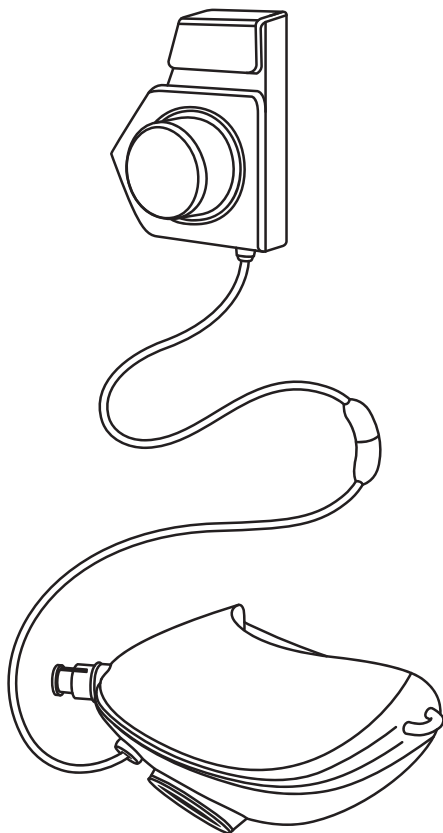


Mini + Mouth Mask Operating Manual



DIVINTOK

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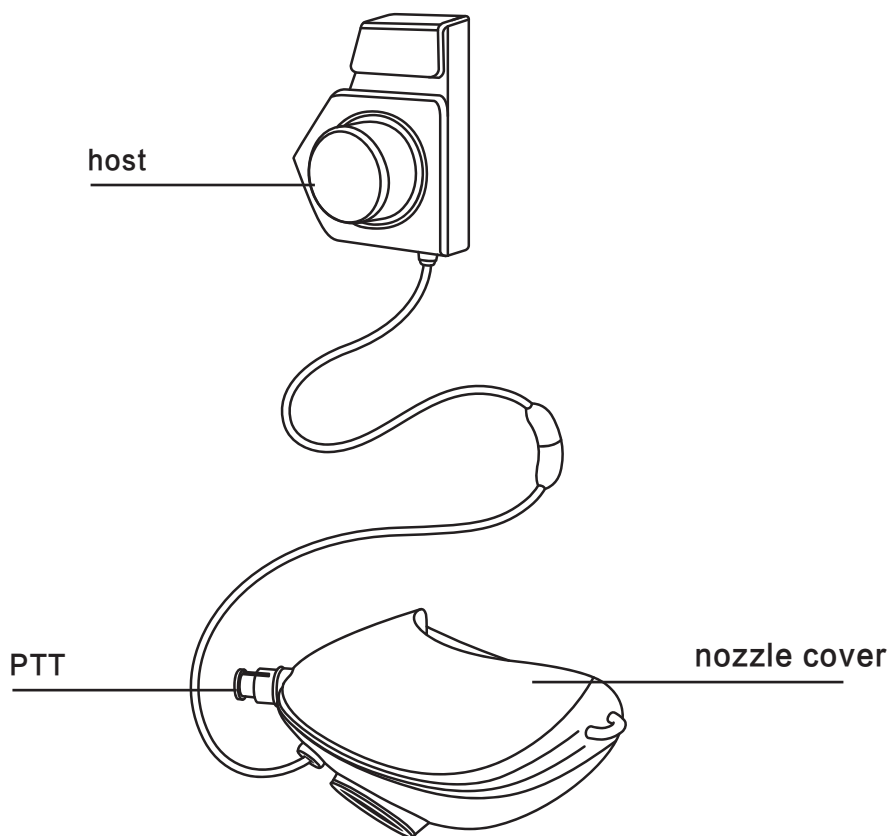
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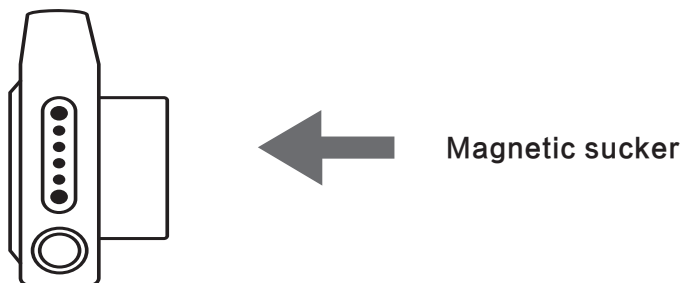


Introduction of Product Composition **DIVINTOK**

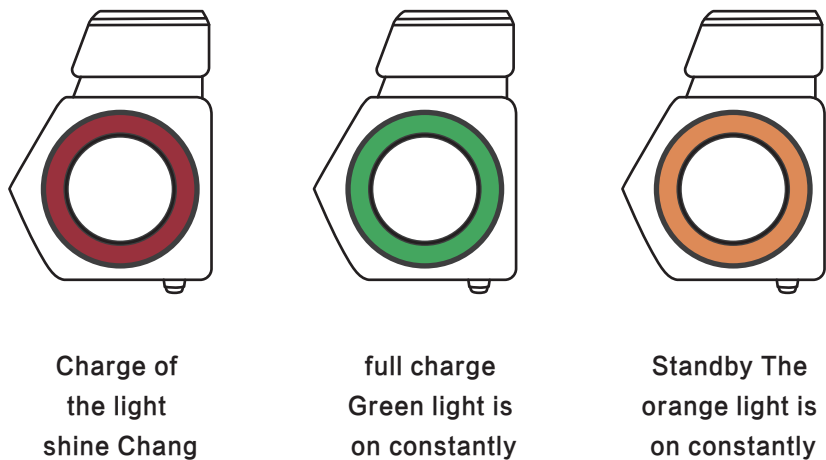
- Wiring block diagram, divided into two parts: main engine and mouth mask (marked with sensor position) (marked with connector at connection)



● Charger, and charging schematic diagram



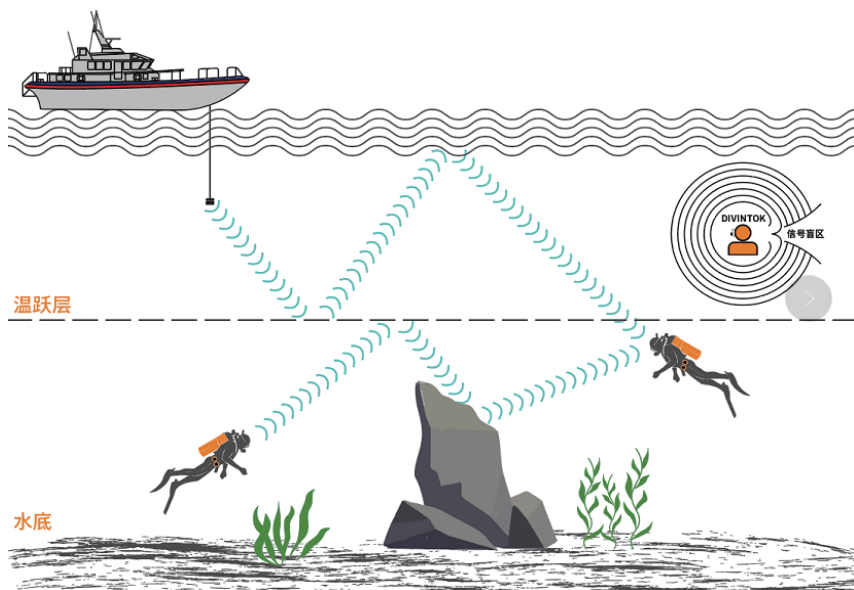
● Charger, and charging schematic diagram



Introduction of Product Function Realization

DIVINTOK

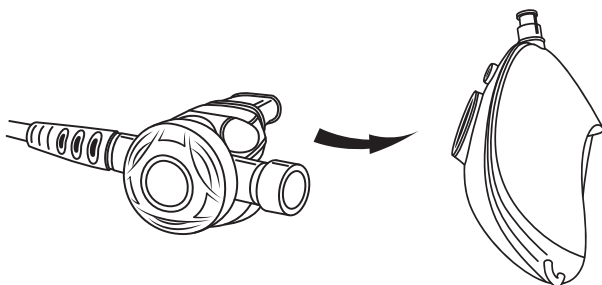
● **DIVINTOK-Mini** is an underwater acoustic communicator developed and produced by **DIVINTOK TECHNOLOGY PTE.LTD.**, which uses water as a medium for voice communication. This product includes deck unit and diver unit, which is suitable for real-time voice communication between divers or between divers and deck. By using advanced digital signal processing technology, this product has reliable speech transmission performance and high-quality speech intelligibility. It contains a high-capacity battery, which ensures that this product has a long enough battery life. By adopting the self-developed mouth-opening breathing mask, the diver can wear a half mask and open his mouth to speak.



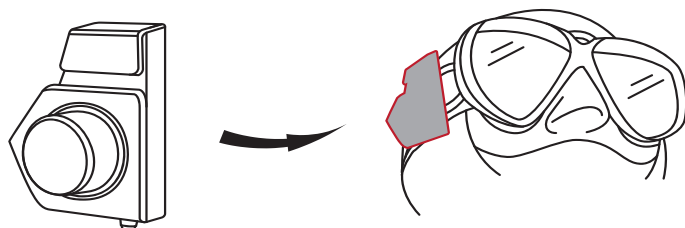
Parameter Information	
Range Transmission distance	75m (under good hydrological conditions)
Depth Maximum working depth	50m
Size	122/91/71mm
Weight	160g
Directivity	Horizontal omnidirectional
Consumption	Standby: 0.7W, Max: 2W
Battery Life	4 hours

1

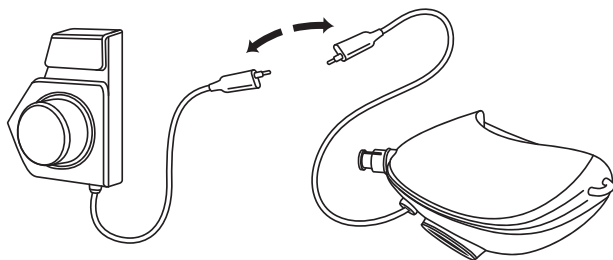
**Connect the mouth mask
with the second stage**

**2**

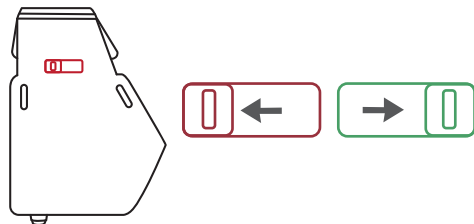
Fixed main engine position



3

**Connect the mouth mask
with the main engine**

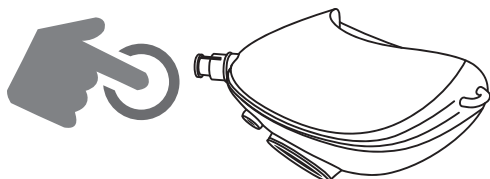
4

The main engine switch

The main engine switch (lights on and off) sets the switch to the "right". The white indicator lights up. After about 5 seconds, the indicator turns into one of green, orange and red, and the earphone broadcasts "Hello, divintok!", full battery/medium battery/low battery".

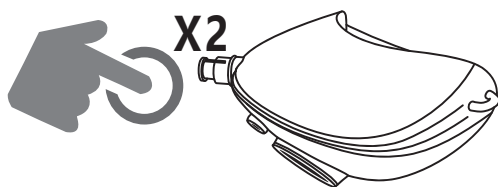
Green indicator indicates 80%–100% of current power remaining, orange indicator indicates 20%–80% of current power remaining, and red indicator indicates that current power is less than 20%. When the PTT key is not triggered for more than 5 minutes, the indicator enters the white breathing light mode.

5

Press the PTT key

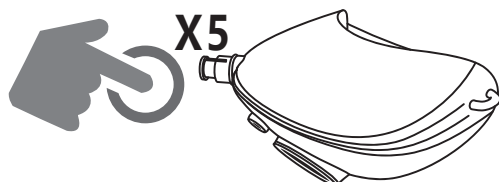
Press the PTT key. When the earphone has a "doh" prompt tone, the indicator flashes in white. The main engine enters the transmission mode and can make a call. Release the PTT key, and the earphone has a "doh" prompt tone again. The indicator resumes one of the three colors of green, orange and red, and the main engine enters the receiving mode.

6

Double-click the PTT key

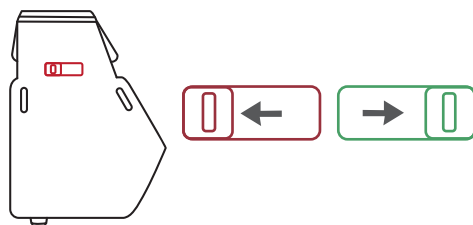
Double-click the PTT key to adjust the volume (press frequency 2 times/sec, press twice continuously to trigger). Double-click the PTT key (2 times/sec), and enter the high volume mode when the headphone prompts "high volume, full battery/medium battery/low battery". Double-click the PTT key again (2 times/sec), and enter the low volume mode when the headphone prompts "low volume, full battery/medium battery". If the main engine does not respond by double-clicking the PTT key, press and hold the PTT key for more than 3S and try double-clicking again, or adjust the frequency.

7

Press the PTT key quickly

Press the PTT key quickly for more than 5 times, and when the headphone broadcasts "SOS", the main engine enters SOS mode; After the main engine enters SOS mode, the status indicator turns red and blue to flash alternately, and the main engine is restarted to resume normal mode.

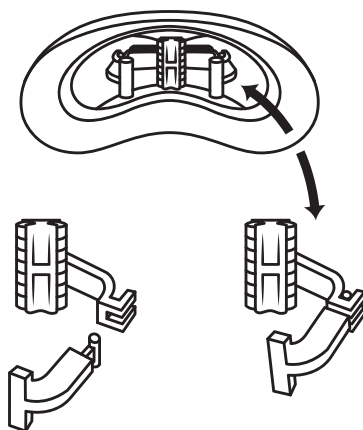
8

Turn on the main engine

Turn on the main engine and wait for the main engine to turn on. After the main engine is connected to the computer through USB cable, a removable disk will pop up. The total recall file is stored in the VOICE folder of the removable disk, and the required recording file can be copied. The file name of the recording file is named after the current main engine time when the file was created. For example, the file Dtok-220725-135422.wav was created at 13:54:22 on July 25th

9

Gear hook replacement



- In view of the particularity of underwater acoustic equipment, any information transmission can only be carried out after the sensor is immersed in water. Sensor emission in the air is likely to cause irreparable damage to equipment.
- Whether the equipment is used or not, it needs to be properly kept to avoid collision of sensors or damage to the equipment.
- In the process of using equipment, attention should be paid to the surrounding obstructions, such as rocks, sunken ships and other objects, which will affect the transmission of underwater acoustic signals.
- Make sure there is no gravel on the pins before unplugging the connector, so as not to shorten the life of the connector.
- After connecting the mouth mask to the regulator, the connection must be fastened with a tie band, and it must be worn in air and shallow water for trial use to ensure stability.
- Please slow down the speed of underwater speech and try to use short sentences to ensure that you maintain good buoyancy control.
- If there is a small amount of water entering the mouth mask during diving, please don't panic. The water can be easily discharged by blowing drainage method. If there is continuous water entering after drainage, please replace the spare second stage or surface for inspection. Usually this situation is caused by the interference between the mouth mask and the skirt of the mirror.
- When not using the product, please pull out the connector in time, cover the dust cover, rinse it with fresh water, and put the product in a safe place to dry to avoid bumping.
- If you don't hear the voice information of your potential partner occasionally in the process of using this product, you can solve it by the following methods: 1. Speak slowly and say it again; 2. Adjust one's attitude and orientation to reduce the interference and occlusion in underwater acoustic channel.

- Make sure that one of your two regulators is a normal inlet bite. In case of mouth mask failure, the second stage with a normal bite can be replaced to ensure your safety. Although there is only a very low probability of mouth mask failure (cut by rocks, broken internal connecting rod, etc.), it is strictly forbidden to have a mouth mask on both regulators.
- As the most intelligible underwater communication product in the industry, users need to practice more to ensure a good use experience. Tests have proved that most divers can accurately identify the content when using this product for the first time. If you encounter difficulties in using it, more practice can improve the intelligibility.

Cleaning and maintenance

After use, please wash the main engine with clean fresh water in time, and ensure that the following procedures are completed:

- Please ensure that the magnetic tip is completely washed with fresh water to avoid corrosion of the probe
- Please ensure that the two spillways on both sides of the switch have been flushed with clean fresh water, and make sure that there is no sediment residue in the spillway
- Please make sure that the 2-core plug-in connected to the duckbill has been washed with clean fresh water, and make sure that there is no sediment residue in the pinhole

Please dry the main engine with a dry soft towel after the above fresh water flushing

After use, please rinse the duckbill with clean fresh water in time, and ensure that the following procedures are completed:

- Please make sure that the inside of the duckbill has been washed with clean fresh water and that there is no sediment residue inside
- Please ensure that the 2-core plug-in connected to the main engine has been washed with clean fresh water, and make sure that there is no sediment residue in the pinhole
- Please dry the duckbill with a dry soft towel after the above fresh water rinsing

Storage

- Please pay attention to the protection of the sensor during storage, and do not bump or weigh the sensor
- When stored for more than 3 months, it is necessary to fully charge the machine according to the instructions for charging method
- Please store this product at 0°C ~ 45°C
- The storage environment must be ventilated, clean and free of corrosive gases and liquids



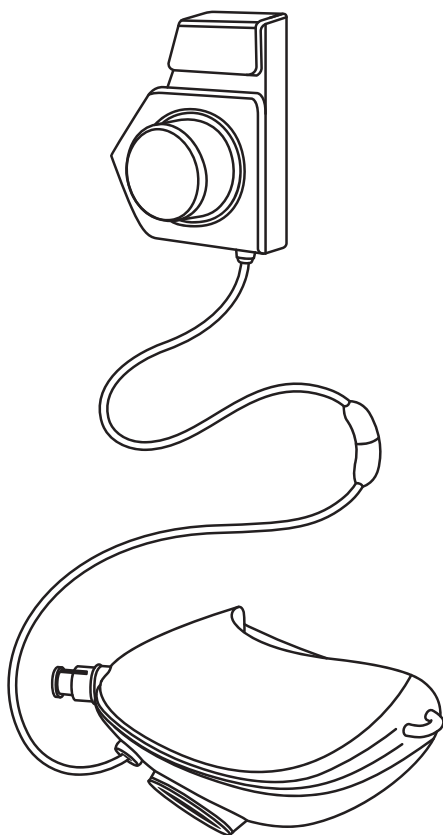
DIVINTOK

address: International plaza, 10 anson road, Singapore(079903)

Postal code:

Telephone:

Mini+嘴罩 说明书



DIVINTOK

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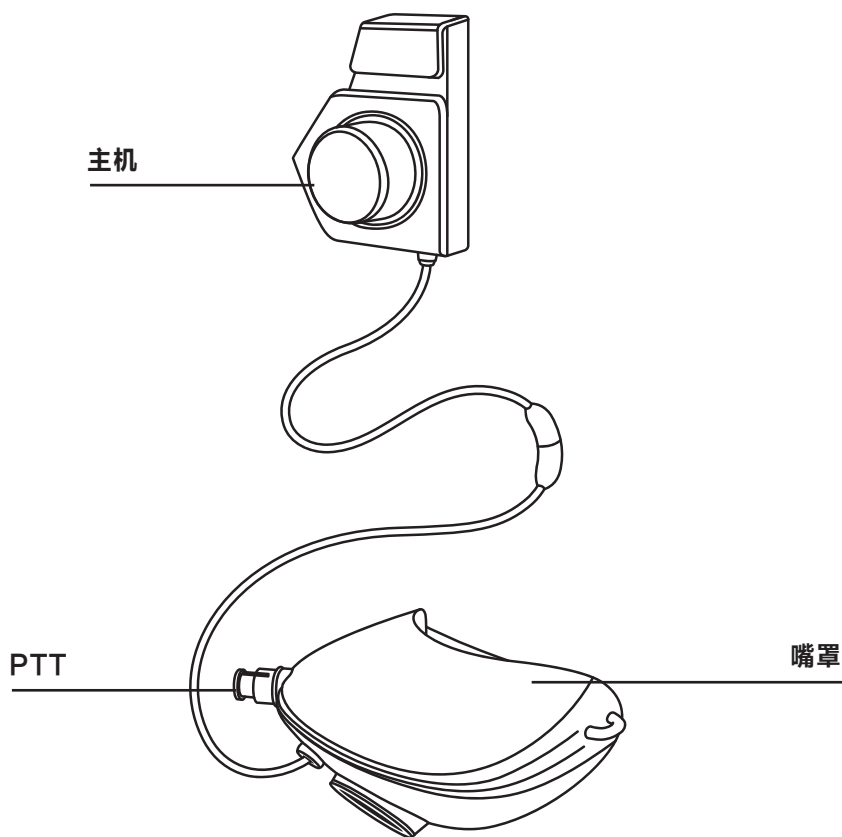
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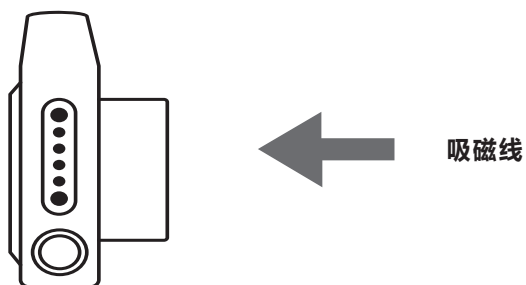
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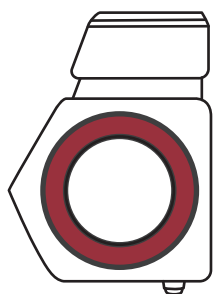
- 配线框图，分为主机、嘴罩两个部分



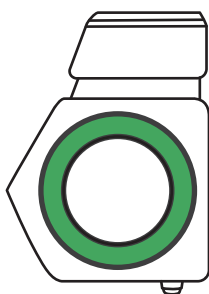
● 充电器、充电示意图



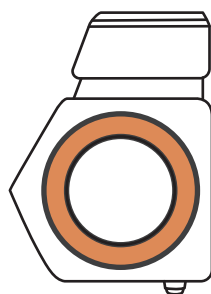
● 冲充电时，装饰灯情况



充电中红灯常亮



充满电绿灯常亮

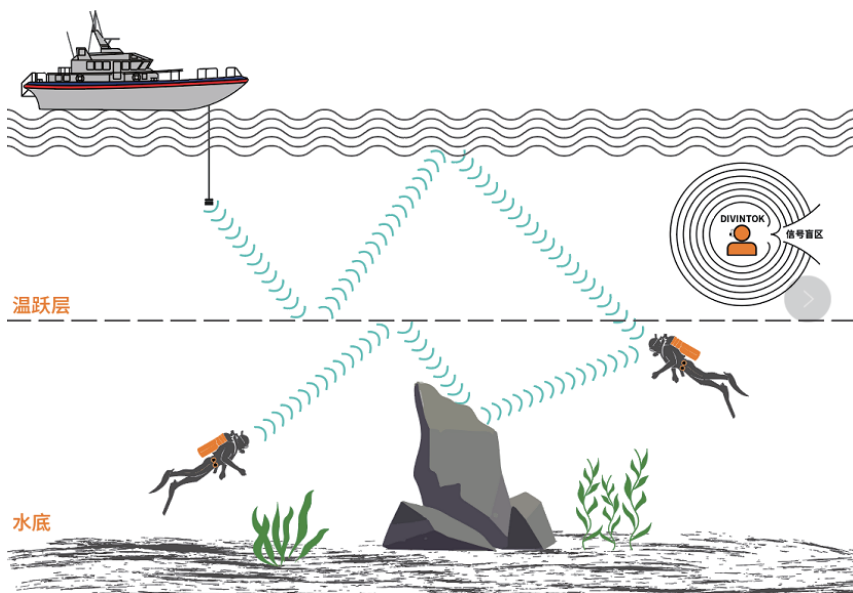


待机状态橙灯常亮

● **DIVINTOK-Mini**是**DIVINTOK TECHNOLOGY PTE.LTD.**研制生产的一款以水作为媒介进行语音通信的水声通信机。本产品包含甲板单元和潜水员单元，适用于潜水员之间或者潜水员与甲板之间进行实时语音通信。

通过采用先进的数字信号处理技术，本产品具有可靠的语音传输性能和高质量的语音可懂度。

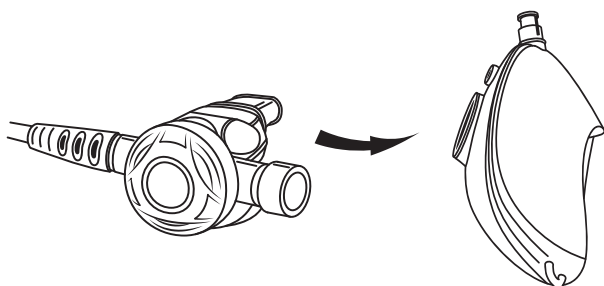
本产品内含高容量的电池，保证本产品具有足够长的续航时间。通过采用自主研发的可张口呼吸嘴罩，实现潜水员穿戴半面罩张嘴说话的功能。



参数信息	
传输距离	75m（良好水文条件下）
主机最大工作深度	50m
尺寸	122/91/71mm
重量	160g
指向性	水平全向
功耗	待机：0.7W， 最大:2W
续航时间	4小时

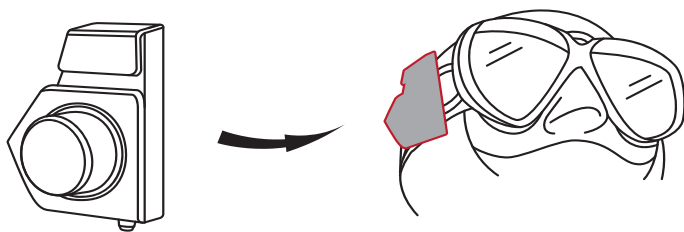
1

连接嘴罩与二级头



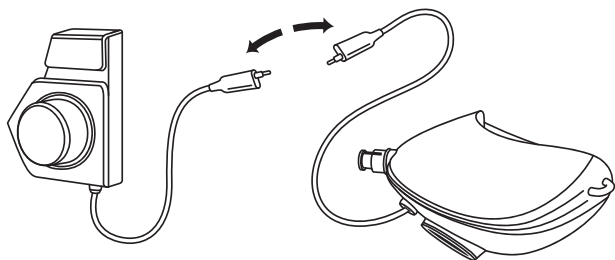
2

固定主机位置



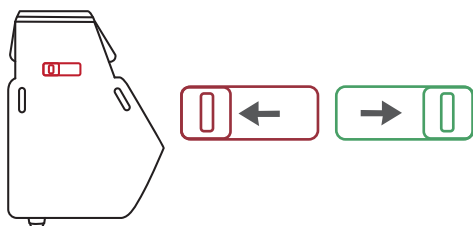
3

连接鸭嘴与主机



4

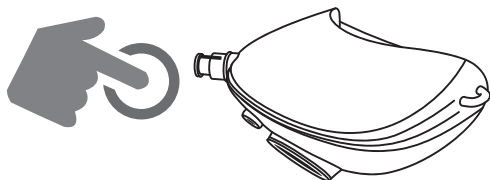
主机开关



主机开关（灯亮开，灯灭关）将开关拨至“右侧”的位置，此时主机白色指示灯亮起，大约5秒钟后指示灯颜色变成绿、橙、红中的一种，耳机播报“开机（hello,divintok!），电量充足(full battery)/电量中等 (medium battery)/电量低(low battery)”时开机成功。

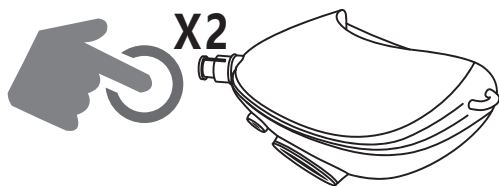
绿色指示灯指示当前电量剩余80% - 100%，橙色指示灯指示当前电量剩余20% - 80%，红色指示灯指示当前电量小于20%。当超过5分钟没有触发PTT按钮时指示灯进入白色呼吸灯模式。

5 按下PTT按钮



按下PTT按钮，当耳机有“咚”的提示音，指示灯白色闪烁，此时主机进入发射模式，可进行通话，松开PTT按钮，耳机再次有“咚”的提示音，指示灯恢复绿、橙、红三种颜色中的一种，主机进入接收模式。

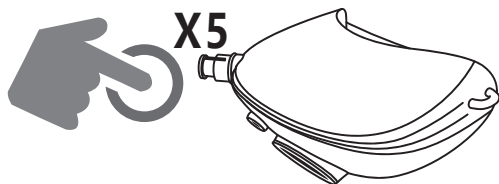
6 按下PTT按钮



双击PTT按钮，可调整音量（按压频率2次/秒，连续按压两次触发）双击PTT按钮（2次/秒），耳机提示“高音量（high volume），电量充足(full battery)/电量中等(media battery)/电量低(low battery)”时进入高音量模式，再次双击PTT按钮（2次/秒），耳机提示“低音量（low volume），电量充足(full battery)/电量中等(media battery)/电量低(low battery)”时进入低音量模式。如果双击PTT按钮主机没有反应，长按PTT按钮3S以上再次尝试双击，或者调整双击PTT按钮的频率。

7

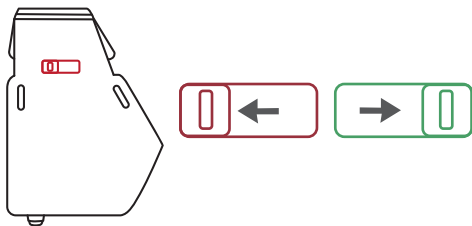
快速按压PTT按钮



快速按压PTT按钮5次以上，当耳机播报“SOS”时主机进入SOS模式；主机进入SOS模式后，状态指示灯变成红蓝交替闪烁，重启主机恢复正常模式。

8

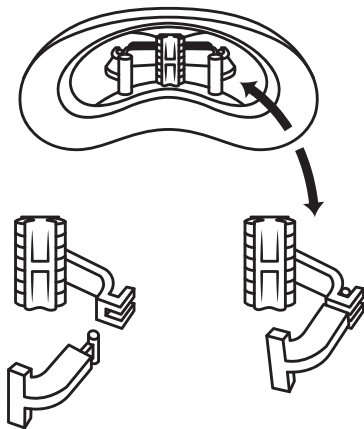
将主机开机



将主机开机，等待主机开机完成，主机通过USB线连接电脑后将弹出一个可移动磁盘，通话录音文件存储在可移动磁盘VOICE文件夹下，拷贝需要的录音文件即可。录音文件的文件名以创建文件的当前主机时间进行命名，例如，文件Dtok-220725-135422.wav的创建时间为2022年7月25日13时54分22秒。

9

齿勾更换



1. 在使用DIVINTOK产品时，潜水员必须完全理解用户手册
2. DIVINTOK为潜水员提供了水下通讯的功能，当它不能改变或消除潜水时所存在的危险
3. 技术指标均基于我们的测试，但不能保证其准确性和完整性
4. 使用产品前，用户应确认产品是否适合预期用途，并承担与此相关的所有风险和责任
5. 对于应使用不当导致的任何后果，卖方和制造商均不承担任何责任

- 鉴于水声设备的特殊性，任何信息发射都须在传感器浸入水中后方能进行。空气中进行传感器发射很有可能造成设备不可修复的损坏。
- 无论是否使用设备，均需要妥善保管，避免传感器的磕碰否则导致设备损坏。
- 在使用设备的过程中应注意周围的遮挡物，如礁石、沉船等物体会影响水声信号的传输。
- 拔插连接件之前请确保没有沙砾在针脚上，以免缩短接插件寿命。
- 连接嘴罩到调节器后，必须使用扎带进行接口处的紧固，并需要在空气中和浅水区域佩戴试用以确保稳固。
- 水下说话语速请放慢并尽量采用短句形式，确保自己保持良好的浮力控制。
- 如果在潜水过程中嘴罩有少量进水，请勿恐慌，使用吹气排水法可以轻松排出进水，如果排水后不断进水，请更换备用二级头或者浮出水面进行检查，通常这种情况是由于嘴罩和面镜裙边的干涉引起的。
- 在不使用产品时请及时拔出接插件，并盖好防尘盖后使用淡水冲洗，将本产品放置于安全位置晾干，避免磕碰。
- 如果在使用本产品过程中偶尔没有听清潜伴的语音信息，可通过以下几个方法得到解决：1、示意对方放慢语速再说一次；2、调整自己的姿态与朝向，以减少水声信道中的干扰和遮挡。
- 请确保您的两个调节器中有一个是普通的入口式咬嘴，在出现嘴罩故障的情况下可以更换带有普通咬嘴的二级头，以确保您的安全，虽然仅存在极低概率导致嘴罩故障（被礁石划破、内部连接杆断裂等情况），但严禁两个调节器均配备嘴罩。
- 作为目前业内可懂度最高的水下通信产品，用户需要多加练习以确保良好的使用体验。经试验证明，绝大部分的潜水员首次使用本产品下水即可准确识别内容，若你在使用过程中遇到困难，多加练习可提高可懂度。

使用完后请及时用干净的淡水冲洗主机，并确保完成如下流程：

- 请确保磁吸头处被淡水完全冲洗，以免探针锈蚀。
- 请确保开关两侧的两个的溢水口已用干净的淡水冲洗完毕，并确认溢水口内已无泥沙残留。
- 请确保与鸭嘴连接的2芯插件已用干净的淡水冲洗完毕，并确认针孔内无泥沙残留
- 完成上述淡水冲洗后请用干燥的软毛巾擦干主机。
- 请确保鸭嘴内部已被干净的淡水冲洗完毕，并确认内部无泥沙残留
- 请确保与主机连接的2芯插件已用干净的淡水冲洗完毕，并确认针孔内无泥沙残留。
- 完成上述淡水冲洗后请用干燥的软毛巾擦干鸭嘴。

收纳与存放

- 存储时请注意传感器的防护，不要磕碰、重压传感器。
- 当存储超过3个月时，需要按照本说明书对充电方法的说明将机器充满电。
- 请在0℃~45℃的环境中存放本产品。
- 存放环境必须通风、清洁，无腐蚀性气体、液体。



DIVINTOK

地址：新加坡(079903)安顺路10号国际广场11号-20号

邮编：

电话：



DIVINTOK