

MISSION ONE

Make The Dive Simple



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1. Introduction

Mission One is a powerful and intelligent dive computer for scuba and free diving enthusiasts. Its advanced alarm system provides instant vibration and intuitive display notification. Equipped with GPS and digital compass, make users stay oriented underwater and meanwhile upload dive site's GPS location to ATMOS's dive log App above surface. Robust and sleek, it's the

most desirable dive companion to ensure professional and recreational divers the best diving experience.

MISSION ONE Feature

- ❖ 4 Modes: Air | Nitrox | Freedive | Gauge
- ❖ Water resistance: 100m (10ATM)
- ❖ Decompression algorithm: Bühlmann ZHL-16c
- ❖ High-res 1.2" color display (Sunlight-visible)
- ❖ Super intuitive user interface
- ❖ Easy to read screen and big layout display
- ❖ Multilanguage
- ❖ Constant backlight
- ❖ Vibration alarm
- ❖ Digital compass
- ❖ GPS dive site guide
- ❖ Graphical dive logs
- ❖ App digital logbook
- ❖ Smart notification (iOS & Android)
- ❖ Rechargeable: Up to 40 hours dive time (Backlight off)
- ❖ Firmware updateable
- ❖ 90g lightweight
- ❖ Silicone strap (24mm width compatible)

2. Basic Operation

2.1. Turing On/Off

Turing On: Hold Button D (bottom-left) for 3 sec.

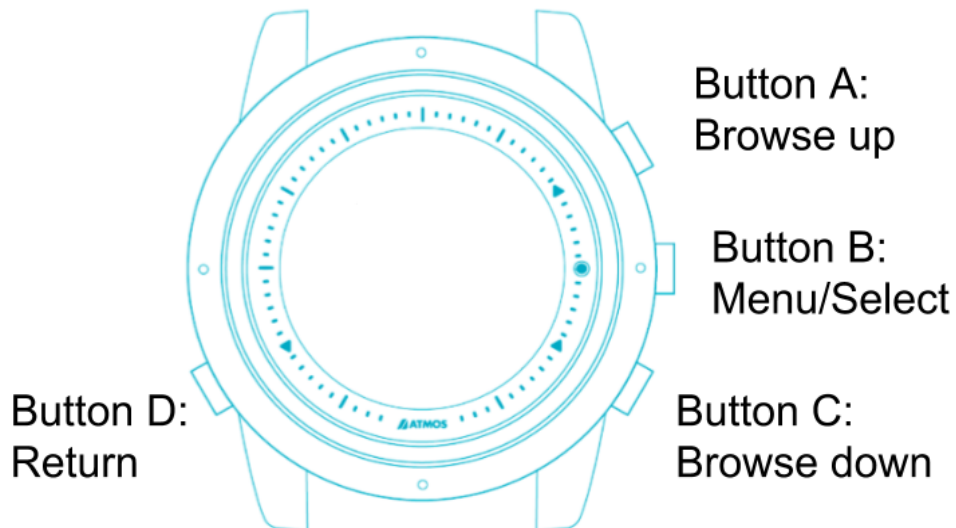
Turing Off: Hold Button D (bottom-left) for 3 sec on watch mode.

2.2. Charging

Please make sure the charging point are dry and clean.
It requires 2 hours to fully charge the MISSION ONE.

(Power input : DC 5V/2A)

2.3. Buttons



2.4. Diving Safety

- Please read this manual thoroughly and make sure you understand the operation, display, limitation of the MISSION ONE.
- All dive gears will fail. It is not whether it will fail 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 diver 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.

2.5. APP Pairing

Use ATMOS App to sync dive log, update firmware.

1. Download the 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 with the correct bluetooth number. (Bluetooth number “xxxx”= the 4 numbers of the serial number of your MISSION ONE)
5. **ATMOS App :** Enter the 6 Pin Codes shown on MISSION ONE. Connected!

2.6. Unpair

1. MISSION ONE SETTING ->CONNECT
->UNPAIR: YES
2. **ATMOS App:** Select your device, press upper-right button: Delete.
3. Your mobile phone: Bluetooth > delete the device

2.7. Smart Notification

Smart Notification allows MISSION ONE to show the message and phone call from the paired mobile phone.

Enable Smart Notification:

- **MISSION ONE:** SETTING -> CONNECT -> CONNECT APP : ON
- **NOTIFICATION:** ALL / CALL ONLY / OFF

2.8. Sync Log

Sync the dive logs from MISSION ONE to ATMOS App.

- **ATMOS App:** Press the sync button on the right side in the page of Your Device.

※Syncing log requires stable internet signal.

2.9. Firmware Update

ATMOS regularly release new Firmware including new feature, bug fix and improvement. Keep the Firmware of your MISSION ONE the latest.

※Updating Firmware requires stable internet signal.

1. **Via USB cable (SUGGESTED):**
 - a. Get Firmware Tool from <https://www.atmos.app/support/> (Win10/Mac)
 - b. Install, then run Firmware tool.
 - c. Connect MISSION ONE with the charging cable.
 - d. Press **Update Firmware** button.

2. Via ATMOS App (OTA):

- a. Select your device in the ATMOS APP.
- b. Press **Upgrade** button if there's a new version.

※Due to the signal of bluetooth may be interfered by other devices nearby. Please use the PC/Mac tool to update the firmware via USB cable if there is abnormal behavior on MISSION ONE after App update.

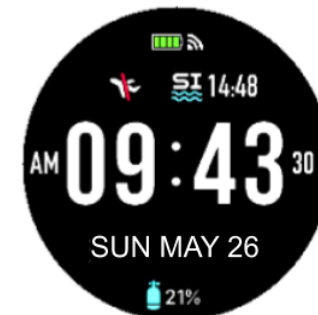
3. Watch Mode

3.1. No Fly Time and Surface Interval

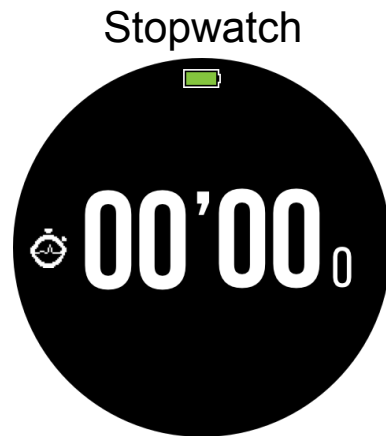
Due to residual nitrogen in body after diving. Please wait until the No Fly Time disappears then take flight.

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

※Upper-left: **No Fly Time** Icon. Counting down by 24hr from the moment exit water in last dive.



3.2. Stopwatch



Hold Button C (Bottom-right) for 2 seconds in watch mode

- ▶ **Start:** Press Button B.
- ▶ **Stop:** Press Button A
- ▶ **Reset:** Press Button B when stopped
- ▶ **Return:** Hold Button C for 2 seconds.

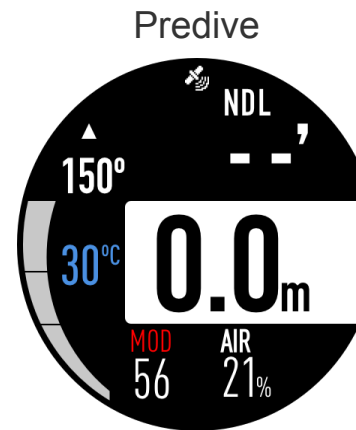
3.3. Enter Water Auto-on

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.

4. Scuba Mode

4.1. Screen Layout and Alerts



Upper-left: Compass degree

Left: Ascent rate bar

Mid-left: Water temp.

Upper-right: No decompression limit (**NDL**)

Right: Current depth

Bottom-right: **MOD** - (Maximum Operation Depth)

Bottom-right: 21% = AIR /

22-40% = **NITROX**

※Press Button B (Right) to access Advanced Setting.

※Hold Button B (Right) for 3 seconds to enter mark compass heading function.

During Dive



Upper-left: Compass degree

Left: Ascent rate bar **Red** = faster than 10m(33ft)/min.

Left: Water temperature

Upper-right: NDL (No Decompression Limit)

Mid: Current depth

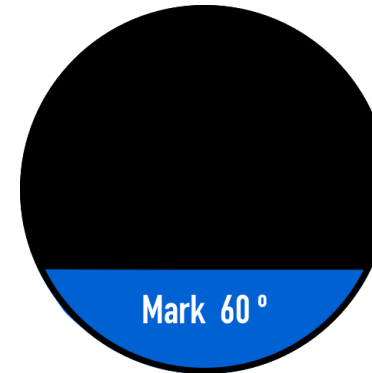
Bottom: Dive time

※Press Button C
(Bottom-Right): View current time, max depth, avg depth.

※Press Button D
(Bottom-Left): Turning backlight On/Off.

※Hold Button D (Bottom-Left): Change backlight brightness level.

Mark Compass Heading



Hold Button B (Right) to enter mark compass heading function.

Press Button A (Upper-right):

Mark heading degree

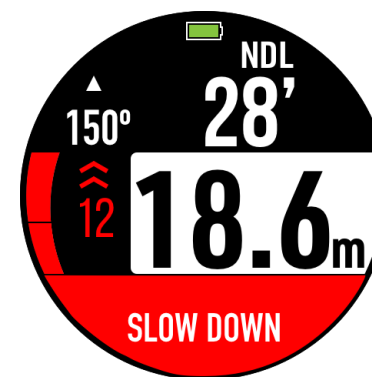
Press Button B (Right):

Return

Press Button C

(Bottom-right): Unmark

Fast Ascent



Alert user if ascend too fast.

(Ascending rate exceeds 10m(33ft)/min for 5 seconds)



Notify when dive time is reached.



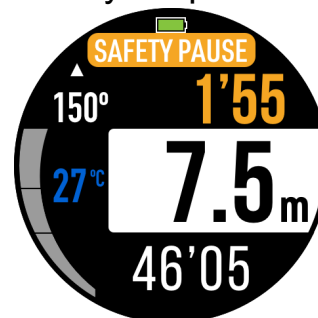
Notify when depth is reached.



Safety Stop will appear when ascend to 6m(20ft) if the max depth of the dive is over 10m(33ft).

NDL will be replaced by a 3mins countdown.

Safety Stop Pause



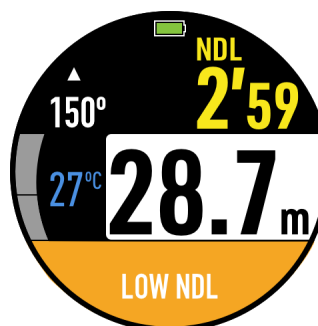
Ascend above 3m or descend below 7m during a safety stop. Safety Pause will show and the countdown will pause.

Safety Stop Clear



Notify when safety stop is completed.

NDL below 3mins



Notify every minute when NDL is below 3 mins.

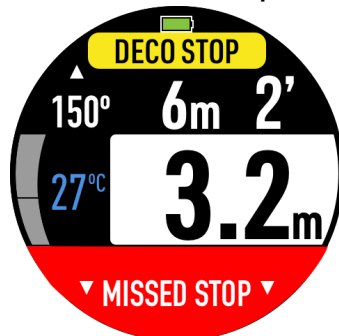
Decompression Stop Needed

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

The “6m” indicates the stop depth.
The “3' ” indicates how much time the stop is. (Minute)

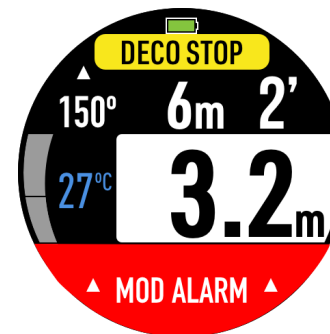
Please stay close to the stop depth until finish all deco stops.

Missed Stop



Alert when ascend above the deco stop depth.

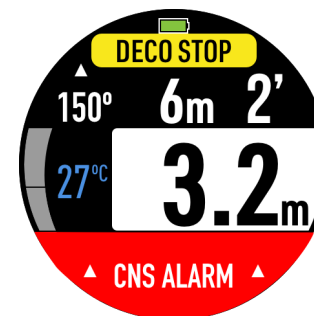
MOD



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

Immediately ascend when seeing MOD alarm.

CNS Alarm



Alert when central nervous system toxicity loading percentage greater than 85%.

Immediately ascend when seeing CNS alarm.

Battery Low



Notify when battery power is below 20%.

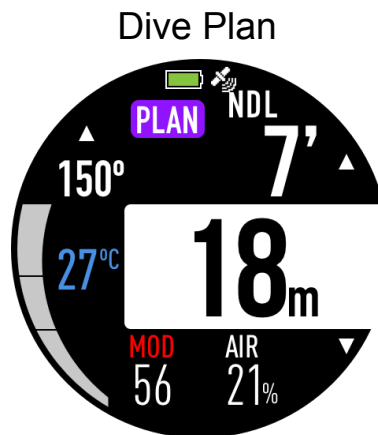
4.2. NITROX

Press Button B (Right) to enter **Advanced Setting** in scuba mode. Then find the **Air/Nitrox (21-40%) setting** and **PPO2 (1.2-1.6)** setting.

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

4.3. Dive Planner

Press Button B (Right) to enter Advanced Setting in scuba mode. Then find the **Dive Plan** setting.



Press Button A (Upper-Right) and Button C (Bottom-Right) to change the plan depth to see the allowable NDL at that moment.

4.4. Conservatism

Press Button B (Right) to enter **Advanced Setting** in scuba mode. Then find the **CONSERVATISM** setting.

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

Conservatism	<ul style="list-style-type: none">• HIGH (More conservative)• NORMAL (Default setting)• LOW (More NDL than the default)• CUSTOM (Adjust GF low and GF high) <p>Adjust GF (Gradient Factor) will affect decompression calculation. For more detail, please refer Erik Baker's (Clearing up the Confusion About Deep Stops)</p>
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4.5. Advanced Setting

Press Button B (Right) to enter the Advanced setting.

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

Advanced Setting:

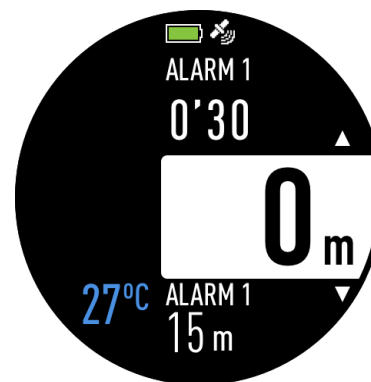
Conservatism	(See 4.4 conservatism)
Air/Nitrox	(See 4.2 Nitrox)
Dive Planner	(See 4.3 Dive Planner)
Water Type	Salt or freshwater. This setting affects depth readings because salt water is more dense.
Start Depth	The depth for beginning a dive.
End Dive Delay	The amount of time after crossing the end depth before a dive ends.
Time Alarm	Alert user when reach this dive time.
Depth Alarm	Alert user when reach this depth.
Dive site	(See 7.2 Dive Site)

5. Freedive Mode

!!!Due to the residual nitrogen inbody after scuba/Gauge diving. It's recommended to have at least 12 hours S.I. before doing freediving.

5.1. Display Layout and Alerts

Predive



Press Button A (Upper-Right) to view Time Alarm settings.
Press Button C (Bottom-Right) to view Depth Alarm settings.

※Press Button B (Right) to access Advanced setting
※Hold Button C (Bottom-Right) to access stopwatch

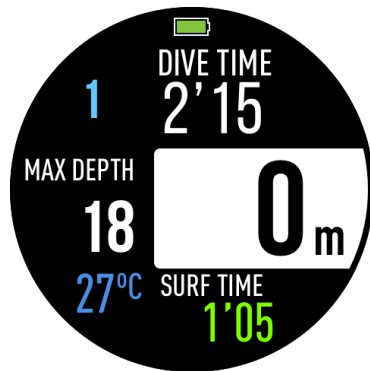
During dive



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 (Bottom-Left): Turning backlight On/Off.
※Hold Button D (Bottom-left): Change backlight brightness.

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 A (Upper-right):
view current time.

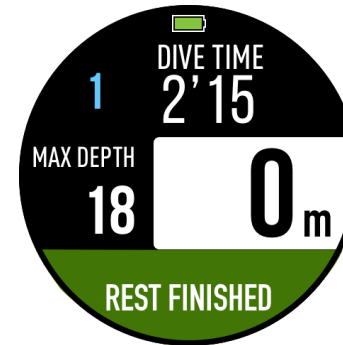
※Press Button D (Bottom-left):
Turning backlight On/Off.

※Hold Button D (Bottom-left):
Change backlight brightness.

※Press Button B (Right)to
access Advanced setting.

※Hold Button C (Bottom-right)
to access stopwatch.

Rest Finished



Dive Depth 1m-30m (3ft - 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 depth/5 (min) of the dive time 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%.

5.2. Time Alarm

Press Button B (Right) to access Advanced setting in Freedive mode to set Time Alarms.

5.3. Depth Alarm

Press Button B (Right) to access Advanced setting in Freedive mode to set Depth Alarms.

5.4. Stopwatch



Stopwatch

Hold Button C (Bottom-right) for 2 seconds in freedive mode

- **Start:** press Button B.
- **Stop:** press Button A
- **Reset:** press Button B when stopped
- **Return:** hold Button C

5.5. Advanced Setting

Press Button B (Right) to 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 more dense.
Start Depth	The depth for beginning a dive.
End Dive Delay	The amount of time after crossing the end depth before a dive ends.
Time Alarm	(See 5.2 Time Alarm)
Depth Alarm	(See 5.3 Depth Alarm)
Dive site	(See 7.2 Dive Site)

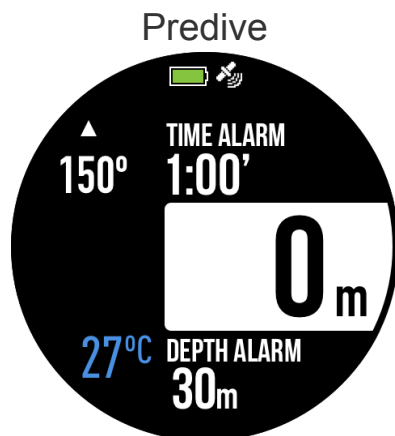
6. Gauge Mode

Gauge Mode turns the MISSION ONE into a depth and time display. Decompression calculation will not be performed.

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

!!! Unlock: SETTING > SYSTEM > RESET NITROGEN

6.1. Display Layout and Alerts



Upper-left: Compass Degree
Bottom-left: Water temp
Upper-right: Time Alarm
Right: Depth
Bottom-right: Depth Alarm

※Press Button B (Right) to access Advanced Setting

During Dive



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

※Press Button C (Bottom-right) to reset the Bottom timer

※Press Button D (Bottom-left): Turning backlight On/Off

※Hold Button D (Bottom-left): Change backlight brightness

※Hold Button B (Right) to enter mark compass heading function

Mark Compass Heading

Hold Button B (Right) to enter mark compass heading function.



Button A (Upper-right):
Mark heading degree
Button B (Right): Return
Button C (Bottom-right):
Unmark



Time Alarm
Notify when dive time is reached.



Depth Alarm
Notify when depth is reached.



Battery Low
Notify when battery power is below 20%.

6.2. Bottom Timer

During diving, press Button C (bottom-right) to reset stopwatch.

6.3. Advanced Setting

Pressing Button B (Right) to enter advanced setting in Gauge mode prior to descent.

!!! 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 more dense.
Start Depth	The depth for beginning a dive.
End Dive Delay	The amount of time after crossing the end depth before a dive ends.
Time Alarm	Alert user when reach this dive time.
Depth Alarm	Alert user when reach this depth.
Dive site	(See 7.2 Dive Site)

7. GPS and E-Compass

The GPS function is designed to mark the entry/exit coordinate and guide divesite where is in a wide and top-open area. It may be hard to use the GPS function in urban area due to too many interferences.

7.1 Mark Entry/Exit GPS Coordinate

Entry Point

MISSION ONE will mark the GPS coordinate if Wait until the satellite icon stops blinking before dive.

Exit Point

MISSION ONE will mark the GPS coordinate if wait until the satellite icon stops blinking after surfaced from a dive.

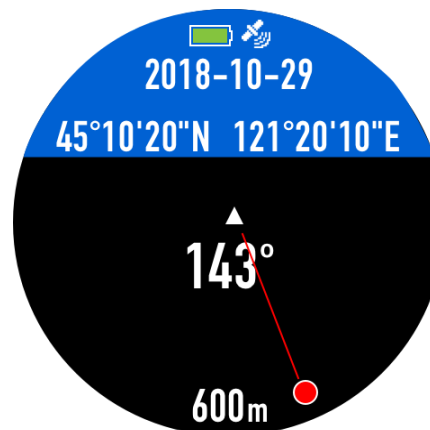
7.2 Dive Site Guide

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

Dive Site

Divesite

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



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

3) Wait for the GPS signal (it may take sometime due to the signal condition)

4) Mission One will show 5 nearest sites.

ADD: Add a dive site

MY LIST: View and activate dive site guide

7.3 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 MISSION ONE next to another computer or compass.

Calibrate: COMPASS > Moving MISSION ONE in a “∞” pattern.

8. Warranty & Maintenance

8.1 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.

8.2 Watch Strap

MISSION ONE is compatible with 24mm width strap.
Socket screw: 1.4mm

8.3 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 the box and avoid collision. Place it in a cool and ventilated place where is no sunlight exposure.

8.4. 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 for a period of two years from the date of purchase (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. As the product may get damaged or lost in shipping, it is recommended that the product be packaged securely and sent by insured parcel post, return receipt requested.

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

www.atmos.app

8.5. 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, transfective, 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: 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
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 (Mobile Phone)
Smart Notification	✓
Smartphone compatibility	iPhone®, Android™
Compatible with ATMOS™ Mobile	✓

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)
Gas max PO2	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 battery MOD CNS
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Warranty

Warranty period	2 years
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What's in the box?

What's in the box	ATMOS MISSION ONE with Silicone strap Charging Cable Scratch Guard (2pcs) Quick Start Guide
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➤ www.atmos.app

➤ info@atmos.app