


# 水冷散热器 简易用户手册

使用水冷散热器前请仔细阅读本使用说明和安全须知，  
请妥善保管本使用说明。

1  为了保护您的权益，在您使用前，请确认以下配件的完备性：

1. 水冷机×1
2. 磁性连接器水管×1
3. 水冷机电源输出线×1
4. 泄水阀×1
5. 内6角扳手×1 (拆除侧面机壳使用)
6. O-Ring×6



注意：本产品由电源适配器供电 output rated 19.5Vdc, 16.9A 或 20Vdc, 14A.



注意：产品出厂前进行100%的试水检验，确保回路滴水不漏。如收到水冷机里面有残留的水，属于正常现象。



注意：未经设备受让人明确许可的任何更改或修改都可能使用户丧失操作设备的权限。



注意：使用未经授权使用的电缆扩展将使保修保护失效。

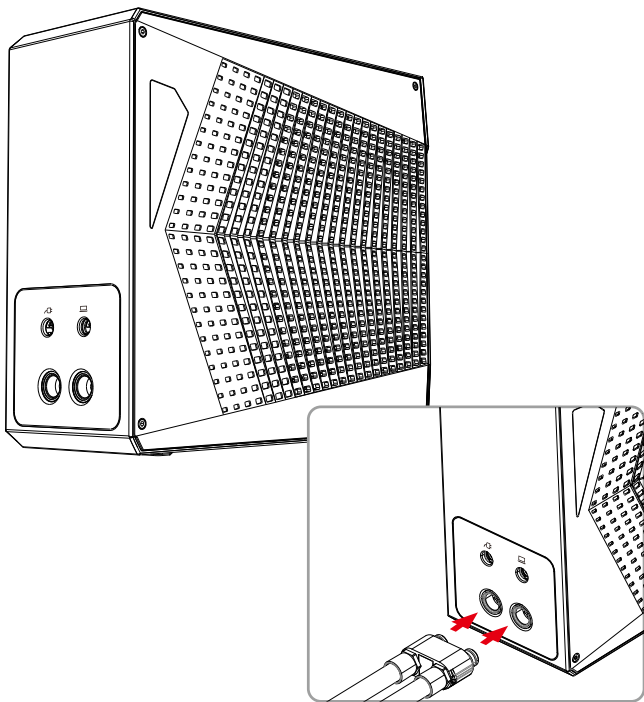


该设备可以在最高环境温度下运行。35°C (95°F)。  
请勿使其温度低于5°C (41°F) 或高于35°C (95°F)。



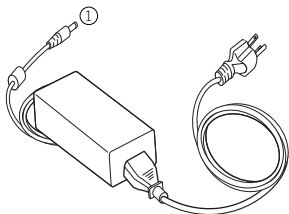
## 2 准备你的水冷机：

1. 通读用户手册。
2. 检查水管两头是否连接牢固。
3. 两根水管黑色接口通过磁鐵吸附原理方式与水冷机出水孔连接，尽量保持连接好以后两条水管不出现扭曲。
4. 将连接好的水冷设备放置于水平桌面。

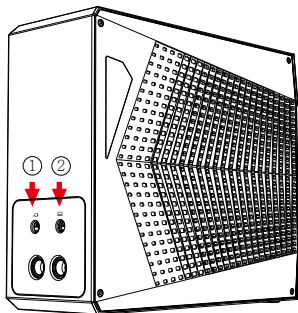


### 3 水冷机连接电脑：

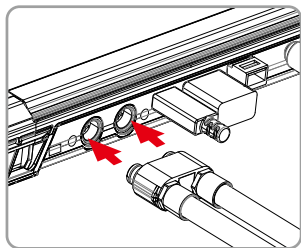
1. 将电脑放置于桌面，依照机型,部分机种需打开电脑水冷接口止水软塞。
2. 水管金属接口以磁动吸附方式连接至电脑，听到轻微的“咔哒”声表明已正确连接  
(注：水管保持自然弯曲状态，切勿绷直)。
3. 将电源适配器插入水冷机DC接口 (注：切勿先通电)。
4. 水冷机电源输出线连接至水冷机DC接口与电脑DC接口 (注：切勿先通电)。



DC INPUT: 280 Watts (20V/14A)  
330 Watts (19.5V/16.9A)

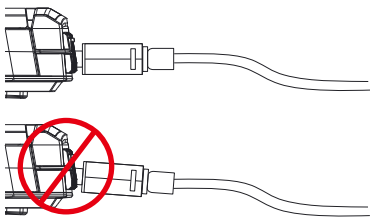


连接笔记型电脑DC接口

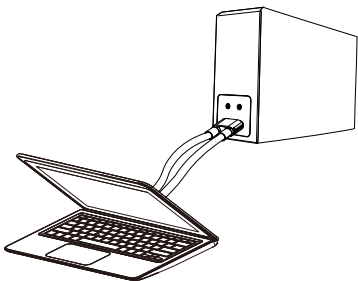


以“平行”推入方式接上(详解)

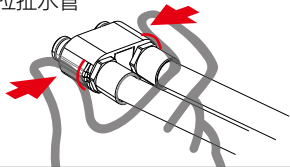
详解: 水管接头需完全平行, 请确实稳固插入笔记型电脑或是水冷机的插孔内。



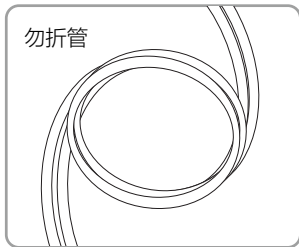
注意: 使用水管有以下注意事项。



如欲移除水管请手持接头平行退出  
勿拉扯水管



勿折管

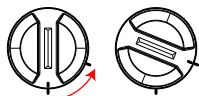
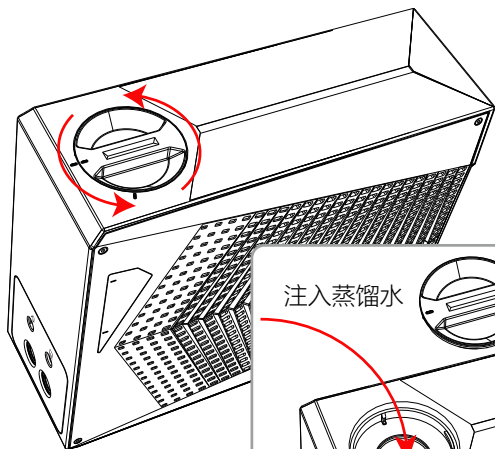


## 4 水冷机注水：

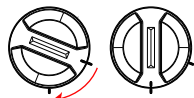
1. 旋转打开注水孔塞，向水冷机注水，建议使用蒸馏水。
2. 注水完毕后启动注水模式，长按水冷机电源键4~5秒，电源灯呈现紫灯闪烁，开始进入注水模式，结束后灯光熄灭。
3. 注水过程中时刻关注水位，第一次注水需加到最高水位线（MAX）以上（正常使用情况下，快塞接头不会漏水，注水时无需担心）。
4. 防止倾倒，第一次注满水后，盖上注水口软塞，确认各接口处无漏水。

### 注意：

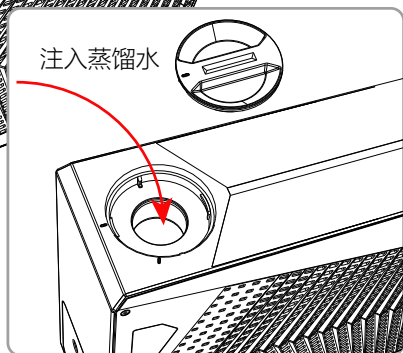
1. 水位检视窗上有标示最高以及最低水位的位置。
2. 不推荐使用冷却液，冷却液有使机器劣化的风险。



对齐指示线,打开水冷盖



对齐指示线,关闭水冷盖



## 5 使用水冷机：



1. 电脑接通电源。
2. 电脑开机，确认蓝牙已打开。
3. 按下水冷机电源按钮，水冷机的LED灯会亮起。
4. 打开电竞控制中心软件，选择“Liquid Cooling System Control”模块。
5. 选择“Device”后点击“Connect”按钮后水冷机与电脑蓝牙连接并正常工作（风扇及水循环工作）。（蓝牙就绪：恒亮（蓝灯））
6. 水冷机运行5分钟左右后，检查各接口处是否出现漏水现象，如果有，需停止水循环，重新接好各接口。
7. 水冷机正常运行后水位会有所下降，请二次注水。（补充：注意事项请参照4-3）

## 6 停止使用水冷机：


1. 停止使用水冷机前，在电竞控制中心【性能】-【Liquid Cooling System Control】下找到“Disconnect”按钮，并点击，使蓝牙连接断开。
2. 待风扇转动停止后，关闭水冷机电源。

## 7 拆卸水管：

当水冷机使用结束，欲拆卸水管，请遵守以下操作步骤：

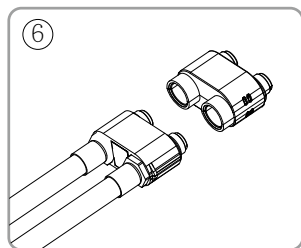
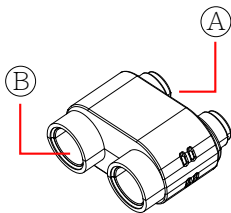
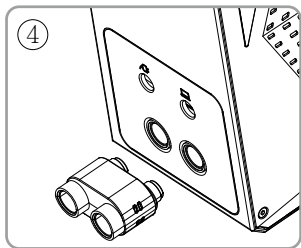
1. 先将水冷机的电源关掉。
2. 将连接笔电端的水冷头，“平行”退出笔电。（勿拉扯水管）

注意：为减少因热引起的伤害或设备过热的可能性。

 如果要拆除快拆接头，须确保水冷机停止运作（避免漏水），用手试碰接头，确保温度不高，再行拆除。

## 8 换水或携带时：

1. 将水冷机或笔记型电脑关机
2. 取下水冷机顶盖
3. 将水管从水冷机端拔下
4. 将泄水阀 (A) 面插上水冷机端排出水冷机水槽内的水分。
5. 待水冷机水槽内的水分排完，将泄水阀从水冷机出入水口拔下
6. 将泄水阀 (B) 面插上水管一端，另一端插入笔记型电脑后端进行排水。  
(当排出的水量开始减少时，轻轻提起设备并轻微摇晃以确保完全排干。)

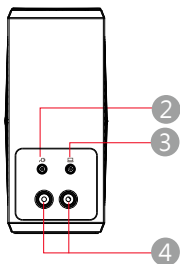
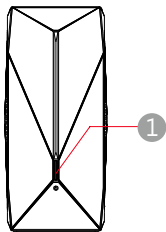


### 注意：

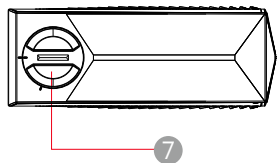
1. 为防止水冷机及水管产生水垢，请定期换水。
2. 拔插水管前后都需检查是否有水漏出，并及时清理。

## 9 产品概览:

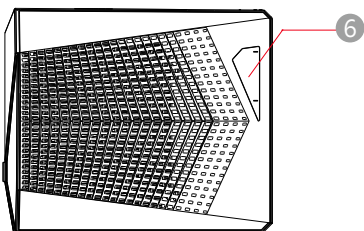
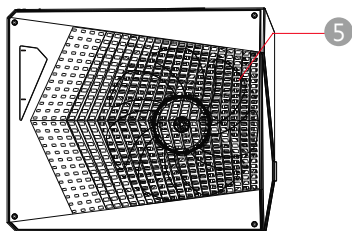
前视图/后侧视图



上视图



左侧视图/右侧视图



- ① 电源按钮+LED 指示灯
- ② DC 插孔(输入)
- ③ DC 插孔(输出)
- ④ 水冷接口
- ⑤ 散热孔
- ⑥ 水位检视窗
- ⑦ 入水孔盖

\* (蓝牙/泵注水/灯条的颜色)

- 1. 注水: 闪烁 (紫色)
- 2. 蓝牙搜索: 闪烁 (蓝灯)
- 3. 蓝牙就绪: 恒亮 (蓝灯)
- 4. 液冷系统错误: 闪烁 (水流异常\_橙色)



## 简易故障排除

1. 若出现漏水现象，请立即将设备断电，并确认水冷机各接口是否安装到位，各接口需拧紧以确保管路密封。
  2. 设备组装完毕并开机后，使用设备前请确认笔记本电脑与水冷机的蓝牙是否正常连接，若蓝牙无法连接/水冷机未正常工作。
    - 2.1 确认电源是否连接。
    - 2.2 请确认电竞控制中心是否安装。
    - 2.3 确认电脑蓝牙是否打开。
    - 2.4 若都确认无问题，可尝试将笔记本及水冷机重新启动，以重新匹配。
  3. 当水泵异常时，水冷机电源键会橘灯闪烁自动关泵，使用者检查确认无异常后，需手动按下电源开关，重新开机连线。
  4. 若水冷机有异音时，原因可能为水路中空气残留，排解方式。
    - 4.1 将外部水管与笔记本脱离，使用双头排水塞插入快塞接头泄水2秒。
    - 4.2 压水冷机左侧出水管，按压 放松 连续几次。
    - 4.3 往左方或后方倾斜机器，倾斜后维持3秒在摆正。
- 需注意水箱注水口需上盖，避免水漏出。

## 设备保养：

1. 水冷机水槽内液体需定期更换，更换方式详见操作步骤四及步骤七跟八。
2. 零下气温使用环境时，建议在使用水冷机后，将液体排放干净，以防管路冻裂。
3. 推荐使用蒸馏水，因矿物质水易造成水垢，依照建议使用。
4. 市售冷却液有使机器劣化的风险，请不要任意使用。




1. 因不同水质特性不同，建议使用蒸馏水进行加注。
2. 水冷机注水前请勿通电。



1. 使用水冷设备前注意通读用户手册。
2. 在设备通电之前，请确认各接头处是否存在漏水现象。
3. 使用未经授权使用的电缆扩展将使保修政策失效。
4. 未经设备受让人明确许可的任何更改或修改都可能使用户丧失操作设备的权限。

# Liquid Cooling Box User Guide

Please read all instructions before using this liquid cooling box and keep this manual always at hand.

1  To guarantee your rights, please confirm the completeness of the following information before you use it.

- 1.Liquid Cooling Box×1
- 2.Water tube with magnetic connector on each end ×1
- 3.DC to DC power cord×1
- 4.fast draining tool×1
- 5.HEX KEY×1 (Remove the side case to use)



**CAUTION:** This product is intended to be supplied by Power Adapter, output rated 19.5Vdc, 16.9A or 20Vdc, 14A.



**CAUTION:** : We conduct outgoing quality control (oqc) with distilled water for each Liquid Cooling Box ensuring a closed loop circuit where no leakage may occur.



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



**CAUTION:** Using unauthorized extension cables/tubes will invalidate your warranty.

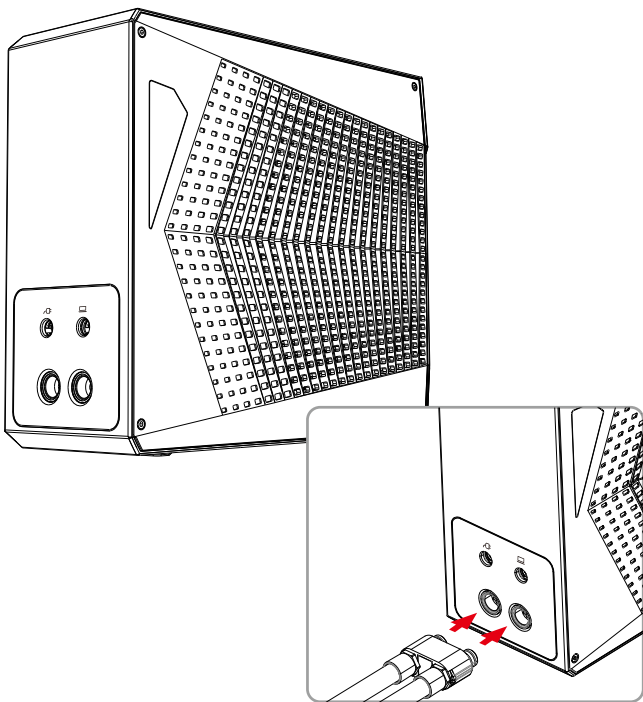


The unit can be operated at an ambient temperature of max. 35°C (95°F). Do not subject it to temperatures below 5°C (41°F) or above 35°C (95°F).



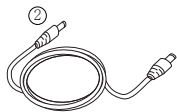
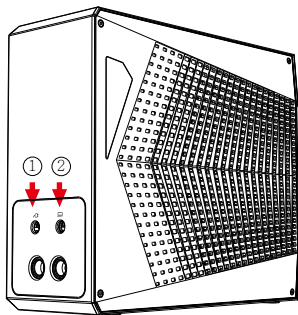
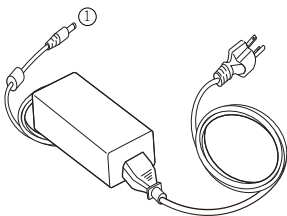
## 2 Prepare your Liquid Cooling Box

1. Read the User Manual before operating Liquid Cooling Box.
2. Check if the connectors are attached to the Water Tubes firmly.
3. Gently attach the black connectors on the Water Tubes to the Liquid Cooling Box, make sure it is attached firmly and avoid twisting tubes.
4. Place the Liquid Cooling Box horizontally on the desk.

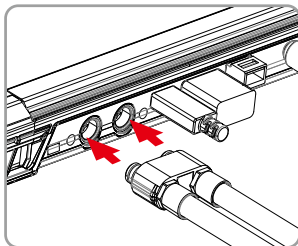


### 3 Connect Liquid Cooling Box to the Laptop

1. Place the laptop on the desk, Some model need open the rubber flap on the rear side of the laptop.
2. When connecting the water tubes to the laptop, you will hear a light "click" sound, upon hearing the "click sound" it means that you have connected it correctly. (Note : Please do not forcibly pull too hard on the water tube)
3. Connect the power adaptor to the Liquid Cooling Box's DC port (note. don't plug in the power yet).
4. Connect Liquid Cooling Box's DC Cable to the laptop's DC port (note. don't plug in the power yet).



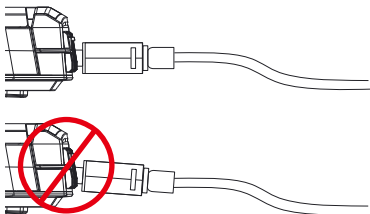
Connect laptop's DC port



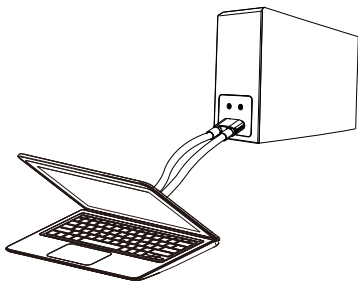
DC INPUT: 280 Watts (20V/14A) Option  
330 Watts (19.5V/16.9A) Option

Parallely insert connectors  
into the laptop.(Note)

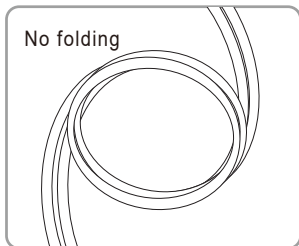
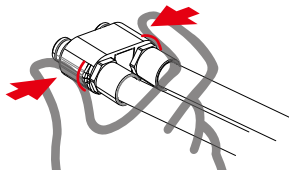
Note: Parallely insert the water tubes into the laptop. Please make sure the connectors are connected correctly and sturdy.



Note: please pay attention to the following points if you are using the water tubes



Please parallely remove connectors with your hands.  
Do not remove the connectors by pull out with tubes.

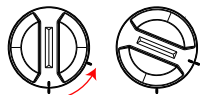
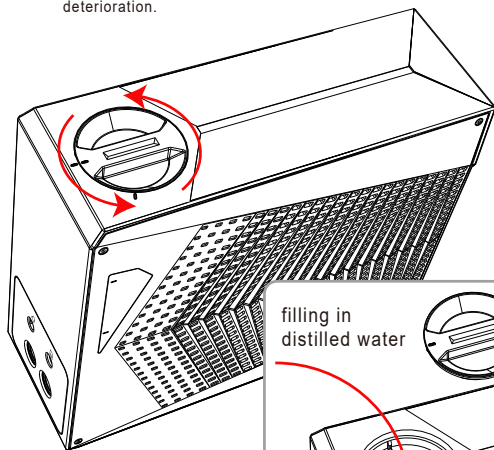


## 4 Inject water into the Liquid Cooling Box

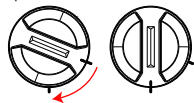
1. Open the lid on the Liquid Cooling Box. Also, distilled water is recommended.
2. After filling in distilled water, long press the power button located on the Liquid Cooling Box for 4-5 seconds. The power button will glow in purple indicating entering "Water Injection Mode".
3. Monitor the water level when injecting the water, add the water above the MAX indicator for the first time (note. under normal circumstances, the silver connector will not leak water).
4. Avoid tilting the Liquid Cooling Box, after filling in the water, recap the rubber lid and make sure that no leakage is observed.



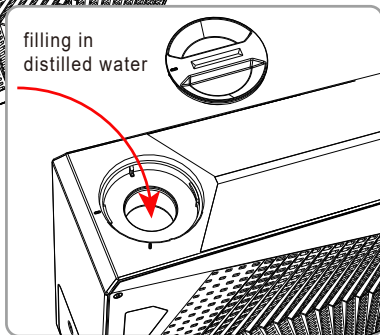
1. The highest and lowest water levels are marked on the Water tank meter.
2. Coolants are not recommended as majority coolants that are sold/found in the market have high risks of causing material deterioration.



Align the indicator lines and open the lid



Align the indicator lines and close the lid



## 5 ] Operate your Liquid Cooling Box



- 1.Plug in the laptop power cord to the power socket.
- 2.Turn on the laptop and make sure the Bluetooth is turned on as well.
- 3.Press the power button on the Liquid Cooling Box and the LED indicator will start glowing.
- 4.After selecting “Device” and Click “connect” button then Liquid Cooling Box and the laptop will pair via Bluetooth (the fan and water pump are then activated). (BT ready : Hengliang (Blue color))
- 5.Check all ports for leakage after five minutes, if there is, turn off the power and reconnect the port.
- 6.The water level drops in standard operation, please add distilled water and make sure the water level is above the marker indicator (note. please reference 4-3).

## 6 ] Disconnect your Liquid Cooling Box

- 1.Disconnect the Bluetooth via application “Control Center”- “Performance” - “Liquid Cooling System Control”.
- 2.Turn off the power (of the Liquid Cooling Box) only when the fan stopped turning.

Note. The mentioned steps apply to normal installation and usage of Liquid Cooling Box (e.g. fixed environment).

## 7 ] Disconnect the Water Tubes

When you finished using the Liquid Cooling Box, and intend to disconnect the Water Tubes, please follow the instructions listed below:

- 1.Turn off the power by pressing the power button on the Liquid Cooling Box.
- 2.Connector which is connected to the laptop and remove it from the laptop horizontally.

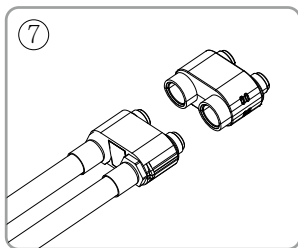
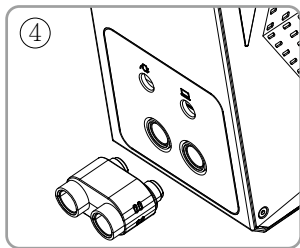
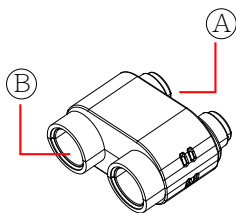


To reduce the possibility of heat-induced injury or equipment overheating: If you want to remove the quick release connector, make sure the Liquid Cooling Box is turned off (to avoid water leakage) and test the connector by hand to make sure the temperature is not too high before removing it.

## 8 Change water or Travel

In order to properly release/drain the water from LCT22002 device, please follow the below steps :

1. Shutdown the Laptop and Power off the LCT22002
  2. Open the lid and remove it from the top.
  3. First disconnect the "water tube" from the LCT22002.
  4. Insert the draining tool to the LCT22002 with "Side A "
  5. Allow some time for the water to flow out to empty the LCT22002.6. Once it is emptied, disconnect the draining tool from the LCT22002.7. Pull out and Flip the Draining tool around so that it is inserted into the water tube with "Side B", then insert the opposite side of the water tube into the back of the laptop to drain the water from the laptop.
- \*When the water flowing out starts slowing down, you may gently lift up the devices and shake gently to ensure that it is fully drained.



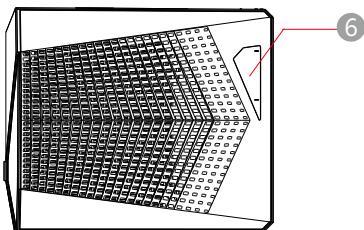
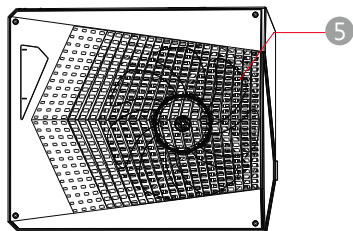
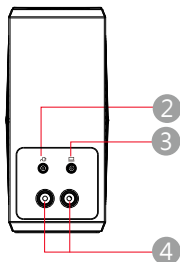
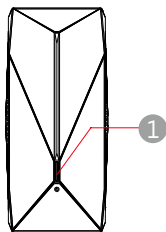
1. To ensure that water clogs do not happen, please change the water periodically.
2. When unplugging the water tubes, please always check for any water leakage and clean immediately if any.



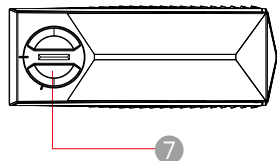
## 9 Product Overview

Left side view  
Right side view

Front side view  
Back side view



Top side view



- ① Power Button / LED Indicator\*
- ② DC Port (IN)
- ③ DC Port (OUT)
- ④ Drain Pipes
- ⑤ Vents
- ⑥ Water tank meter
- ⑦ Top Lid

\*(Colors for BT/Pump injection water/ lightbar)

- 1. Water injection : Blinking(Purple color)
- 2. BT searching :Blinking (Blue color)
- 3. BT ready : Hengliang (Blue color)
- 4. Liquid cooling system error : Blinking (Pump idling \_Orange color)

## Trouble Shooting Guide

- 1.If water leakage occurs: please disconnect the device immediately and check if Liquid Cooling Box's ports are connected firmly, all ports should be tightened to ensure all pipes are sealed.
  - 2.Check if the laptop and Liquid Cooling Box is paired properly via Bluetooth before activating the Liquid Cooling Box, if not:
    - 2-1. Check if the power is turned on and connected.
    - 2-2. Check if the Control Center is installed.
    - 2-3. Check if laptop's Bluetooth is turned on.
    - 2-4. Restart laptop and Liquid Cooling Box so it can pair again.
  - 3.When Liquid Cooling Box's water pump is malfunctioning: the power button will flicker in red light and shut down automatically after 10 seconds.
  - 4.If you hear abnormal sounds coming from the LCT22002, it may be due to oxygen that is stuck inside of the pipes, please follow the steps below to remedy the issue :
    - 4-1.please detach the water tube from the notebook, Please use the provided "drainage tool" and inject it into the two holes on the water tube for 2 seconds.
    - 4-2.Gently squeeze the left tube, release and squeeze gently a few times. (Back side view)
    - 4-3.Tilt the LCT22002 to the left or backwards and maintain that position for 3 seconds before placing it back to original position.
- Note : please make sure that the top lid is properly screwed on so that no water will spill out.

## Device Maintenance

- 1.Replace the water in Liquid Cooling Box's water tank regularly, check  
4 Inject water into the Liquid Cooling Box, 7 Disconnect the Water Tubes and 8 Change water or Travel for more details.
- 2.When using Liquid Cooling Box in sub-zero temperature, please drain the water completely after every usage, to prevent the pipes from frost crack.
- 3.Using distilled water is recommended.
- 4.Coolants are not recommended as majority coolants that are sold/found in the market have high risks of causing material deterioration.

**Note.**

1. Due to different water quality, mineral water has higher chance if water scaling.
2. Please do not connect to power before water injection (only turn on the power/ connect to power if it is filled with water).
3. If there is abnormal noise coming from the pump, this could be the result of air bubbles still trapped inside the tubes, Troubleshooting steps are as below:

**Reminder**

1. Please read the User Manual before operating the device.
2. Please check all ports in case of water leakage before powering up the device.
3. Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this device.
4. Using unauthorized extension cables/tubes will invalidate your warranty.

## Regulations Information

☐ CE compliance

This device is classed as a information technicalequipment (ITE) in class B and is intended for use in living room and office. The CE-mark approves the conformity by the EU-guidelines:

- EMC Directive 2014/30/EU,
- Low Voltage Directive 2014/35/EU,
- RF Directive 2014/53/EU

## FCC Information

### FEDERAL COMMUNICATIONS 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:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/ TV technician for help.



CAUTION: Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the equipment.

## **RF Exposure Warning**

This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be provide with antenna installation instructions and transmitter operating conditions for satisfying RF exposure compliance.



**CAUTION:** Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the equipment.