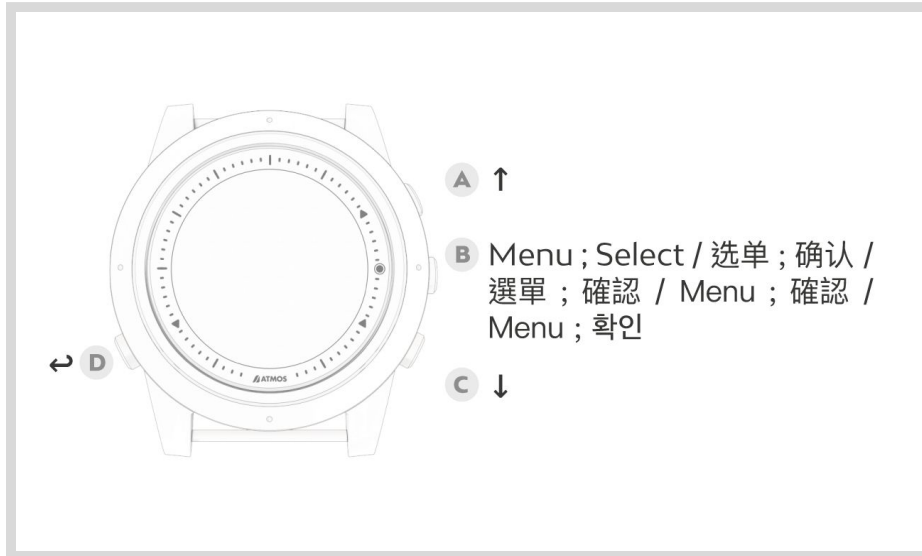# MISSIONONE

make the dive simple

1.General

1.1. Diving Safety

- **All dive gear will fail. It is not a question of whether it will fail, but when it will fail. Additionally, firmware may have unidentified bugs. Do not use the MISSION ONE dive computer as your only source of information. Use a backup computer or tables, and complete a dive plan before each dive.**

- Diving involves risk. Only trained divers should use the MISSION ONE. Dive computers are not a substitute for training. Do not use the MISSION ONE on any dive beyond your certification level.

- The MISSION ONE is designed for recreational diving. Do not use the MISSION ONE for commercial diving applications.

- It is assumed that the diver's ascent rate is 10m/min(33ft/min). Ascending significantly faster than this will impact decompression calculations.

- Please follow the decompression stops advised by MISSION ONE. Violation will increase the risk of decompression sickness, which may lead to serious injury or death.

- The MISSION ONE is a precision instrument. Take care to protect your computer from damaging shocks or chemical exposure. Store your MISSION ONE out of direct sunlight and avoid exposure to excessive heat or leaving it in a vehicle exposed to the sun.

- Do not wear your MISSION ONE in hot spring pools or saunas.

- After each day of diving, rinse the MISSION ONE thoroughly with fresh water. Do not use high-pressure sprays to avoid damage to buttons or sensors. If the device is covered with dirt, soak it in fresh water. Do not use any solvents or detergents.

- Please use the Screen Guard included in the package. Replacement screen guards may be purchased from an authorized dealer.

1.2. Button Function

A ↑

B Menu ; Select / 选单 ; 确认 / 選單 ; 確認 / Menu ; 確認 / Menu ; 확인

C ↓

D ↩

1.3. Power On/Off

Power on: Press and hold button D for 3 seconds.
Power off: Press and hold button D for 3 seconds while in watch mode.

1.4. Charging

Please make sure the charging points are clean and dry. It takes 2 hours to fully charge the MISSION ONE.
(Power input : DC 5V/2A)

1.5. APP Pairing

Using the ATMOS App to sync the dive log.

1. Download ATMOS App:

    iOS
    https://apple.co/31ouXTE

    Android
    http://bit.ly/2WAfdNL

2. After logging in to the app, go to"**Your device**", select "**Start Pairing**".
    ※ Enable bluetooth on your mobile phone.
    ※ Android users may need to authorize the connection to the device.

3. MISSION ONE: **SETTING → CONNECT → CONNECT APP**: **ON**

4. ATMOS App: Select your device. Enter the 6 Pin code shown on MISSION ONE. Connected!

1.6. APP Unpairing

1. MISSION ONE SETTING → CONNECT → UNPAIR: YES
2. ATMOS App: Select, or swipe left to delete the paired MISSION ONE.
3. Your mobile phone: Bluetooth → Forget the device

1.7. Smart Notification

Smart Notification allows MISSION ONE to display SMS messages and phone calls received on the paired smartphone. (iOS 10, Android)

Enable Smart Notification: MISSION ONE: SETTING -> CONNECT -> NOTIFICATION: On.
※ If "Call Only" is selected, the MISSION ONE only displays call notifications.

1.8. Sync Log

Sync the dive logs in MISSION ONE to ATMOS App.
- **ATMOS App:** Select your Computer in the ATMOS App, then press the sync button on the right side of the APP screen.
※ Requires a stable internet signal.

1.9. Firmware Update

ATMOS regularly releases new firmware including new features, bug fixes and improvements. Keep the firmware of your MISSION ONE updated.
※ Requires a stable internet signal.
※ If updating the firmware via the app fails, please use the USB cable to update.

1. **Via USB cable (SUGGESTED):**
   a. Download the firmware update tool from https://www.atmos.app/support/ **(Win10 / Mac)**
   b. Install and run the firmware update tool.
   c. Connect MISSION ONE to the PC with the charging cable.
   d. Press the **Update firmware** button.
   e. MISSION ONE will restart once the update is completed.

2. **Via ATMOS App (OTA):**
   a. Select your device in the ATMOS App.
   b. The upgrade button will show if there is a new version of firmware.
   c. Press the Upgrade button.
   d. MISSION ONE will restart once the update is completed.

※ If updating the firmware via the app fails, please use the USB cable to update.

2. Watch Mode

2.1. No Fly Time and Surface Interval

※ Due to residual nitrogen in the body after diving please wait until the No Fly time icon disappears before flying or ascending to altitudes above 300m (1,000ft).
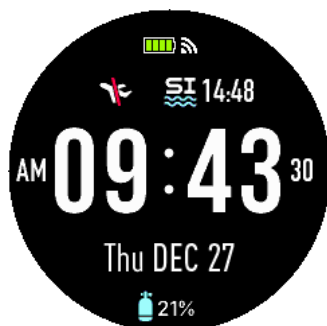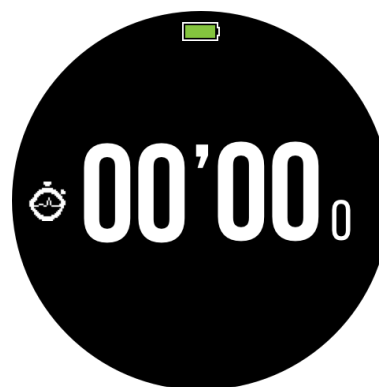
※ Upper-left: No fly time Icon. Displays for 24hrs starting from the moment you exit the water following the last dive.
※ Upper-right: Surface interval (S.I.) icon. Counter starts from the moment you exit the water following your last dive.

※ Bottom: Default Dive Mode Icon (Scuba with O2% / Freedive / Gauge)

2.2. Stopwatch

Activate: Press and Hold button C for 2 seconds while in watch mode.

▸ **Start**: Press button B.
▸ **Mark**: Press button B again while running.
▸ **Stop:** Press button A.
▸ **Reset:** Press button B when stopped.
▸**Exit:** Press and Hold button C for 2 seconds.

2.3. Enter Water Auto-on

The default dive mode of auto-on is **Scuba Mode**. The default dive mode may be changed in **SETTING.**

!!!Do not rely on the auto-on function.

It is important to check all settings of the dive computer prior to descent on each dive.
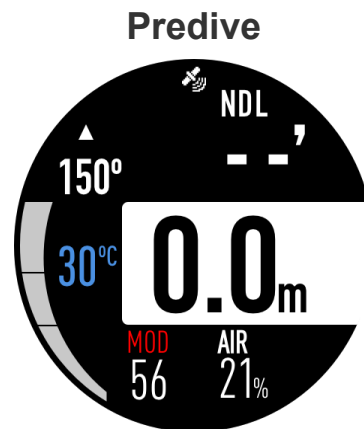
2.4. Sunrise & Sunset time

sunrise | sunset
MISSION ONE shows the sunrise/ sunset time while in watch mode by pressing button C to scroll the button

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information after GPS signal is acquired.

※ **How to acquire the GPS signal:**

3. Scuba Mode

3.1. Screen Layout and Alarms

Predive

Upper-left: Compass heading
Left: Ascent rate bar
Mid-left: Water temperature.
Upper-right: NDL (No Decompression Limit)
Right: Current depth
Bottom-left: MOD - (Maximum Operation Depth)
Bottom-right: 21% = AIR / 22-40% = NITROX

※**Press button B to access the advanced settings.**

During the dive

Upper-left: Compass heading
Left: Ascent rate bar **(Red = faster than 10m(33ft)/min)**
Left: Water temperature
Upper-right: NDL (No Decompression Limit)
Mid: Current depth
Bottom: Dive time

※ **Press button C: Scroll to see current time, maximum depth and average depth.**

※ **Press button D: Turns the backlight On/Off.**

※ **Press and Hold button D: Changes the backlight brightness level.**

Mark Compass Heading

Mark 60°

Hold button B: to Enter the Mark Compass Heading function.

Press button A: Mark heading degree.
Press button B: Return / Exit
Press button C: Unmark heading.

※ Because of changes in the surrounding magnetic field, it is recommended to calibrate the compass before each dive.

Fast Ascent

NDL 28'
150°
18.6m
SLOW DOWN

The *Fast Ascent* alarm appears if ascending too fast.

※ It is recommended to ascend no faster than 10m(33ft)/min.

Time Alarm

TIME ALARM

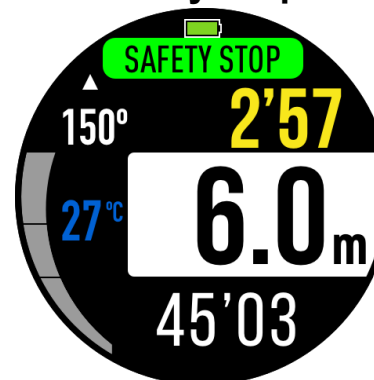*Time Alarm* display notifies the diver when the Dive Time has been reached.

Depth Alarm

DEPTH ALARM

Depth Alarm notifies the diver when the maximum depth has been reached.
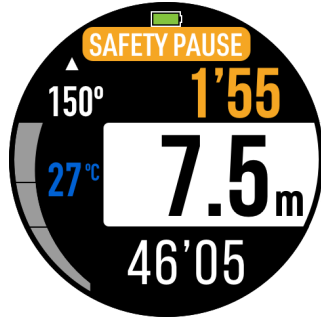
Safety Stop

SAFETY STOP
150° 2'57
27℃ 6.0m
45'03

Safety Stop appears when the diver has ascended to 6m(20ft) and the max depth of the dive is over 10m(33ft).

The NDL indicator will be replaced by a 3 minute countdown.
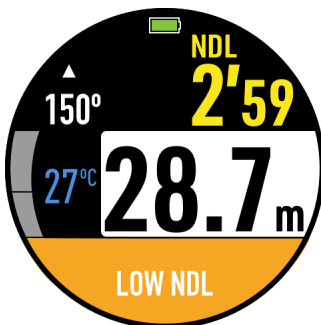
Safety Stop Pause

When ascending above 3m(10ft) or descending below 7m(20ft) during a safety stop *Safety Pause* will display and the countdown will be paused.

Safety Stop Clear

Safety Clear notifies the diver when the safety stop is completed.

NDL below 3mins

LOW NDL notifies the diver every minute when the remaining NDL time is less than 3 mins.

Decompression Stop Needed

Decompression stops are mandatory stops that must be followed in order to minimize the risk of decompression illness (DCI).

In the accompanying illustration the **6m** indicates the ceiling stop depth.

The **3'** indicates the length of the decompression stop (in minutes).

※ Please stay close to and do not ascend above the ceiling depth until all deco stops are completed.

Missed Stop
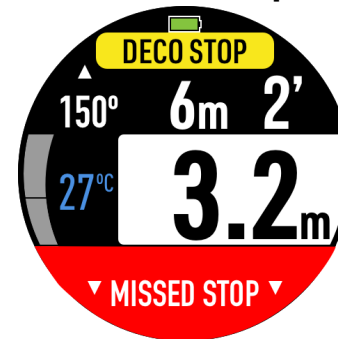
Missed Stop alarm appears when the diver has ascended above the deco stop ceiling depth.

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MOD

MOD (Maximum Operating Depth) is the maximum allowable depth of the current breathing gas as determined by PPO2 limits.

※ Immediately ascend to a safe depth when seeing the *MOD Alarm*.
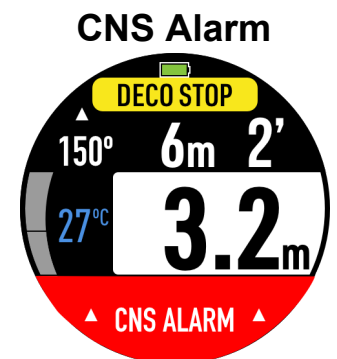
CNS Alarm

CNS Alarm appears when central nervous system toxicity loading percentage is greater than 85%.

※ Immediately ascend when the CNS alarm is displayed.

Battery Low

Battery Low Notifies the diver when battery power is below 20%.

3.2. NITROX
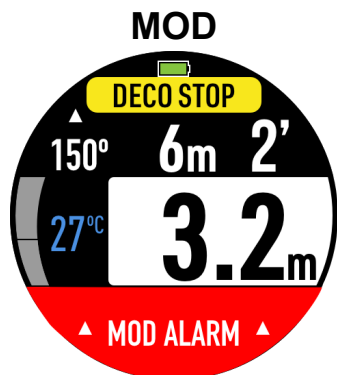
While in Scuba Mode, Press button B to enter **Advanced setting**. Then scroll to the **Air Mix (21-40%)**

and **PPO2 (1.2-1.6)** settings.

!!! Always check the oxygen percentage, PPO2 and corresponding MOD before each dive.

3.3. Dive Planner

Press button B to enter Advanced setting in scuba mode. Then find the **Dive Plan** setting.

Dive Plan
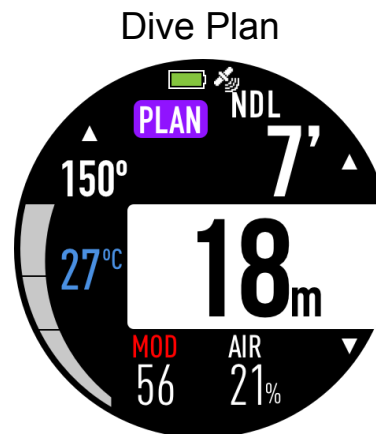
Press buttons A and C change the planned depth and view the corresponding allowable NDL for the selected depth.

3.4. Conservatism

Press button B to enter **Advanced setting** while in scuba mode. Then scroll to the **CONSERVATISM** setting.

!!!Do not change the conservatism setting until you understand the effects.

Conservatism	**HIGH** (More conservative) **MEDIUM** (Default setting) **LOW** (More NDL than the NORMAL) **CUSTOM** (Adjust GF low and GF high) **Adjusting GF (Gradient Factor) will affect decompression calculations. For more detail, please refer to Erik Baker's (Clearing up the Confusion About Deep Stops)**

3.5. Advanced Setting

In scuba mode prior to a dive, press button B to access advanced settings.

!!!Do not change any setting until you understand the effects.

Advanced Setting:

Conservatism	See 3.4. conservatism
Air/Nitrox	See 3.2. Nitrox

Dive Planner	See 3.3. Dive Planner
Water Type	Salt or Fresh. This setting affects depth reading due to the different densities of salt and freshwater.
Start Depth	Depth at which the dive begins.
End Dive Delay	The elapsed surface time after which the dive will end.
Time Alarm	Alerts the diver when elapsed dive time reaches the dive time limit.
Depth Alarm	Alerts the diver when depth reaches the depth limit.
Dive site	See 6.3 Dive Site

4. Freedive Mode

!!!Due to the residual nitrogen retained by the body after scuba diving, a minimum surface interval of 12 hours is recommended before engaging in freediving.

4.1. Display Layout and Alarms

Predive
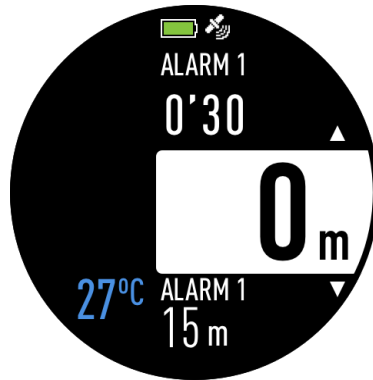
Press button B: View Time Alarm settings.

Press button C: Scrolls through depth alarm settings.

※Press button B: Access advanced setting.

※Hold button C: Access stopwatch.

During the dive
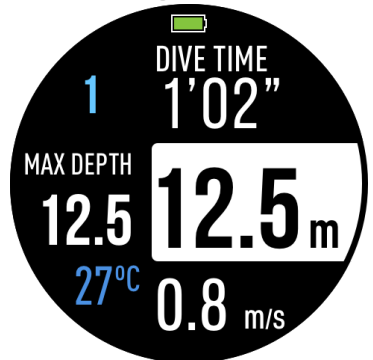
Upper-left: Dive count
Mid-left: Max depth
Bottom-left: Water temp
Upper-right: Dive time
Right: Current Depth
Bottom-right: Speed m(ft)/sec

※ Press button D: Turning backlight On/Off.

※ Hold button D: Change backlight's brightness level.

Surface Rest
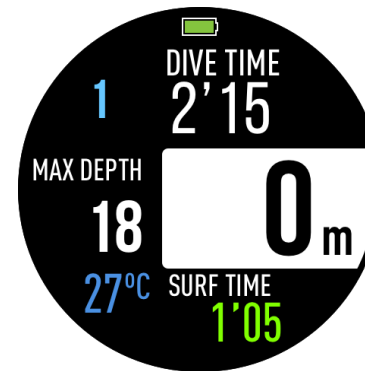
Upper-left: Dive count
Mid-left: Max depth of last dive
Bottom-left: Water temp
Upper-right: Dive time of last dive
Bottom-right: Surface Interval

※ Press button B: View current time.

※ Press button D: Turn backlight On/Off.

※ Hold Button : Change backlight brightness level.

※ Press button B: Access advanced setting.

※ Hold button C: Access stopwatch.

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Rest Finished

Dive depth < 30m (100ft)
Notify user when the Surface time reaches 2 times of the dive time of last dive.

Dive Depth >30m (100ft)
Notify user when the Surface time reaches the **maximum depth/5 (min)** of last dive.

Time Alarm

Time Alarm display notifies the diver when the Dive Time has been reached.
10 sets

Depth Alarm

Depth Alarm notifies the diver when the maximum depth has been reached.
10 sets

Battery Low

Battery Low Notifies the diver when battery power is below 20%.

4.2. Time Alarm

Press button B to access advanced settings in Freedive mode to set Time Alarms.

4.3. Depth Alarm

Press button B to access advanced setting in Freedive mode to set Depth alarms.

4.4. Stopwatch
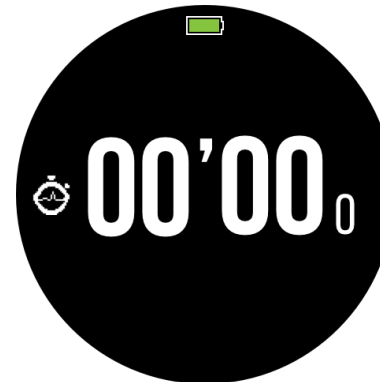
Activate: Hold button C for 2 seconds at surface in freedive mode.

▸ **Start**: Press button B.
▸ **Mark**: Press button B while running.
▸ **Stop:** Press button A.
▸ **Reset:** Press button B when stopped.
▸**Exit:** Hold button C for 2 seconds.

4.5. Advanced Setting

In Freedive mode prior to a dive, press button B to enter advanced settings.

!!! **Do not change any setting until you understand the effects.**

Advanced setting:

Water Type	Salt or Fresh. This setting affects depth reading due to the different densities of salt and freshwater.
Start Depth	Depth at which the dive begins.
End Dive Delay	The elapsed surface time after which the dive will end.
Time Alarm	See 4.2. Time Alarm
Depth Alarm	See 4.3. Depth Alarm
Dive site	See 6.3 Dive Site

5. Gauge Mode

In gauge mode the MISSION ONE functions as a depth and time indicator. Decompression calculations are disabled.

!!! **Scuba Mode will be locked for 24 hours after using gauge mode to dive.**

!!! **Unlock: SETTING → SYSTEM → RESET NITROGEN**

5.1. Display Layout and Alarms

Predive
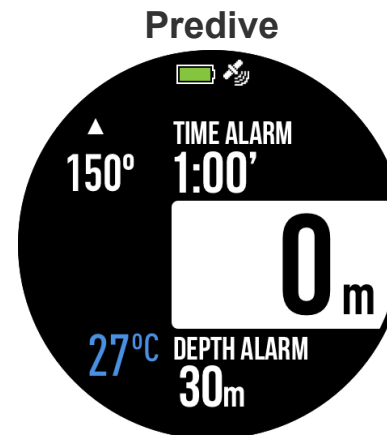
Upper-left: Compass heading.
Bottom-left: Water temperature.
Upper-right: Time alarm.
Right: Depth.
Bottom-right: Depth alarm.

※Press button B to access advanced settings.

During The Dive

Upper-left: Compass heading.
Mid-left: Max depth.
Bottom-left: Water temperature.
Upper-right: Dive time.
Right: Dive depth.
Bottom-right: Bottom timer.

※ Press button C: Reset the Bottom timer.

※ Press button D: Turns backlight On/Off.

※ Hold button D: Changes backlight brightness level.

※ Hold button B: Enter mark compass heading function.

Mark Compass Heading

Hold button B to enter mark compass heading function.

Button A: Mark heading.
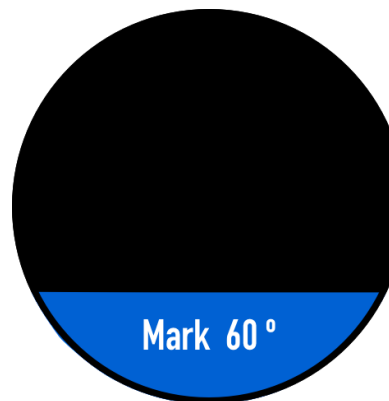
button B: Return / Exit
button C: Unmark heading.

Time Alarm

Time Alarm display notifies the diver when the Dive Time has been reached.

Depth Alarm

Depth Alarm notifies the diver when the maximum depth has been reached.

Battery Low

Battery Low Notifies the diver when battery power is below 20%.

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5.2. Bottom Timer

During a dive: Press button C to reset the bottom timer.

5.3. Advanced Setting

In gauge mode prior to a dive, press button B to enter advanced settings.

!!! Do not change any setting until you understand the effects.

Advanced setting:

Water Type	Salt or Fresh. This setting affects depth reading due to the different densities of salt and freshwater.
Start Depth	Depth at which the dive begins.
End Dive Delay	The elapsed surface time after which the dive will end.
Time Alarm	Alerts the diver when elapsed dive time reaches the dive time limit.
Depth Alarm	Alerts the diver when depth reaches the depth limit.
Dive site	See 6.3 Dive Site

6. GPS and E-Compass

6.1. Acquire the GPS signal

!!! The GPS function is designed to mark and guide the user to entry/exit coordinates in an open and unobstructed environment.

!!! The Mission One may not be able to to acquire a GPS signal due to environmental interference or obstruction.

(1) Locate an open area with an unobstructed view of the sky.

(2) Make sure the watch face is pointed to the sky.

(3) Enable GPS - Switch to any dive mode or use divesite function, you will see a blinking satellite icon.

P.S. It may take 5 minutes to acquire initial GPS coordinates.

> *P.S. Using the "GPS"sync button in ATOMS App can sync the satellite ephemeris data to the*

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(4) Acquired ✅
The satellite will stop blinking and the MISSION ONE will vibrate when GPS coordinates are acquired.

6.2. Mark Entry/Exit GPS Coordinates

In dive mode the MISSION ONE will attempt to acquire the GPS coordinates. If successful, upon descent the coordinates will be saved as the dive Entry Coordinates.

After surfacing, the MISSION ONE will attempt to reacquire the GPS coordinates. If successful, the coordinates will be saved as the dive Exit coordinates.

6.3. Dive Site Guide

Dive Site function can be accessed in Scuba, Freedive, Gauge Mode's advanced setting prior to descent.

Dive Site

Divesite
1) Locate an open area with an unobstructed view of the sky, avoid magnetic fields.
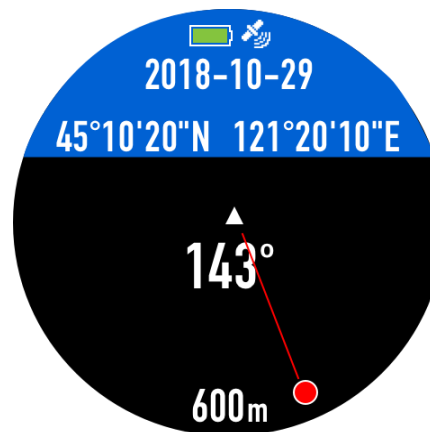
2) Scroll to Nearby Sites function in the advanced setting in each dive mode.

3) Wait for the GPS signal (it may take some time depending on signal quality)

4) Mission One will show the 5 nearest sites.

ADD: Select *Add* to add a new dive site.

MY LIST: View and activate the dive site guide

6.4. Compass Calibration

❗❗❗ The compass is magnetically oriented and will be disturbed if it is too close to electric fields, magnets, and metal objects.

❗❗❗ The electronic compass is small and subject to interference. Please avoid wearing another computer or compass next to the MISSION ONE

Calibrate: MENU → COMPASS → Move MISSION

ONE in an "∞" pattern until a bearing is displayed on the screen.

7. Warranty & Maintenance

7.1. Screen Guard

To apply a screen Guard:
1) Clean the glass face of the MISSION ONE.
2) Make sure the upper side of the screen guard is on the top.
3) Remove application mask 1 (adhesive side) and apply to the Mission One face.
3) Remove the remaining application mask.

7.2. Watch Strap

MISSION ONE is compatible with 24mm width strap.
Socket screw: 1.5mm

7.3. Storage and Maintenance

After each day of diving, rinse the MISSION ONE thoroughly with fresh water. Do not use high-pressure sprays to avoid damage to buttons or sensors. If the device is covered with dirt, soak it in fresh water. Do not use any solvents or detergents.

As with any precision instrument, take care to protect your computer from damaging shocks or chemical exposure. Store your MISSION ONE out of direct sunlight and avoid exposure to excessive heat or leaving it in a vehicle exposed to the sun.

Please use the Screen Guard included in the package. Replacement screen guards may be purchased from an authorized dealer.

To store your MISSION ONE One, fully charge the computer then turn the MISSION ONE off. Store your MISSION ONE in a cool, dry place, protected from damaging shocks, heat, chemicals, and away from sunlight

7.4. Warranty

Limited Warranty

With the exception of consumables or parts with limited resistance, such as the case, the glass, battery and band, this product is guaranteed to be free from defects in materials or workmanship within the warranty period. During the warranty period, and upon proof of purchase, the product will be repaired with ATMOS replacement or refurbished parts, or replaced by a new or refurbished device of the same or a similar model. To obtain these warranty services, please take or send the product, postage paid, with a copy of the sales receipt or other

proof of purchase showing the date of purchase, to a member of the ATMOS Authorized Warranty Network or the store where purchased.

The customer shall NOT have any claim under this warranty for repair, replacement or refund if:
1) The problem is caused by improper, rough or careless treatment.
2) The problem is caused by a fire or other natural calamity.
3) The problem is caused by improper repair or adjustments made by anyone other than an ATMOS service center.
4) The problem is wear on the case, glass, battery, or band;
5) The proof of purchase is not presented when requesting service.
6) The warranty period has expired.

NEITHER THIS WARRANTY NOR ANY OTHER WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE, SHALL EXTEND BEYOND THE WARRANTY PERIOD. NO RESPONSIBILITY IS ASSUMED FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING, WITHOUT LIMITATION, DAMAGES RESULTING FROM INACCURACY OR MATHEMATICAL INACCURACY OF THE PRODUCT OR LOSS OF STORED DATA. SOME STATES OR JURISDICTIONS DO NOT ALLOW LIMITATIONS OF HOW LONG AN IMPLIED WARRANTY LASTS AND SOME STATES OR JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, OR THE EXCLUSION OR LIMITATION BY A PARTY OF LIABILITY FOR DEATH OR PERSONAL INJURY CAUSED BY THAT PARTY'S NEGLIGENCE. THE ABOVE LIMITATIONS OR EXCLUSIONS SHALL NOT IN SUCH CASES APPLY. THIS WARRANTY GIVES YOU SPECIFIC RIGHTS, AND YOU MAY ALSO HAVE JURISDICTION, OR COUNTRY TO COUNTRY WARRANTY. NOTHING IN THIS WARRANTY AFFECTS YOUR STATUTORY RIGHTS.

THANK YOU FOR CHOOSING ATMOS.

7.5. Specification

General

Model	Model MISSION ONE (KD2)
Measurements	50.5 x 50.5 x 18 mm
Weight	90 g
Water resistance	10 ATM , 100 meters
Bezel material	Stainless steel 316L
Lens material	High strength anti-wear high-transmission glass
Case material	Fiber-reinforced polymer
Display type	Sunlight-visible, transflective, color display, memory-in-pixel (MIP)
Display size	1.2" (30.4 mm) diameter
Display resolution	240 x 240 pixels
Button material	Stainless steel 316L
Watch Strap	✔ (24 mm)

Battery life	**Dive mode:** Up to 40 hours (backlight off) **Backlight on:** Up to 15 Hours (backlight mid) **Watch mode:** Up to 15 days **Smartwatch mode:** Up to 10 days
Memory	100 Dive Logs
Language	English/ Simplified Chinese/ Traditional Chinese/ Japanese/ Korean
Unit	Metric/ Imperial
Operating Temperature	10° C to 40° C/ 50° F to +104° F

Clock

Time/date	✔
Alarm clock	✔
12/24 hour clock	✔
Backlight active on wrist raise	✔

Sensors

GPS	✔
Barometric altimeter	✔
Compass	✔
Gyroscope	✔
Accelerometer	✔
Thermometer	✔
Depth sensor	✔

Daily Smart Features

Connectivity	Wireless (ATMOS™ App)
Smart Notification	✔ (iPhone®, Android™)
Smartphone compatibility	iPhone®, Android™
Compatible with ATMOS™ Mobile App	✔

Diving Features

Dive activity maximum operating depth	10 ATM, 100 meters
Scuba mode	21% ~ 40% (Single-gas)
Gauge mode	✔
Freedive mode	✔
Apnea Timer	✔
Decompression model	Bühlmann ZHL-16c (GF configurable)
PPO2 limit	1.2-1.6
Auto start/end dive	✔
Dive ascent rate monitor	✔
No fly time	✔
Surface Time	✔
Dive Planner	✔

Backlight	✔ (configurable time and intensity; auto-on at depth)
E-Compass	✔
Lock compass index	✔
Save dive entry and exit GPS coordinate	✔
GPS dive spot guide	✔ (Surface use only)
Custom activation depth	✔
Custom end-dive timeout	✔
Fresh/Salt water	✔
Alarm methods	Vibration, Audio, and Visual display message.
Alerts & alarms	Fast Ascent │ Safety Stop │ Safety Stop Pause │ Safety Stop Clear │ Low NDL │ Decompression │ Deco Stop │ Deco Stop Ceiling Violation │ Time alarm │ Depth alarm │ Low battey │ MOD │ CNS

What's in the box?

What's in the box	ATMOS MISSION ONE with Silicone strap Charging Cable Scratch Guard*2 Quick Start Guide

7.6. FCC Statement

Federal Communication Commission Interference Statement

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

to try to correct the interference by one or more of the following measures:

l   Reorient or relocate the receiving antenna.

l   Increase the separation between the equipment and receiver.

l   Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

l   Consult the dealer or an experienced radio/TV technician for help.

FCC Caution

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

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

This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.

Federal Communication Commission (FCC) Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. Enduser

must follow the specific operating instructions for satisfying RF exposure compliance.

➢www.atmos.app

➢info@atmos.app

➢FB:atmosocean

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