ATMOS

V3.1-20200130

1.General

1.1. Diving Safety

- **All dive gears will fall. It is not whether it will fall but when it will. Firmware may have bug, too. Do not use the MISSION ONE as your only source of information. Have a backup computer and do dive plan before each dive.**

- Diving has risk. Only trained divers should use the MISSION ONE. Do not use the MISSION ONE in any dive beyond your certification level.

- MISSION ONE is designed for recreational diving. Do not use it in commercial diving.

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

- 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.

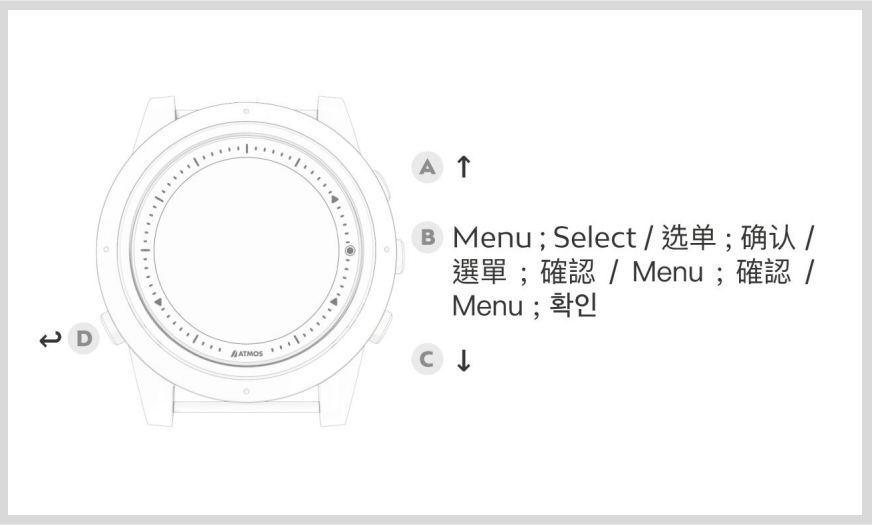
- Do not throw, collide, press the MISSION ONE. Do not expose MISSION ONE under the sunlight or left it in a car under sunlight.

- Do not bring MISSION ONE into hot spring pool or sauna.

- After dive, rinse the MISSION ONE thoroughly with fresh water. Do not use high-pressure spray in case of damaging the button and sensor. If the equipment is covered with dirt, soak it in fresh water and do not use any solvent or detergent.

- Please use the Screen Guard included in the package. It can be purchased from an authorized dealer when you need to replace it.

1.2. Button Function



1.3. Power On/Off

Power on: Hold button D for 3 sec.
Power off: Hold button D for 3 sec on watch mode.

1.4. Charging

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

1.5. APP Pairing

Use ATMOS App to sync dive log.

1. Download ATMOS App:

iOS
https://apple.co/31ouXTE

Android
http://bit.ly/2WAfdNL

2. After logging, go to“**Your device**”, select “**Start Pairing**”.

※ Enable bluetooth of the mobile phone.
※ Android may need to authorize the connection of the device.

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

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

1.6. Unpair

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 show the message and phone call from the paired smartphone. (iOS 10, Android)

Enable Smart Notification: MISSION ONE: SETTING -> CONNECT -> NOTIFICATION: On.
※ If select Call only, MISSION ONE only notify phone call and SMS.

1.8. Sync Log

Sync the dive logs in MISSION ONE to ATMOS App.

- **ATMOS App:** Press the sync button on the right side in the page of Your device.
  ※ Require stable internet signal.

1.9. Firmware Update

ATMOS regularly releases new firmware including new feature, bug fix and improvement. Keep the firmware of your MISSION ONE updated.
※ Require stable internet signal.
※ If failed to update the firmware via app, please use USB cable to update.

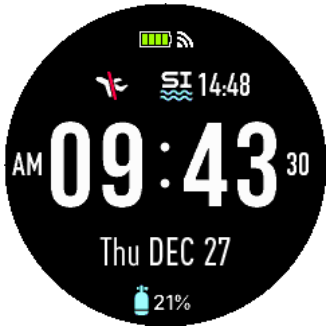
1. **Via USB cable (SUGGESTED):**
   a. Get firmware update tool from https://www.atmos.app/support/ **(Win10 / Mac)**
   b. Install, then run the firmware update tool.
   c. Connect MISSION ONE to th PC with the charging cable.
   d. Press **Update firmware** button.
   e. MISSION ONE will restart once update is completed.
2. **Via ATMOS App (OTA):**
   a. Select your device in the ATMOS App.
   b. The upgrade button will show if there's a new version of firmware.
   c. Press Upgrade button.
   d. MISSION ONE will restart once update is completed.

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

2. Watch Mode

2.1. No Fly Time and Surface Interval

※ Due to residual nitrogen in body after diving. Please wait until the No fly time disappears before taking flight.
※ Avoid moving to an area altitude above 300m (1000ft).



※ Upper-left: No fly time Icon.
Counting down for 24hr from the moment exit water in last dive.

※ Upper-right: Surface interval (S.I.) icon. starts from the moment exit water in last dive.

※ **Bottom:** Default dive mode (Scuba with air mix/ freedive / gauge)

2.2. Stopwatch

Activate: Hold button C for 2 seconds on watch mode.

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

2.3. Enter Water Auto-on

The default dive mode of auto-on is **Scuba Mode**. Default dive mode is changeable in **SETTING.**

!!!Do not rely on auto-on function. It's important to check all settings of the dive computer prior to descent in each dive.

2.4. Sunrise & Sunset time

sunrise | sunset

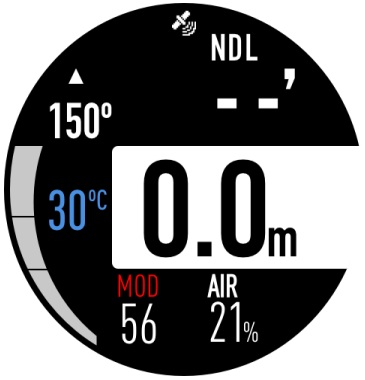
MISSION ONE shows the sunrise/ sunset time in the watch mode by pressing button C to scroll the button information after GPS signal is acquired.

※ **How to acquire the GPS signal:** **6.1. 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-right: MOD - (Maximum Operation Depth)
Bottom-right: 21% = AIR / 22-40% = **NITROX**

※Press button B can access the advanced setting.

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: Turning backlight On/Off.

※ Hold button D: Change backlight brightness level.

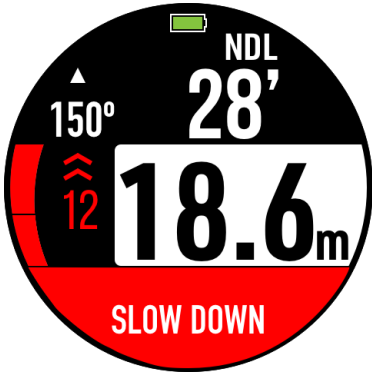
Mark Compass Heading

Hold button B: Enter mark compass heading function.

Press button B: Mark heading degree.
Press button B: Return.
Press button C: Unmark.

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

Fast Ascent



Alarm appears if ascend too fast for a period of time.

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

Time Alarm

Notify when exceed the dive time limit.

Depth Alarm

Notify when exceed the dive time limit.

Safety Stop

Safety stop appears when ascend to 6m(20ft) and the max depth of the dive is over 10m(33ft).

NDL indicator will be replaced by a 3mins countdown.

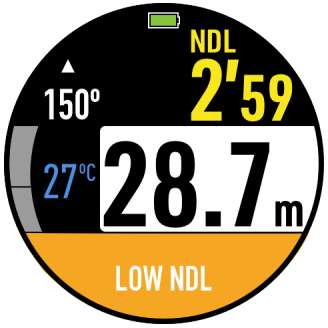
Safety Stop Pause

Ascend above 3m or descend below 7m during a safety stop. Safety pause will show and the countdown will be paused.

Safety Stop Clear

Notify when safety stop is completed.

NDL below 3mins



Notify every minute when NDL is shorter than 3 mins.

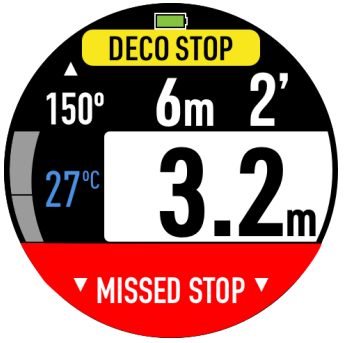
Decompression Stop Needed

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

The**"6m"** indicates the ceiling of stop depth.
The **"3' "** indicates how long the stop is. (in minute)

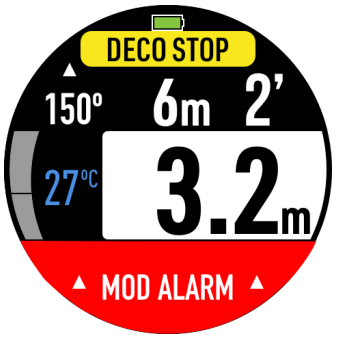
※ Please stay close to and do not exceed the ceiling depth until finish all deco stops.

Missed Stop



Alarm appears when ascend above the deco stop ceiling depth.

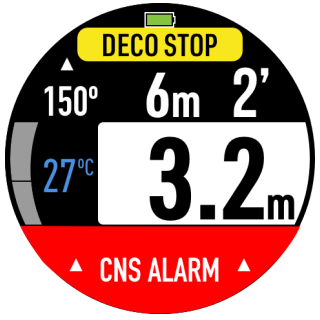
MOD



MOD is the maximum allowable depth of the current breathing gas as determined by
PPO2 limits.

※ Immediately ascend when seeing MOD alarm.

CNS Alarm



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

※ Immediately ascend when seeing CNS alarm.

Battery Low

Notify when battery power is below 20%.

3.2. NITROX

Press button B to enter **Advanced setting** in scuba mode. Then find the **Air/Nitrox (21-40%)**

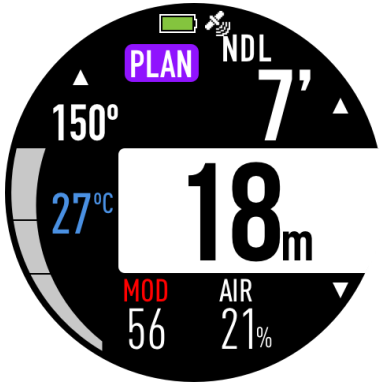
and **PPO2 (1.2-1.6)** setting.

!!! Always check the oxygen percentage, PPO2 and corresponded 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 button B and button C to change the plan depth to see the allowable NDL.

3.4. Conservatism

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

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

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

3.5. Advanced Setting

On scuba mode prior to a dive, press button B can enter advanced setting.

!!! 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

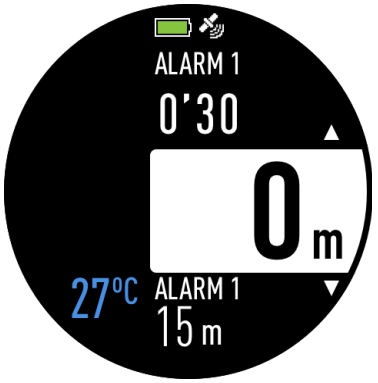
Water Type	Salt or freshwater. This setting affects depth readings because salt water is denser.
Start Depth	The depth of beginning a dive.
End Dive Delay	The dive ends when passed this time after surfaced.
Time Alarm	Notify when exceed the dive time limit.
Depth Alarm	Notify when exceed the depth limit.
Dive site	See 6.3 Dive Site

4. Freedive Mode

!!!Due to the residual nitrogen inbody after scuba/Gauge diving. It's recommended to take at least 12 hours surface rest before freediving.

4.1. Display Layout and Alarms

Predive



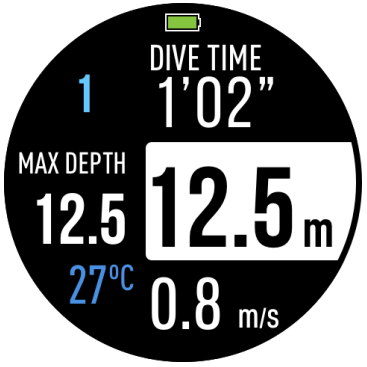
Press button B: View time alarm settings.

Press button C: View depth alarm settings.

※Press button B: Access advanced setting.

※Hold button C: Access stopwatch.

During the dive

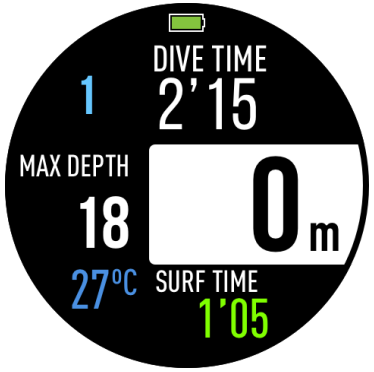


Upper-left: Dive count
Mid-left: Max depth
Bottom-left: Water temp
Upper-right: Dive time
Right: Current Depth
Bottom-right: Speed m(ft)/sec

※ 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: Turning backlight On/Off.

※ Hold Button : Change backlight brightness level.

※ Press button B: Access advanced setting.

※ Hold button C: Access stopwatch.

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

Notify when dive time is reached.
10 sets

Depth Alarm

Notify when depth is reached.
10 sets

Battery Low

Notify when battery power is below 20%.

4.2. Time Alarm

Press button B to access advanced setting 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 B.
- **Reset:** Press button B. when stopped.
- **Exit:** Hold button C for 2 seconds.

4.5. Advanced Setting

On Freedive mode prior to a dive, press button B can enter advanced setting.

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

Advanced setting:

Water Type	Salt or freshwater. This setting affects depth readings because salt water is denser.
Start Depth	The depth for beginning a dive.
End Dive Delay	The dive ends when passed this time after surfaced.
Time Alarm	See 4.2. Time Alarm
Depth Alarm	See 4.3. Depth Alarm
Dive site	See 6.3 Dive Site

5. Gauge Mode

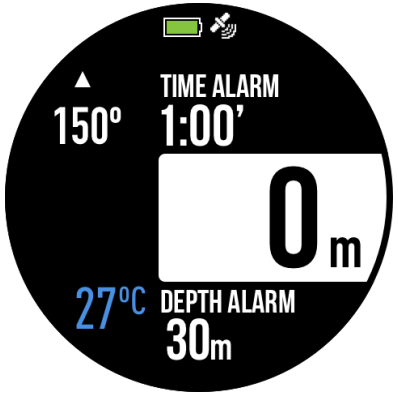
On gauge mode MISSION ONE functions as a depth and time indicator. Decompression calculation is disabled.

!!! 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 can access the advanced setting.

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: Turning backlight On/Off.

※ Hold button D: Change backlight brightness level.

※ Hold button B: Enter mark compass heading function.

Mark Compass Heading

Hold button B to enter mark compass heading function.

button B: Mark heading.

button B: Return.
button C: Unmark.

Time Alarm

Notify when exceed the dive time limit.

Depth Alarm

Notify when exceed the depth limit.

Battery Low

Notify when battery power is below 20%.

5.2. Bottom Timer

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

5.3. Advanced Setting

On gauge mode prior to a dive, press button B can enter advanced setting.

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

Advanced setting:

Water Type	Salt or freshwater. This setting affects depth readings because salt water is denser.
Start Depth	The depth for beginning a dive.
End Dive Delay	The dive ends when passed this time after surfaced.
Time Alarm	Notify when exceed the dive time limit.
Depth Alarm	Notify when exceed 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 the entry/exit coordinate and guide divesite in a wide and top-open environment.

!!! It is not 100% guaranteed to acquire the GPS signal due to source of interference from the environment.

(1) Stay at an open, roofless area.

(2) Make sure the watch faces to the sky.

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

P.S. It may take 5 minutes for the first time to acquire the GPS coordinates.

P.S. Using the "GPS"sync button in ATOMS App can sync the ephemeris to the MISSION ONE. Which could shorten the time of acquiring GPS.

(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

On dive mode MISSION ONE will attempt to acquire the GPS coordinates. If descend while the GPS coordinates acquired the entry GPS will be saved.

After surfaced, MISSION ONE will attempt to acquire the GPS coordinates. If the GPS coordinates acquired the exit GPS will be saved.

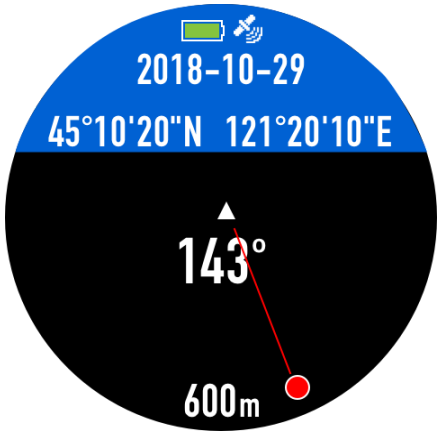
6.3. Dive Site Guide

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

Dive Site

Divesite
1) Make sure you're at an open environment , avoid rooftop, building, magnetic field.

2) Go to nearby site function in the advanced setting under each dive mode.



3) Wait for the GPS signal (it may take some time due to the signal quality)

4) Mission One will show 5 nearest sites.

ADD: Add a dive site

MY LIST: View and activate dive site guide

6.4. Compass Calibration

!!! Compass is magnetically oriented and will be disturbed if it is close to electric fields, magnets and metal objects.

!!! The electronic compass is small and easily interfered. Please avoid wearing another computer or compass next to MISSION ONE

Calibrate: MENU → COMPASS → Moving MISSION ONE in an "∞"pattern.

7. Warranty & Maintenance

7.1. Screen Guard

To apply a screen Guard:
1) Clean the glass of MISSION ONE.
2) Make sure the upper side of the screen guard is on the top, then apply onto MISSION ONE.
3) Remove the layer.

7.2. Watch Strap

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

7.3. Storage and Maintenance

After dive, rinse the MISSION ONE thoroughly with fresh water. Do not use high-pressure spray in case of damaging the button and sensor. If the equipment is covered with dirt, soak it in fresh water and do not use any solvent or detergent.

As same as other instruments. Do not throw, press, collide MISSION ONE. Do not expose it to sunlight or vehicles exposed under sunlight.

Please use the Screen Guard, which can be purchased from a qualified dealer when you need to replace it.

For storage, fully charge it then turn the MISSION ONE off. Store it in a box and avoid collision. Place it in a cool and ventilated place, avoid sunlight exposure.

7.4. Warranty

Limited Warranty

With exception to 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	Strengthen 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 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 (2pcs) 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.

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