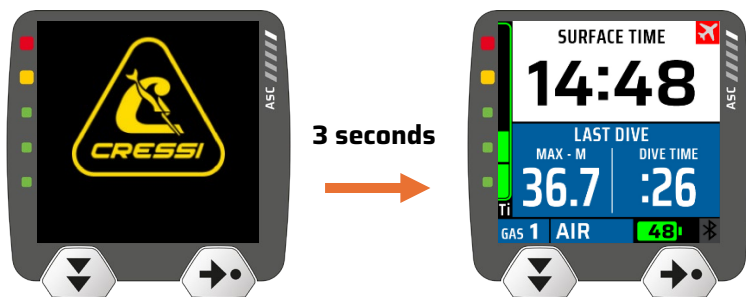
If you activate the DaVinci at an altitude higher than 3300 m (11.000 ft), you will see the error message below and the unit will shut off after 5 seconds.



If there is any error preventing the transducer to work properly, you will see the error message below and the unit will shut off after 5 seconds.



When activated, a Cressi welcome screen will be displayed for 3 seconds, then the surface main display of the mode last set (Computer Mode or Gauge Mode. Computer Mode if activated for the first time).



After a dive in Gauge Mode, you cannot change the mode to Computer for 24 hours.


After activation, if no button pressed or no dive for 10 minutes, the DaVinci will enter to Energy Saving Mode (ESM). Entering ESM, the screen will be off and the BT will be off after another 10 minutes if it was on. If no dive in 24 hours, the DaVinci will shut off. After a dive, during the first 10 minutes the dive mode continues except the depth is replaced by surface time (and no deco time displayed as dashes (-:--)).




If you re-dive within 10 minutes, this will be considered as a continuation of the dive. The dive time will continue with the time passed at surface added.

After 10 minutes at surface, the Surface Main screen will replace the Dive Main screen. After another 10 minutes without any button press or dive, the DaVinci will enter into ESM.

Any button press will cause the 10 minute countdown to re-start.





After a dive, if the unit senses a higher level than the altitude of the dive before the Fly counter reaches to 0:00, the message “FAD (Flying after diving) DETECTED” with NO FLY time at top will flash for 5 sec at a rate of 1/sec then the unit will shut off. Please note that FAD is also triggered when divers are exposed to altitudes more than 600 m (2000 Feet) within the 24-hour period following a dive.

7.4. Bar graphs

The DaVinci has two bar graphs:

- The ascent rate bar (ASC) consists of 5 segments representing ascent rate displayed during dive on Main. 4 segments represent warning condition, and 5 segments represent alarm condition.
- The tissue bar (Ti) consists of 5 segments representing nitrogen loading.

7.4.1. Ascent Speed Bar Graph (ASC)

The purpose of the ascent rate (ASC) Bar Graph is to assist the diver during an ascent by providing a visual indication of ascent rate.

The segments of the ASC Bar are displayed according to the table below:

Segments	18 m (60 ft) and shallower:	Deeper than 18 m (60 ft):
5	9.1+ m/min (30+ ft/min)	18.1+ m/min (60+ ft/min)
4	7.6 - 9 m/min (26 - 30 ft/min)	15.1 - 18 m/min (51 - 60 ft/min)
3	6.1 - 7.5 m/min (21 - 25 ft/min)	12.1 - 15 m/min (41 - 50 ft/min)
2	4.6 - 6 m/min (16 - 20 ft/min)	9.1 - 12 m/min (31 - 40 ft/min)
1	3.1 - 4.5 m/min (11 - 15 ft/min)	6.1 - 9 m/min (21 - 30 ft/min)



In warning level, the ASC Bar segments will turn yellow and will flash with 3 short beeps. The 4 segments will continue flashing until the ascent rate decreases to non-warning levels.



In alarm level, the ASC bar (all segments) will flash with the audible alarm and LED for 10 seconds. SLOW! Will flash with the ASC Bar until ascent rate decreases to non-alarm levels.



DO NOT ASCEND FASTER THAN THE WARNING AND ALARM LEVELS. Slow down your ascent as you are warned by the DaVinci. Fast ascents increase the risk of decompression illness and injuries related to rapid pressure alterations.

7.4.2. Tissue Bar Graph (Ti)

The Tissue Bar is displayed only in Computer Mode. As there are no decompression related calculations, there is no Tissue Bar in Gauge Mode.

The Tissue Bar consists of 5 segments. Up to four segments represent no deco status. The number of segments show how close you are to the decompression limit.



Five segments indicate that you have deco stop(s) to complete before surfacing. When a decompression requirement occurs during dive, the Ti Bar (all segments) flash with the deco stop depth and deco time replacing the No Deco time for 10 seconds or until acknowledged by pressing the R button. The message “DECO ENTRY” will also flash for 10 seconds with the audible alarm.



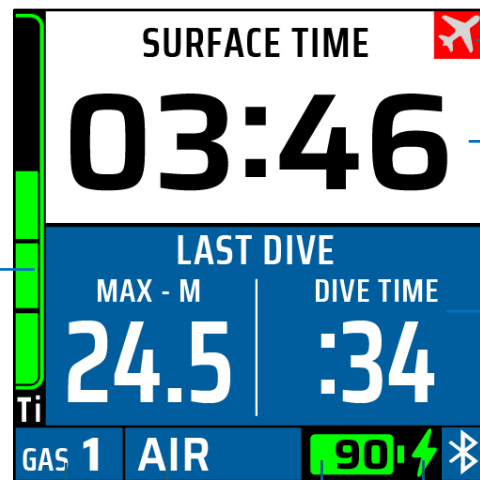
DO NOT PLAN OR PERFORM DIVES WITH DECOMPRESSION REQUIREMENTS. This would increase the accident risk dramatically. If you enter to deco, begin ascent immediately and clear all deco stops before surfacing.

7.5. Computer Mode

Computer Mode is the default dive mode for the DaVinci. As mentioned in Section 4.3.2, in this mode, the DaVinci performs decompression and oxygen toxicity related calculations and provides the no deco limit, decompression stops, PPO2, Oxtox, safety stop and deep stop information.

7.5.1. Computer Mode Main Display at Surface

Tissue loading bar graph (Ti) as an indication of inert gas loading.



Actual gas number Actual gas Power percentage Charge icon

“No fly” icon displayed for 24 hours after a dive.

Surface time since last dive (dashes (-:-) if surface time > 24 hours)

Last dive information (dashes (-:-) if surface time is greater than 24 hr)

Bluetooth® icon if BT is ON.

 (Green if the DaVinci is connected)

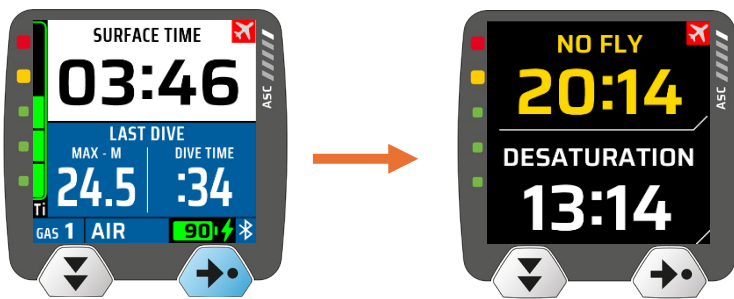
 (Dark grey if Bluetooth® is OFF)



If more than 24 hours have passed since the last dive, the surface time will be displayed as dashes. The last dive information will be displayed as dashes as well.

7.5.2. Computer Mode Alternative Surface Information Displays

While the surface Main is being displayed, you can check the NO FLY and DESAT time, opening the Surface ALT 1 by pressing the R button.



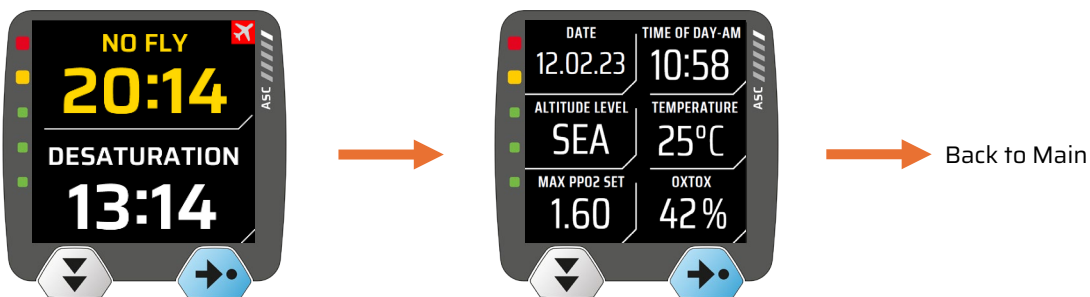
After No Fly and/or Desat counter reaches to zero, they will be displayed as dashes.



DO NOT FLY AFTER A DIVE UNTIL THE NO FLY COUNTER REACHES TO ZERO (-:--).

Reducing ambient pressure after surfacing from a dive increases the risk of decompression sickness dramatically.

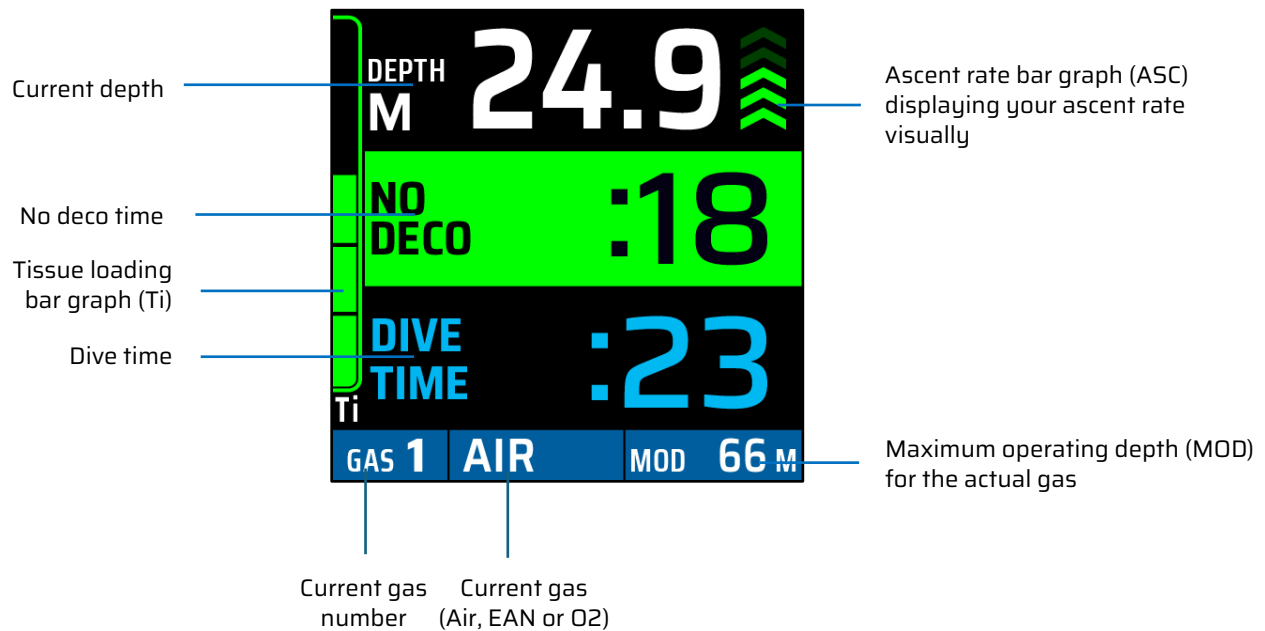
While ALT 1 is being displayed, R button opens ALT 2 (or press R button two times while the Main screen is being displayed) where date, time of day, altitude level, temperature, max PPO2 set (for actual gas) and current Oxtox percentage are displayed.



ALWAYS CHECK THE ALTITUDE BEFORE DIVING. See Section 7.10.

7.5.3. Diving in Computer Mode

The DaVinci will begin to display Dive Main screen when submerged to 1.5 m (5 ft) for 5 seconds. The information displayed on the dive main screen:



If the O2 Time (time before Oxtox reaches to 100%) is smaller than the No Deco Time, the O2 Time will be displayed at the place of the No Deco Time.

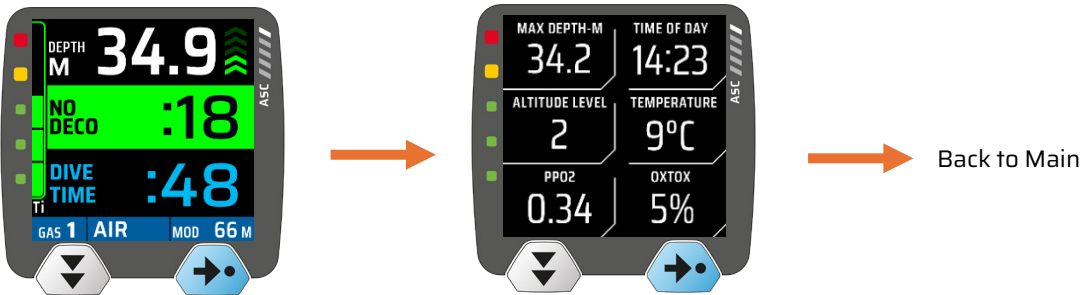


BEGIN ASCENT BEFORE NO DECO OR O2 TIME REACHES TO ZERO (0:00).

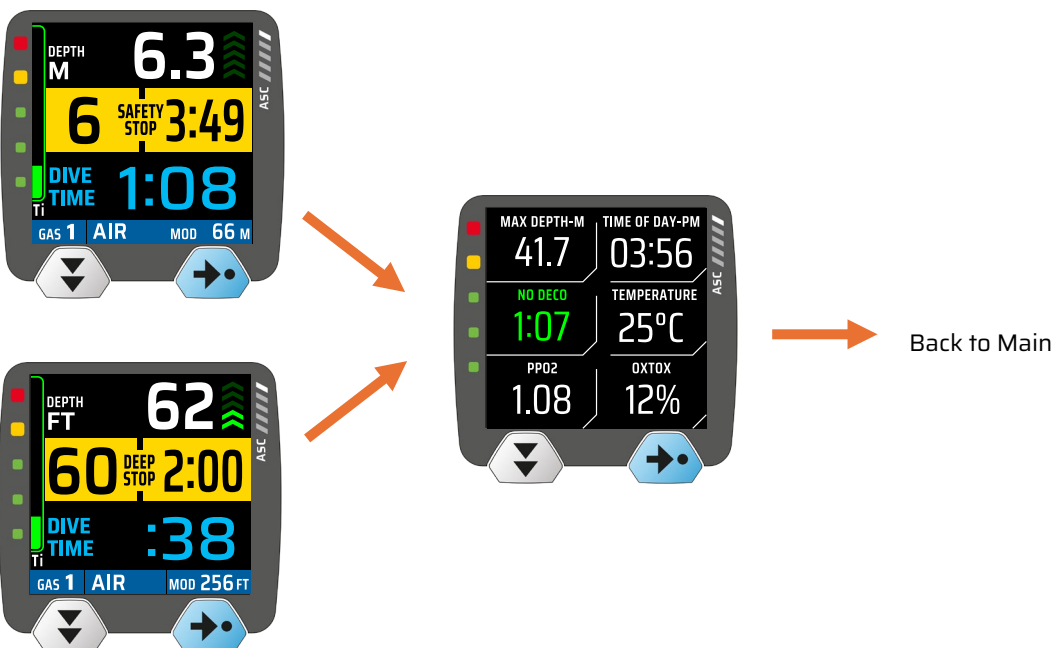
Decompression dives and exposure to high levels of Oxtox greatly increase the risk of DCS and oxygen toxicity.

7.5.4. Computer Mode Alternative Dive Information

While the dive Main screen is being displayed, by pressing the R button, open ALT where you can check the maximum depth reached so far during the dive, time of day, the current temperature, the altitude level, current PPO2 and Oxtox. By pressing the R button again, you will be taken back to dive Main. During dive, ALT will revert to Main after 10 seconds.



While the safety stop or deep stop is displayed on Main, as they replace the No Deco, the No Deco (or O2 Time) will be displayed on ALT instead of the altitude. The No Deco or O2 Time will be green, or yellow if the No Deco time is smaller than the No Deco Alarm time set.



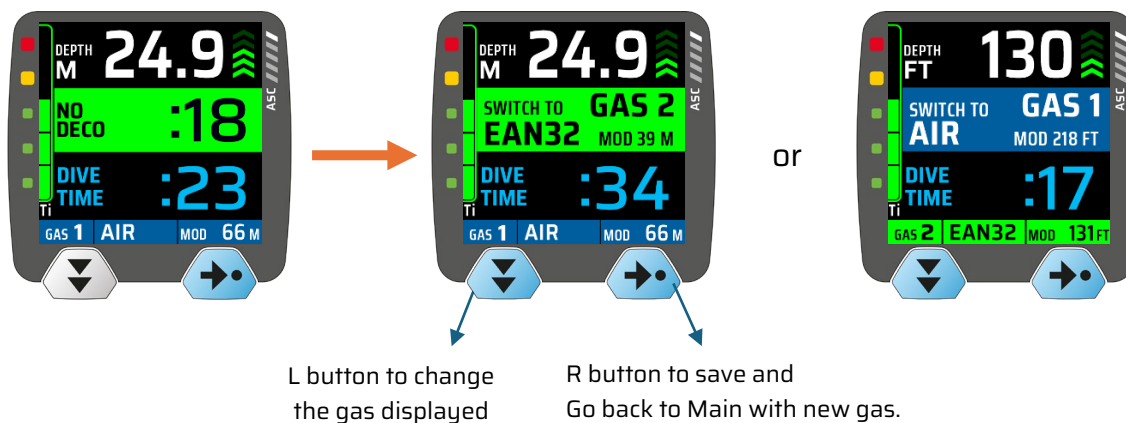
7.5.5. Gas Switching

As mentioned in Section 4.3.5, the DaVinci allows you to dive with up to 4 gases. Pressing the L button while dive Main is being displayed will show the Gas Switch screen. There will be no gas switch if GAS 2 (and therefore GAS 3 and GAS 4) is set to OFF.

While the Gas Switch screen is being displayed, change the gas to be switched using the L button then save with the R button. The DaVinci will go back to Main with the new gas.

If the gas displayed for gas switch is AIR, it will be displayed on a blue background. If the gas is EAN or O2, it will be displayed on a green background.

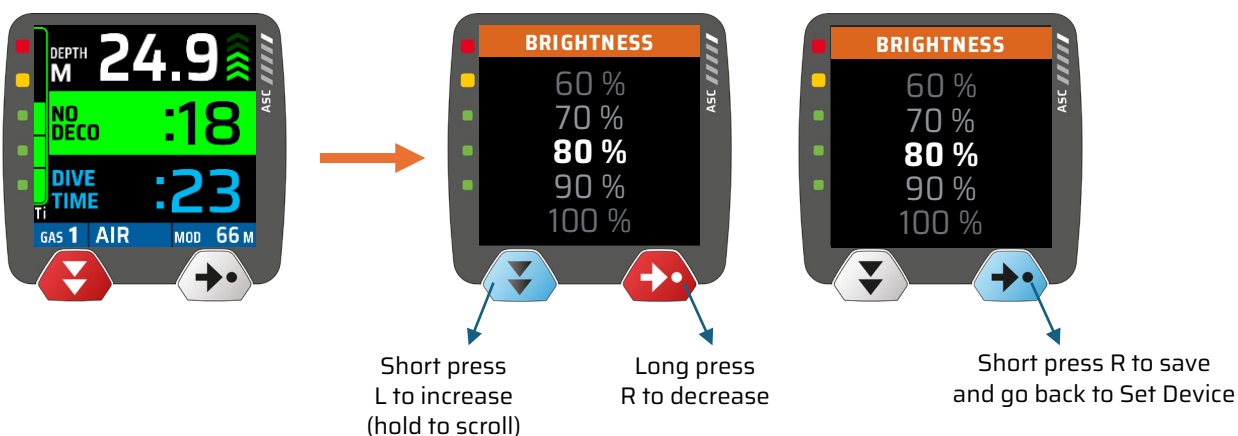
At the gas switch screen, the Gas No, Name and MOD for the selected gas are displayed on a blue background for AIR and green background for EAN and O2.



Press the R button for 2 seconds to go back to Main without gas switch.

7.5.6. Setting Brightness During Diving

Long press the L button during a dive in any mode to open the set brightness screen. Once the set brightness screen is displayed, you can set the brightness to the level desired.



7.5.7. The First 10 Minutes After Surfacing

When you ascend shallower than 0.9 m (3ft) for 1 second, the current depth at the top will be replaced by Surface Time, Dive Time will stop, and No Deco will be displayed as dashes (-:-) for 10 minutes.



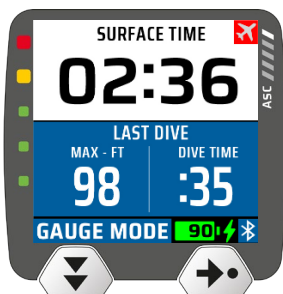
During these 10 minutes, the DaVinci is still in dive mode. The Dive ALT will be displayed with R button and Gas Switch screen will be opened with the L button. If you dive again in 10 minutes, this will be the continuation of the dive and the dive time will start again with the time passed at surface added. After 10 minutes at the surface, if there is no repeat dive, the DaVinci will enter surface mode and a dive will be logged.

7.6. Gauge Mode

If you want to use the DaVinci as a depth gauge and timer, you can select Gauge Mode. In this mode, the depth, a diver-controlled timer (chrono) and the dive time will be displayed during dives. No decompression and oxygen toxicity related information will be displayed.

7.6.1. Gauge Mode Main Display at Surface

Similar to Computer Mode, the surface Main in Gauge Mode displays surface time, the last dive's depth and dive time. "GAUGE MODE" is displayed instead of the gas number and gas name.



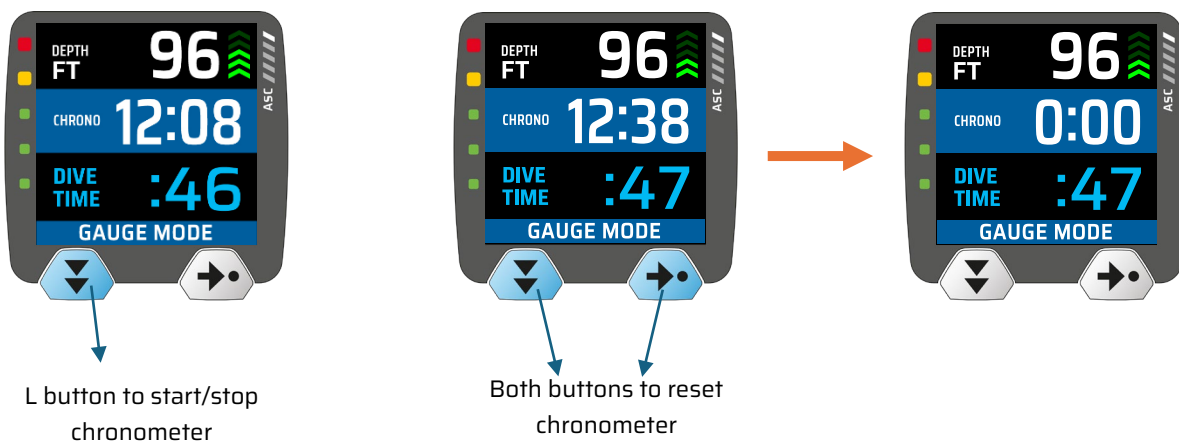
7.6.2. Gauge Mode Alternative Surface Information

Only No Fly time is displayed in ALT 1 and there is no Max PPO2 Set and Oxtox in ALT2.



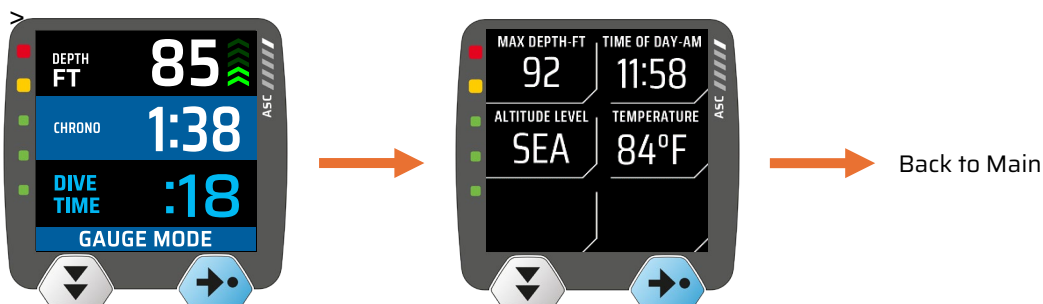
7.6.3. Diving in Gauge Mode

During a dive, a user-controlled chronometer is displayed on screen. Use the L button to start or stop Chrono. Short pressing the both left and right buttons will reset the chrono to 0:00.



7.6.4. Gauge Mode Alternative Dive Information

Pressing the R button will show dive ALT which is similar to Computer Mode dive ALT. The Gauge mode dive ALT is similar to Computer Dive Alt except there is no PPO2 and Oxtox:



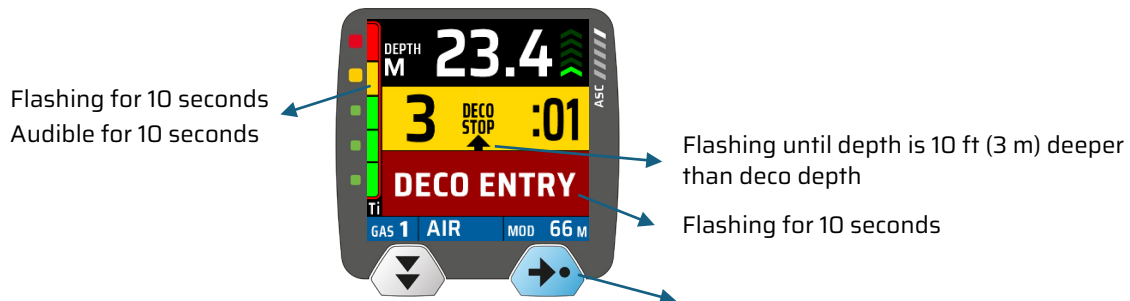
7.7. Deco Dive (Computer Mode)

When nitrogen absorption computations determine that the diver cannot safely surface without stopping at a predetermined depth to allow off gassing of absorbed nitrogen, the DaVinci displays the deepest deco stop depth and stop time instead of No Deco.



DO NOT PLAN OR PERFORM DIVES REQUIRING DECO STOPS. Deco dives dramatically increase the risk of decompression sickness, dive accidents and fatalities.

Stop depth and Time will be displayed on a yellow background in place of No Deco Time. The Ti bar segments will flash with an audible alarm and “DECO ENTRY” will flash on a red background at the place of Dive Time. An up arrow indicating that you need to ascend to deco stop depth shall flash until depth is 10 ft (3 m) deeper than deco depth. The alarm can be removed by pressing the R button to acknowledge or the alarm will time out in 10 seconds.



BEGIN ASCENDING TO THE DEPTH INDICATED FOR THE DECO STOP. Spending more time at depth will increase decompression requirements and increase the risk of decompression sickness, dive accidents, and fatalities.



When you ascend to the deco depth (from 10 ft (3 m) deeper than deco stop depth to the deco stop depth), two arrows (up and down) will be displayed indicated that you are in deco depth. Stay close to the deco stop depth (but never go shallower) until deco stop disappears (or next (shallower) deco stop is displayed).



After deco entry, the Time to Surface (TTS) will be added to ALT. The TTS is the time required for clearing all deco stops and ascend to surface.



DO NOT ASCEND SHALLOWER THAN THE DECO DEPTH DISPLAYED. Being shallower than the deco depth may cause dangerous bubble formations in tissues and very likely lead to decompression sickness.

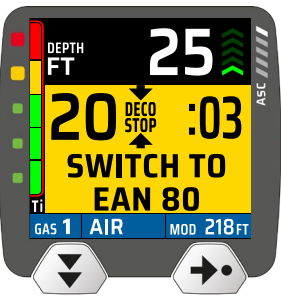
7.8. Gas Switch Warning

If the actual gas is not the best gas when arriving at the deco stop zone, the diver shall be warned about gas switching.



The best gas is the gas which is ON and with the PPO2 at the deco depth is the highest among the gases that are set to ON **BUT** not exceeding the MAX PPO2 SET for that gas.

If there is a better gas when at the deco depth, a “SWITCH TO” message (with the name of the better gas: AIR, EAN (with oxygen percentage), or O2) will flash on a yellow background in place of the dive time until acknowledged or will time out after 30 seconds.



You can omit the gas switch warning. The deco and oxygen toxicity calculations are always done with the actual gas.

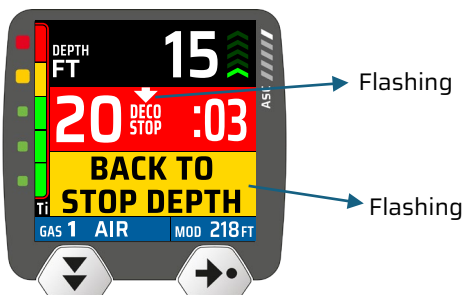
7.9. Violations

Violations arise from:

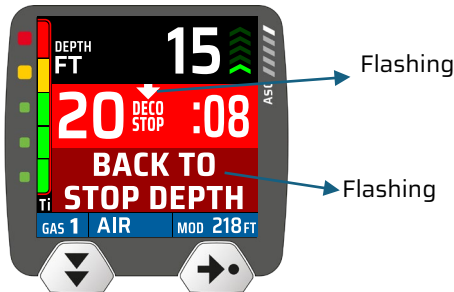
- Being shallower than deco depth (Computer Mode)
- Deco stops at 60 m (200 ft) or deeper (Computer Mode)
- Exceeding maximum depth of 100 m / 330 ft (Computer & Gauge Modes).
- Deco time greater than 99 minutes.
- Dive Time greater than 9 hours and 59 minutes.
- Shut off during dive.

7.9.1. Being Shallower than Deco Depth

If you ascend to a depth shallower than the deepest stop depth, the DaVinci will warn you to return to the stop depth. In this condition, the alarm will sound and the message “BACK TO STOP DEPTH” on yellow background flash at the place of the dive time. The background of the deco depth and time will turn red. A down arrow will flash until you descend to the deco depth.



In this condition, a 1.5-minute penalty time will be added to your deco time for every minute you are shallower than the deco depth. If you return to the deco depth in 5 minutes, you can complete your deco obligations and surface. If more than 5 minutes passes above the deco depth, the DaVinci will warn you again in similar way, except the message “BACK TO STOP DEPTH” will be on a dark red background.



In this case, you can (and you should!) still complete your deco obligations and surface. However, the DaVinci will enter Violation Mode at Surface (VMS) 5 minutes after surfacing.

Violation Mode at Surface (VMS)
smaller than 5 minutes



Violation Mode at Surface (VMS)



In VMS, the DaVinci will not enter into a dive for 24 hours. The decompression and oxygen toxicity related information will not be displayed.

The surface menu will function normally except you will not be able to enter to PLAN. Desaturation time will not be displayed in ALT 1, the Max PPO2 set and Oxtox will be displayed as yellow dashes as below.



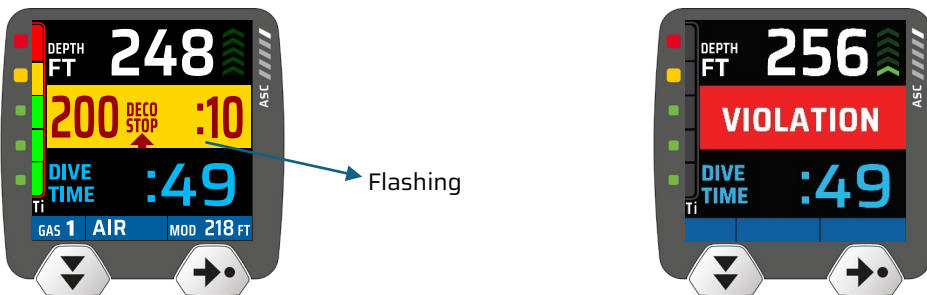
DO NOT DIVE OR FLY WHEN THE DAVINCI IS IN VIOLATION MODE!

7.9.2. Deco Stops at 200 FT (60 M) or Deeper

We highly recommend not to perform dives with decompression requirements. Additionally having to perform heavy deco stops increases the risks dramatically. If you have a deco obligation at 200 ft (60 m), you can complete deco obligations and surface. However, the DaVinci will enter Violation Mode at Surface (VMS) 5 minutes after surfacing.

In case of a deco obligation deeper than 200 ft (60 m), the DaVinci will enter Violation Mode Underwater (VMU). No more decompression and oxygen toxicity related information will be displayed.

Violation Mode Underwater (VMU)

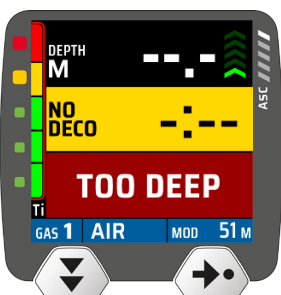


DO NOT PERFORM DIVES WITH DECO REQUIREMENTS AND EVEN WORSE, DEEP DECO OBLIGATIONS.

7.9.3. Exceeding Maximum Depth

The DaVinci is tested to be fully operational to 100 m (330 ft). Going deeper than the maximum depth may cause malfunctions and miscalculations. If you go deeper than the maximum depth, the audible alarm will sound. If depth and deco calculation are still accurate, they will be displayed normally. Otherwise, depth and No Deco will be displayed as dashes. The message TOO DEEP will be displayed flashing at the place of the dive time.

After surfacing from a dive during which the maximum depth was exceeded, the DaVinci will enter Violation Mode at Surface (VMS) for 24 hours. Do NOT dive or fly during these 24 hours.





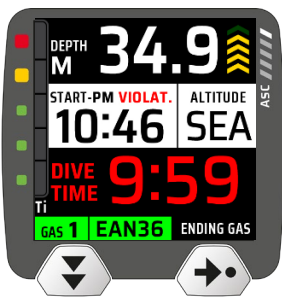
DO NOT PERFORM DEEP DIVES. Going deeper than 30-40 m (100 - 130 ft) dramatically increases the risk of injury and death.

7.9.4. Deco Time Greater than 99 Minutes

If any decompression stop time becomes greater than 99 minutes, the DaVinci enters VMU directly (see Section 7.9.2 for VMU display and information).

7.9.5. Dive Time Greater than 9 Hours and 59 Minutes

The DaVinci can manage and record dives with dive time up to 9 hours and 59 minutes. If dive time becomes greater than 9:59, the unit will shut off. In this case the 9 hours and 59 minutes of the dive will be recorded in Log and the message “-VIOLAT.” will be added next to dive start time in Logbook Page 1 (See Section 8.2.1).



DO NOT DIVE FOR 24 HOURS IF DIVE TIME EXCEEDED 9 HOURS 59 MINUTES. The Nitrogen and Oxtox loadings are not calculated for the portion of the dive in which dive time > 9:59 (hr:min).

7.9.6. Shut Off During Dive

If the DaVinci shuts off during a dive because of an internal error, and then activates again, the IERR Error screen will be displayed. After surfacing from such a dive, the DaVinci will enter Violation Mode at Surface (VMS) for 24 hours (see Section 7.9.1 for VMS displays and information).



7.10. Diving at Altitude

The DaVinci regularly checks barometric pressure for setting the altitude level automatically and calibrating the present depth to 0 m (ft). You can check the altitude level by viewing the ALT 2 screen at surface in Computer and Gauge Modes.



Between 0 and 915 m (0 and 3000 ft), altitude level will be set to SEA

Between 916 and 1525 m (3001 and 5000 ft) altitude level will be set to 1

Between 1526 and 2135 m (5001 and 7000 ft) altitude level will be set to 2

Between 2136 and 2745 m (7001 and 9000 ft) altitude level will be set to 3

Between 2746 and 3300 m (9001 and 11000 ft) altitude level will be set to 4

The DaVinci will not be activated at an altitude higher than 3300 m (11000 ft).



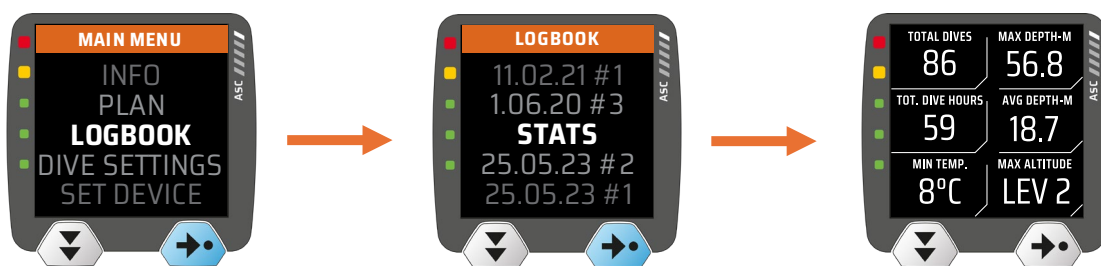
CHECK THE ALTITUDE LEVEL BEFORE EVERY DIVE. Make sure that your altitude and the altitude level set match. Diving with an incorrect altitude level may lead to erroneous decompression calculations and serious injuries.

8. DIVE RECORDS

8.1. Statistics

When you open the LOGBOOK from the main menu, the STATS will be highlighted among the dive records that are listed chronically with their dates and dive numbers.

The statistics consist of: total number of dives, total number of dive hours, maximum depth, average depth, minimum temperature and maximum altitude level of all recorded dives will be displayed.



If there are zero dives made on the DaVinci, you will see the message “NO DIVE MADE” when entering the Logbook.

8.2. DaVinci Logbook

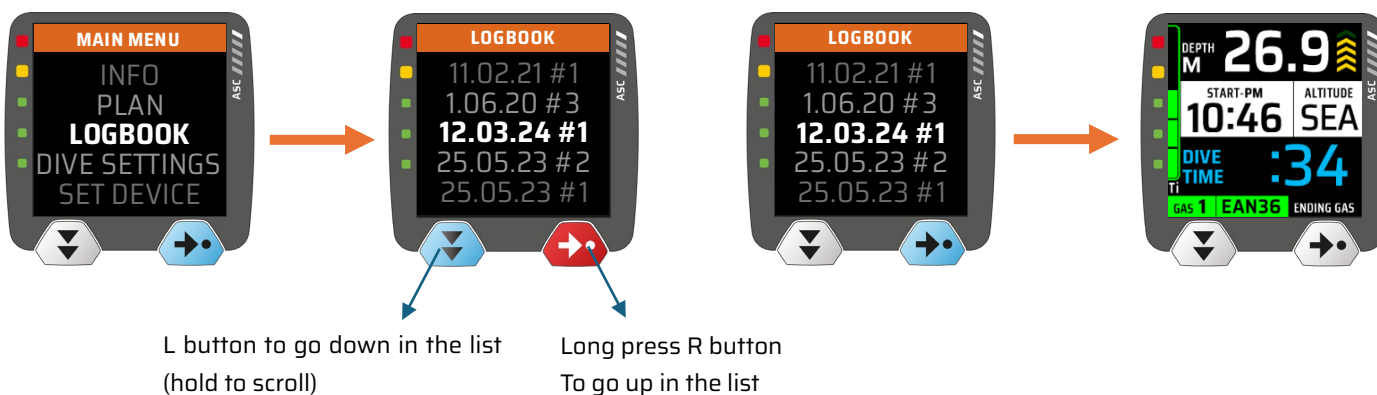
Dives are recorded to the Logbook 10 minutes after surfacing.

Logbook displays information from the latest 60 Computer and/or Gauge dives sequentially. After exceeding 60 dives, the most recent dive is to be recorded while deleting the oldest.

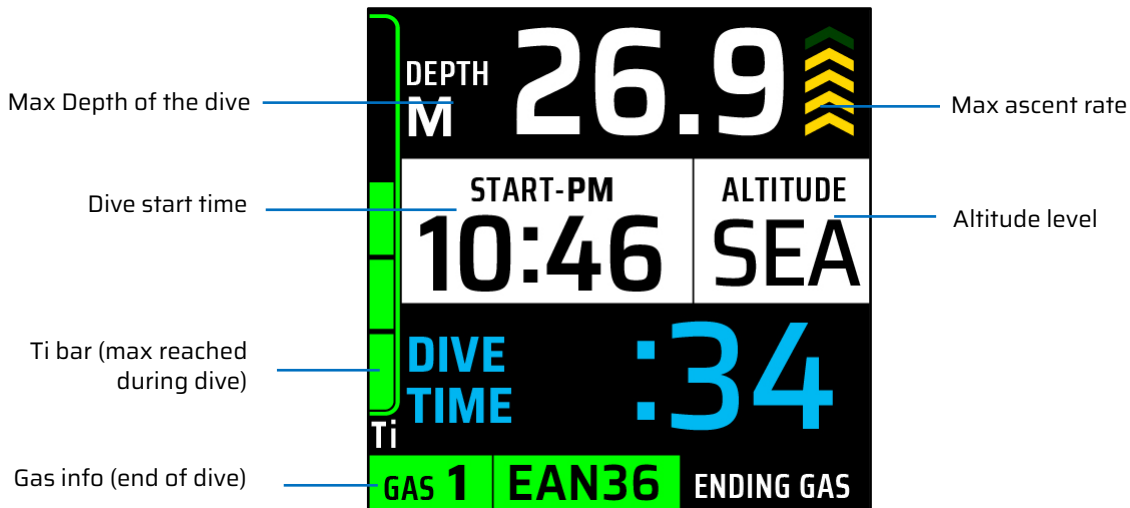
You can enter the Logbook from the main menu at surface. The first screen is the list of recorded dives. The dives are listed by their date and the dive number that are assigned daily, meaning the first dive made in a day has #1, second dive of that day has #2 and for the next day, the numbering begins from #1.

8.2.1. Logbook page 1

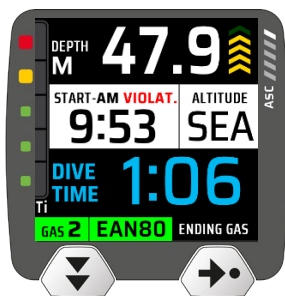
You will enter the Logbook Page 1 of a dive from the dive list screen.



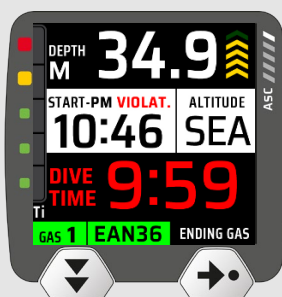
Information displayed on the Logbook Page 1 of the selected dive:



If any violation happened during dive, "VIOLAT." will be displayed next to the start time.



THE DAVINCI CAN RECORD DIVES WITH DIVE TIME UP TO 9 HR AND 99 MINUTES. If any dive exceeded this dive time, the remaining portion of the dive will not be recorded and the message "VIOLAT." will be displayed next to the start time as in picture below. Do NOT dive for 24 hours after a dive exceeding 9 hours and 99 minutes.

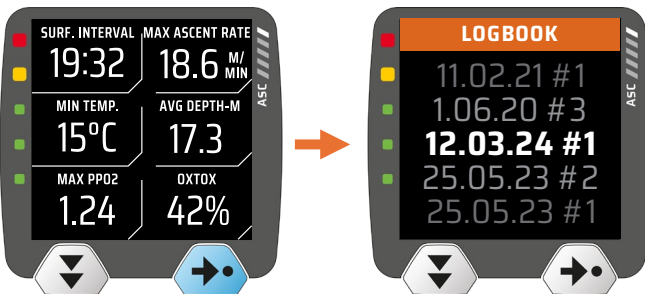


IF DAVINCI SHUTS OFF BECAUSE OF A LOW POWER CONDITION DURING A DIVE, THE REMAINING PORTION OF THE DIVE WILL NOT BE RECORDED and the message “ERROR” will be displayed next to the start time as in picture below.



8.2.2. Logbook page 2

Pressing the R button while Logbook Page 1 is displayed opens Logbook Page 2. In Logbook page 2, surface interval, numeric max. ascent rate, minimum temperature, average dept, max PPO2 reached and Oxtox at the end of the dive will be displayed.



Return to the List of Dives by pressing the R button while Logbook Page 2 is displayed will return to the list of dives.

8.3. Transferring Dive Records to Your Mobile Device



The DaVinci can be connected to your mobile device by downloading the free DiveSync app from the App Store (iOS) or Google Play (Android). With the Bluetooth® pairing to DiveSync enabled, settings can be uploaded to set/change gases, set alarms, and set the date/time. DiveSync also provides users the ability to download dive data to include depth, time, temperature, surface intervals, N2 bar graph and ascent bar graph, among many other details. Firmware updates of the DaVinci are done using the DiveSync as well.

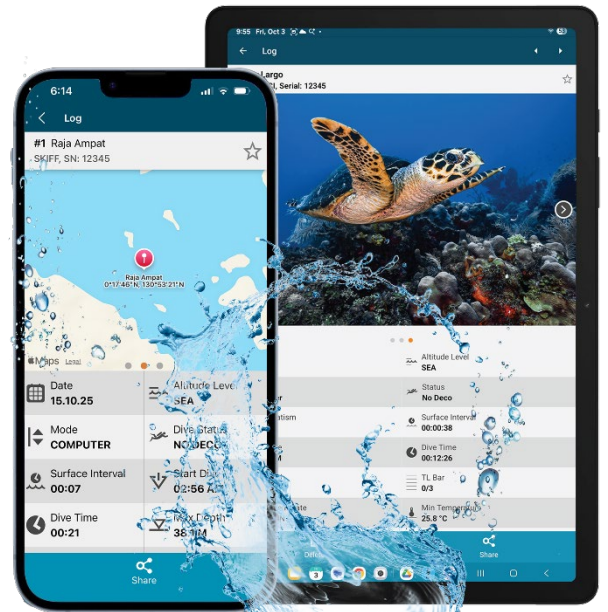
Please visit the DiveSync website at www.divesync.io or the App Store/Google Play Store to begin your free download and learn how to pair the DaVinci with your mobile device.

You can pair the DaVinci using the Bluetooth® feature. This requires a mobile device with Bluetooth® running the DiveSync app.

The Settings Upload portion of the program can be used to set/change the Gases, Alarms, Dive Settings, Device Settings, Owner Info using the same Interface System. The Mode settings must be entered using the DaVinci button controls.

Information available for retrieval (download) from the DaVinci includes items such as dive number, surface interval, time, depth, dive time, start dates/time, lowest temperature, sample rate, set points, Ti Bar Graph, and ASC Bar Graph.

Refer to the DiveSync App for further instruction on linking your DaVinci to your mobile device.

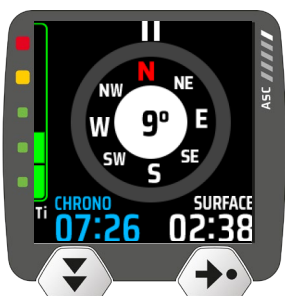


9. COMPASS MODE

Please refer to Section 4.2.8 for information about compass calibration and declination setting. Long press the R button when at the surface or dive main screen to open Compass Mode. If compass calibration is required you will see the warning below and will be directed to compass calibration with a button press.



If the compass does not need calibration, the Computer/Gauge, Surface Dive Compass Main screen will be displayed. At the Compass Main display, the display includes the surface time or depth and ASC bar during dive, chrono, digital compass direction at the middle and Ti bar if in Computer Mode.



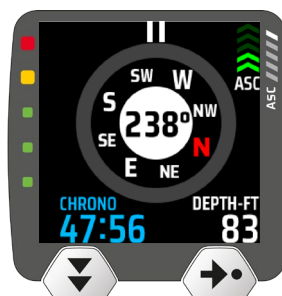
Computer Mode
Compass at Surface



Computer Mode
Compass during Dive



Gauge Mode
Compass at Surface



Gauge Mode
Compass during Dive

Similar to the Gauge Mode chronometer, you can start and stop the chrono by pressing the L button, and reset the chrono by pressing both buttons.

9.1. Setting a Reference Heading

The DaVinci's compass allows you to set a reference direction (heading) for navigating underwater. To set the reference, press the R button in Compass Mode. A reference point (heading marker) on the compass frame circle, the digital reference direction with the label "REF" at top left right will appear and directing arrows at left and right will appear on the screen.

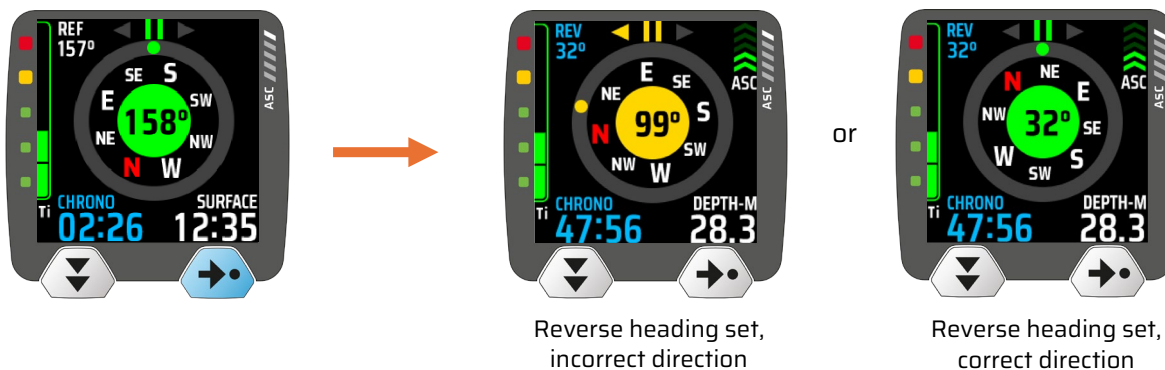
While within 10° of the Reference Heading, the Heading Value's background and heading marker will be displayed in green. If there is a 10° difference from the Reference Heading, the Heading Value (in degrees) and heading marker will be displayed in yellow.

If you are not navigating in the correct direction, the yellow directing arrow (left or right) will flash to direct you.



9.2. Setting a Reverse Heading

The DaVinci's compass allows you to turn back to your starting point with reference heading by setting a reverse heading. To set a reverse heading just press the R button again while a reference heading is set. The "REF" label at bottom right will change to "REV" in blue. The reverse heading direction will be to the opposite direction (turning 180°) of the reference heading.



9.3. Removing the Reference Heading

Pressing the R button another time while in reverse heading is displayed will remove the reference. You can simply remove the reference heading by pressing the R button 2 times.

9.4. Compass on Main

The DaVinci allows you to add the compass on main screens at surface or during a dive. A long press to both buttons (L+R 2 sec) will add the compass on main.

If you had set a reference (or reverse) heading, the heading marker will be displayed on the compass



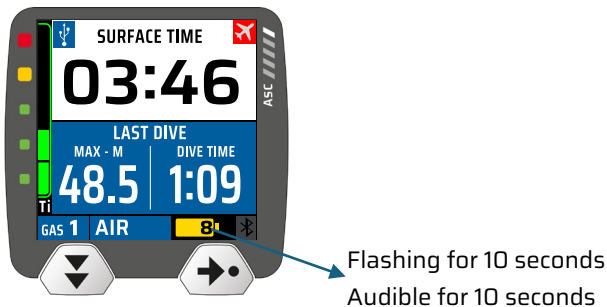
10. MAINTENANCE

10.1. Power Source

The DaVinci is powered by a 3.8 V, 2.39 Wh Lithium-ion power source that provides a minimum of 30 dive hours once fully charged.

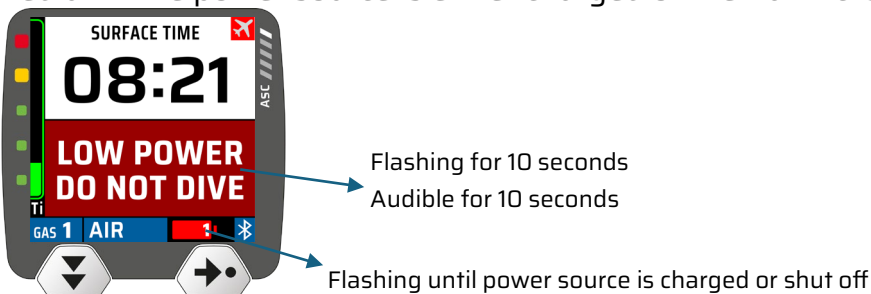
10.1.1. Low Power Warning

If the power percentage drops to less than 15%, the power icon (yellow) will flash until the alarm is acknowledged by a press of the R button or the alarm times out. Afterward the power icon will remain solid yellow. The low power warning shows only at the surface.

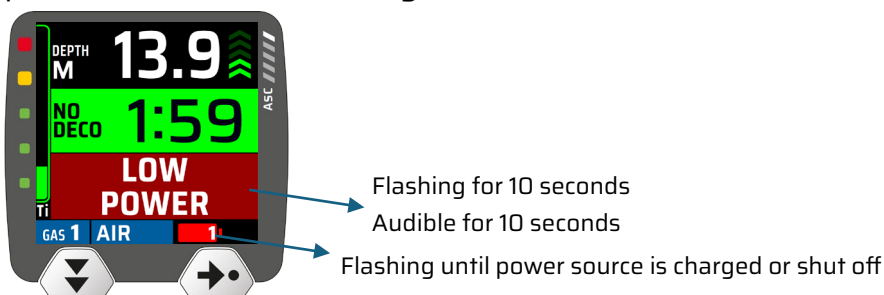


10.1.2. Low Power Alarm

At surface: When the power percentage drops to less than 2%, the message “LOW POWER DO NOT DIVE” will be displayed on dark a red background with an audible alarm showing the power icon in red until the power source is either charged or the DaVinci shuts down.

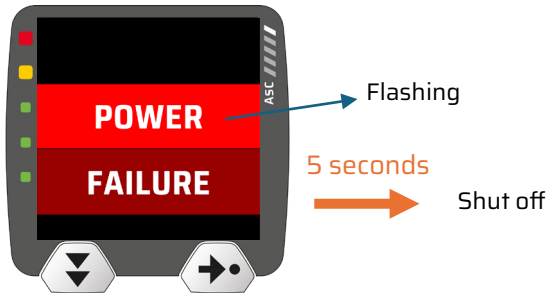


During dive: When the power percentage drops to less than 2%, the message “LOW POWER” will be displayed on dark a red background with an audible alarm showing the power icon in red until the power source is either charged or the DaVinci shuts down.



10.1.3. Power Too Low to Operate

If the power source voltage becomes too low, the DaVinci will be prevented from functioning normally and will shut off. In this case, upon entering Surface Mode, the message “POWER FAILURE” will flash for 5 seconds and shut off. The DaVinci will stay shutdown until the unit is charged even when the L or R button is pressed or the wet contacts are bridged. Please first charge the DaVinci to bring the power source back to a full charge. If the unit cannot be charged, take the DaVinci to an authorized Cressi service center for a power source replacement.



If the DaVinci shuts down because of low power during a dive, only the portion of the dive before the shutdown occurs will be recorded. After charging the DaVinci, the first activation will show the message “POWER DEPLETED IN LAST DIVE” will be displayed and in the Logbook page 1 of that dive the message “ERROR” will be displayed next to the start time.



DO NOT DIVE FOR 24 HOURS IF LOW POWER SHUT OFF OCCURRED AS NITROGEN LOADING OXTOX RELATED CALCULATIONS ARE NOT PERFORMED AFTER SHUT OFF.

10.2. Installing & Removing the Bungee Straps

1. The DaVinci Wrist comes equipped with two hex key tools for disassembling the wrist straps from the housing. The hex keys are to be inserted into the screws on each side to begin.



2. Use one hex key to secure the left screw while turning the right screw counter-clockwise to loosen and remove it from the pin. Use the end of the hex key to push out the strap pin from the silicone wrist strap. (perform this step for each strap)



3. Remember to keep track of your wrist straps, 4x screws, and 2x pins for future use. Best practice is to apply a drop of Loctite 425 to the pin threads before re-installing the screws.

4. For bungee installation, the overhand knot will be used. Note that over time, overhand knots will set and become difficult to untie. 4 mm bungee cord can be used for replacement.



5. Cut the 750 mm bungee cord into two equal lengths.



6. Thread one bungee cord through the housing as shown.



7. Insert the free end of the bungee into the opposite side, adjust the length, and secure it with a retaining overhand knot.

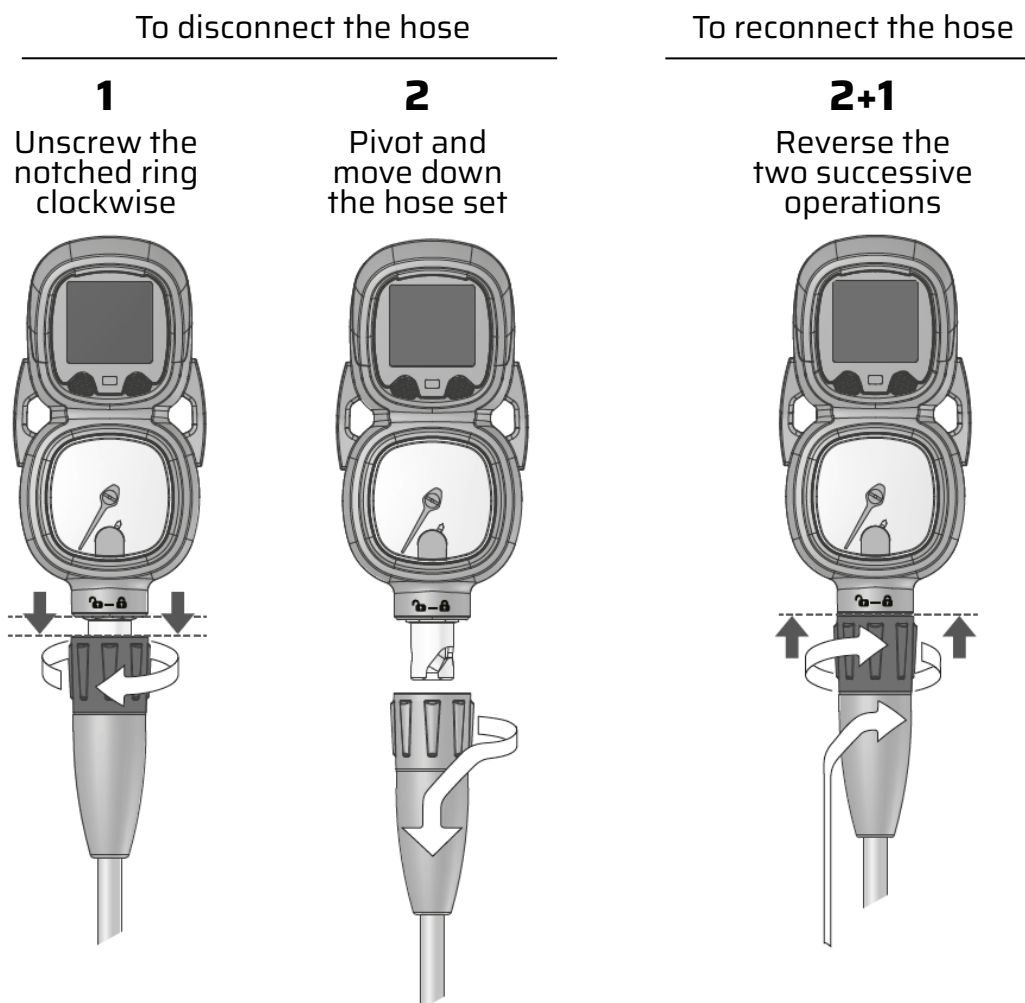


8. Repeat the same procedure with the second bungee by attaching it to the opposite side of the DaVinci.



THERE ARE MULTIPLE WAYS TO ATTACH THE BUNGEE CORDS. This method is explained in this manual because it is simple and provides redundancy with two straps, helping prevent the loss of a computer during a dive.

10.3. Hose QD Connection



IF THE NOTCHED RING IS ROTATED INTO THE LOCK POSITION BEFORE MOUNTING THE QD MALE, THE HOSE WILL NOT CONNECT PROPERLY. Please check to ensure hose connection is secure before use!

10.4. Other Maintenance Items

Protect your DaVinci from shock, excessive temperatures, exposure to chemicals, and tampering.

Soak and rinse the DaVinci in fresh water at the end of each day of diving and check to ensure that all areas are free of debris and 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 DaVinci under gently running fresh water. Towel dry before storing. Keep your DaVinci cool, dry, and protected during transport.

11. REFERENCE

11.1. Technical Specifications

Dimensions and weight (Davinci Wrist)

- Length: 60.33 mm (2.38 in)
- Width: 54.80 mm (2.16 in)
- Height: 23.34 mm (0.92 in)
- Weight: 109.50 g (3.86 oz)

Operating conditions

- Water resistance: 100 m (330 ft) (complying with ISO 6425)
- Normal altitude range: 0 to 3,300 m (0 to 11,000 ft) above sea level
- Operating temperature: 0 °C to 40 °C (32 °F to 104 °F)
- Storage temperature: -20 °C to +50 °C (-4 °F to +122 °F)
- Maintenance cycle: 2 (two) years

Depth gauge

- Temperature compensated digital pressure sensor
- Maximum static pressure: 10 bar (145 psi) (complying with EN 13319 and ISO 6425)
- Accurate to 100 m (328 ft) complying with EN 13319
- Depth display range: 0 to 99 m (0 to 330 ft)
- Resolution: 0.1 m from 0 to 100 m (1 ft from 0 to 330 ft)

Temperature display

- Resolution: 1 °
- Display range: -20 °C to +50 °C (-4 °F to +122 °F)
- Accuracy: ± 2 °C (± 3.6 °F) within 20 minutes of temperature change

Other displays

- Dive time: 0:00 to 9:99 (hr:min)
- Surface time: 00:00 to 23:59 (hr:min. blank after 24 hours)

Calendar clock

- Accuracy: ± 25 s/month (at 20 °C (68 °F))
- 12/24 h display

Gauge Timer

- Accuracy: 1 second
- Display range: 00:00 to 59:59 (min:sec)
- Resolution: 1 second

Logbook

- Sample rate: default 10 seconds
- Memory capacity: 60 hours of diving with 2 second sample rate

11.2. Default Settings

- | | |
|----------------------------------------|-----------------------|
| • DC Operating Mode | COMPUTER |
| • Date & Time of Day | Actual at calibration |
| • Date & Hour Formats | Month.Day & 12 Hour |
| • Units | Metric |
| • Sound | ON |
| • Brightness | 80% |
| • Auto Dim | OFF |
| • Gas 1 | AIR |
| • Gas 2 | OFF |
| • Gas 3 | OFF |
| • Gas 4 | OFF |
| • Max PPO ₂ (for all gases) | 1.60 ATA |
| • Oxtox Alarm | 80% |
| • Dive Time Alarm | OFF |
| • No Deco Alarm | 5 minutes |
| • Depth Alarm | OFF |
| • Safety Stop Time/Depth | 3 minutes/5 M |
| • Deep Stop | OFF |
| • Conservatism | CO |
| • Water | Salt |
| • Sample Rate | 10 seconds |

11.3. Display Ranges and Resolutions

<u>Numeric Display</u>	<u>Range</u>	<u>Resolution</u>
Time of Day	00:00 - 23:59 (hr:min)	1 minute
Temperature	0 to 99 °F (-18 to 60 °C)	1°
Altitude Level	Sea, Altitude1 - Altitude4	1 level
F02 Set Point	Air, 22 - 99%, 02	1%
Dive number in Logbook	#1 - #25	1
Surface Interval time	0:00 - 23:59 (hr:min)	1 minute
Time to Fly	0:00 - 23:50 (hr:min)	1 minute
Depth, Max Depth	0 - 330 FT (0 - 100 M)	1 FT (.1 M)
Dive Time	0:00 - 9:59 (hr:min)	1 minute
No Deco Time	0:00 - 9:59 (hr:min)	1 minute
Deep Stop Time	0:00 - 2:00 (min:sec)	1 second
Safety Stop Time	0:00 - 5:00 (min:sec)	1 second
Chronometer	00:00 - 99:59 (min:sec)	1 second
Deco Stop Time	0 - 99 (min)	1 minute
PPO2 Value	0.00 - 5.00 ATA	.01 ATA
Oxtox	0 - 100%	1%

11.4. Warranty

CRESSI LIMITED WARRANTY FOR CRESSI DIVE COMPUTERS AND RELATED ACCESSORIES.

IMPORTANT NOTICE: This warranty does not limit the rights granted to the consumer by the applicable National Regulations concerning the sale of consumer goods.

Cressi provides this limited warranty to the purchaser of the Cressi dive computer of the Cressi dive computer accessories (product). During the warranty period, Cressi or an authorized Cressi service center, will, at its sole discretion, remedy any defects in material, design and workmanship free of charge by repair of the product or replacement of the product in accordance with this limited warranty.

This limited warranty is valid and effective only in the country of purchase of the product, provided that Cressi originally intended the product for sale in that country. However, in the case of purchase of the product in any of the member states of the European Union, Iceland, Norway, Switzerland and Turkey, and where Cressi originally intended the product for sale in any of those countries, this limited warranty is valid and effective in all of those countries.

Limitations to the service under this warranty may result from the presence of country-specific items in the products.

For countries outside the European Union and other than Iceland, Norway, Switzerland and Turkey, provided that the purchaser agrees to pay a maintenance fee and reimbursement for shipping costs incurred by Cressi or an authorized Cressi center, it is possible to obtain service under the warranty in countries other than the country of purchase of the product. Any replacement parts will be provided free of charge in this case.

WARRANTY PERIOD

The warranty period runs from the date of retail purchase by the first purchaser.

The product may consist of multiple components which may be covered by a different warranty period, specifically this limited warranty is valid for a period of:

- A) two years for dive computers
- B) one year for consumables and accessories, including, but not limited to, straps, buckles, etc. (whether included in the sales package of the dive computer or sold separately).

To the extent permitted by applicable National Regulations, the warranty period will not be extended or renewed or modified in any way as a result of subsequent resale, product repair or product replacement authorized by Cressi. However, parts of the product repaired or replaced during the warranty period, or the replaced product will be warranted for the remainder of the original warranty period or for three months from the date of repair or replacement, whichever interval is longer.

HOW TO TAKE ADVANTAGE OF WARRANTY SERVICES

If you intend to make a claim under this limited warranty, contact your authorized Cressi retailer for information on how to file a claim; information will be provided on how to apply the warranty to your product. If you wish to return the product by shipping it to your authorized Cressi retailer, please ensure that transportation is prepaid.

The validity of claims made against this limited warranty, is subject to notifying Cressi or an authorized Cressi service center of the alleged defect within a reasonable time after the observation of the defect, and in no event later than the expiration of the warranty period. For any claim under this limited warranty, you must also provide your name and address, proof of purchase which must clearly state the name and address of the seller, date and place of purchase, and product type.

A warranty repair request will be fulfilled free of charge at the sole discretion of Cressi or an authorized Cressi center and the product will be repaired or replaced within a reasonable time. If the product is found not to comply with the terms and conditions set forth in this limited warranty, Cressi or an authorized Cressi center reserves the right to charge for maintenance and/or repair.