

KHRONOS ECOSYSTEM FOR IPHONE 15 PRO / 15 PRO MAX

KHRONOS iPhone 15 Pro / 15 Pro Max 专用手机壳拓展套件

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Despite the above provisions, consumer rights are still protected by local laws and regulations and are not affected by this disclaimer.

## CAUTIONS & WARNINGS

Prior to using this product, please strictly adhere to the following instructions. KHRONOS assumes no responsibility for any consequences resulting from improper operation or misuse.

## Accessory Notices

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• Some product kits include the KHRONOS Focus PD Handle for iPhone (TK-IP-PH-SG), which features a built-in 7.4V 37Wh 5000mAh lithium battery.

- KHRONOS's Card Holder and Cooling System for iPhone (TK-IP-CS-SG) (optional) can magnetically attach to an iPhone.
- The KHRONOS Cooling System for iPhone (TK-IP-CS-SG) (optional) may generate slight heat during operation. This is normal.

# **Accessory Requirements**

• Charging environment temperature higher than 40°C or lower than 5°C may lead to battery performance degradation, expansion, leakage, overheating and other damages.

Do not store the battery in an environment that exceeds 60°C. The ideal ambient temperature for storage is 22°C to 28°C.

# **Operating Environment**

• Use the battery in an environment where the temperature is between -20 °C and 45 °C. Higher temperatures may cause abnormalities in the battery. Excessive temperatures may cause abnormal expansion, fire, or even explosion of the battery. It is recommended to fully charge the battery at room temperature before using it in a low-temperature.

• Do not place the device near flammable or combustible materials (e.g. carpets and wooden products) for charging. Keep an eye on the charging process to prevent accidents.

• Store the device in a dry environment. Ideally, the device should be stored in an environment with a humidity of no more than 40%.

# **Battery Safety**

▲ [Warning]

• KHRONOS Focus PD Handle for iPhone (TK-IP-PH-SG) is equipped with a non-removable built-in battery. Please do not attempt to replace the battery yourself to avoid damaging the battery or the device.

• Do not expose the battery to high temperatures or around heat generating devices such as sunlight, heaters, microwaves, ovens or water heaters. Overheating of the battery may cause an explosion.

### CAUTIONS & WARNINGS

# **Battery Safety**

# A [Warning]

• Do not disassemble or modify the battery, insert foreign objects, or immerse it in water or other liquids, as this may cause the battery to leak, overheat, catch fire, or explode.

• The electrolyte inside the battery is highly corrosive. If it accidentally comes into contact with your skin or eyes, rinse immediately with clean water for at least 15 minutes and seek medical attention.

• Do not throw the battery into fire, as this can cause it to catch fire and explode.

• Do not drop, squeeze, or puncture the battery. Avoid subjecting the battery to external pressure, which may cause internal short circuits and overheating.

• Do not use damaged batteries.

• Do not store the battery for an extended period after it has been completely discharged, to avoid entering a deep discharge state that can cause damage to the battery cells, rendering it unable to be used again.

• Be sure to fully discharge the battery before disposing of it in a designated battery recycling bin. Batteries are hazardous chemicals and must not be disposed of in regular trash bins. For details, please follow the local laws and regulations regarding battery recycling and disposal.

• If the battery cannot be fully discharged, do not dispose of it directly in a battery recycling bin; instead, contact a professional battery recycling company for further processing.

# Maintenance & Care

• Please keep the device clean and free of sand, dust, and other foreign objects. Use a clean, dry cloth to promptly clean any debris on the product.

• Do not subject the device and its accessories to strong impacts or vibrations, as this may damage them and cause device failure.

# 4 MEET KHRONOS IPHONE 15 PRO/15 PRO MAX CASE



127.5g (case + card holder) • Color: Space Gray / Titanium White



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KHRONOS IPHONE 15 PRO MAX CASE



# **15** ASSEMBLING KHRONOS IPHONE 15 PRO / 15 PRO MAX CASE

[KHRONOS iPhone 15 Pro Max Case] Place the phone into the case ① and secure the top cover ② to the case using the M2 screws, completing the assembly.



#### ASSEMBLING THE CARD HOLDER



[KHRONOS iPhone 15 Pro Max Case] After magnetically attaching the cardholder to the back of the case ①, push upwards to insert the cardholder ② into the cardholder slot on the case to complete the assembly.

#### **I6** MEET KHRONOS COOLING SYSTEM FOR IPHONE (OPTIONAL)



 $\dot{\underline{\bigcirc}}$ . The cooling system does not include a battery and does not have a built-in battery ; it requires an external power source for operation.

#### PRODUCT SPECIFICATIONS

- Material: Aluminum Alloy
- Weight: 106.5g

#### BUTTON FUNCTION



Wireless Charging Function Button 1st level (single click): Outputs 5W, white light

2nd level (single click again): Outputs 10W bright white light



• Color: Space Gray / Titanium White



Cooling Function Button 1st level (single click): Standard cooling, blue light

2nd level (single click again): Increased cooling, dark blue light

#### ASSEMBLING THE COOLING SYSTEM



[KHRONOS iPhone 15 Pro Max Case] Align the cooling system ① with the locating points and contact points on the back of the phone case @, and magnetically attach it to the back of the phone to complete the assembly.



#### MEET KHRONOS FOCUS PD HANDLE FOR IPHONE (OPTIONAL)

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#### USB-C Port (PD Dual-directional Fast Charging)

2 3.5mm Microphone Port (for 4-Pole 3.5mm Audio Cables)

- R Dial
- 4 Locating Pins
- 5 Clamp
- Electronic Contact Pins
- USB-C Power Cable (Output only) (70mm)

- B Status Indicator Light 9 Power Indicator Light
- Power/Record Button

<BACK>

- Function Button
- Clamp Release Button (Press to unlock)
- Locking Lever

#### PRODUCT SPECIFICATIONS

Material: Alumium Alloy+SUS304+Silicone+ABS+PC

Weight: 300g

Dimensions: 103.8×49×65.1mm

Colors: Space Gray/Titanium White

#### FEATURE DESCRIPTION



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#### Function Button

01 Single Click: Toggle between ZOOM and FOCUS functions in the Blackmagic Cam APP. 02 Double Click: Switch between Bluetooth HID mode and APP mode. (HID mode controls the native camera; APP mode controls Blackmagic Cam). 03 Long Press: Toggle the USB-C power cable on/off to supply power to the phone. 04 Triple Click: Clear phones paired through HID and APP modes. After clearing, the status indicator will flash red and green of for 3 seconds. (After clearing, the paired phones will not reconnect automatically to the handle; the phone must re-pair.)

# 0115M

#### Power/Record Button

01 Hold for 3 seconds: Power on/off

02 Single click: In HID mode, when using the camera interface, one click takes a photo; when using video interface, one click starts recording. In APP mode, one click starts recordina.



#### Dial

01 APP mode: Control zoom and focus in Blackmagic Camera App. 02 HID mode: Control zoom in native camera of certain Android devices.

### INDICATOR LIGHT

Hold the [Power/Record] button for 3 seconds to power on — the red or green light () will illuminate.

Double click the [Function] button to switch modes — APP mode (solid red light) or HID mode (solid green light ) .

for 3 seconds

Bluetooth connection confirmed – red light @ flashes (APP mode) or green light @ flashes (HID mode).

#### ASSEMBLING KHRONOS FOCUS PD HANDLE FOR IPHONE



Power the smartphone via the handle's built-in USB-C cable. Connect the power cable ①, press the handle's clamp release button ② to attach it to the phone case's quick-release ports ③ (as shown in the image), and then lock the lever ④ to secure the handle.

# Horizontal Shooting Mode

# Vertical Shooting Mode

#### POWER INFORMATION

# 7.4V 37Wh 5000mAh

- (1) Operating temperature: Charging: 0°C~45°C;
- Discharging: -20°C~60°C
- (2) Storage temperature: -20°C~45°C
- (3) Operating humidity: 90~95% (Max.)
- (4) Storage relative humidity: ≤70%RH
- (5) Warranty period: fewer than 200 cycle counts (12 months)



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#### USB-C POWER INPUT/OUTPUT RANGE

Input 30W (When powered on, maximum input 5W; when powered off, maximum input 30W)

Output 20W (When powered on, maximum output 5W; when powered off, maximum output 20W)

#### USB-C POWER CABLE OUTPUT RANGE Output 20W

### FIRMWARE UPDATES

1. Download the latest firmware from the TILTA official website. If you have any installation queries, please consult TILTA's official customer service. (TILTA Official Website: www.tilta.com)

2. With the handle powered off, press and hold the [Function] button and the [Power/Record], button at the same time until the indicator light turns yellow and starts to flash?;

3. Connect the handle to a personal computer using a data cable via the Type-C port. Move the downloaded firmware update to the handle's drive to complete the update process.



Connect the handle

Hold the [Power/Record] button for 3 seconds to power on

Double click the [Function] button to switch modes

After mounting the handle to the phone, hold the [Power/Record] button for 3 seconds to power on the device, and wait for the status indicator to light up. Double click the [Function] button to switch modes — APP mode (steady red light ) or HID mode (steady areen light )

# **12** APP Mode — Control Blackmagic Cam APP



When the handle is in APP mode, open the Blackmagic Cam APP on the phone and go to [Settings]>[Accessories]>[Nucleus Wireless Lens Control] to link the handle.

Once connected, indicated by a flashing red light O, the handle's [Record] button can start/ stop recording, and the [Dial] adjusts focus and zoom in the APP.

(When operating in App Mode, switching modes or restarting the device requires manual Bluetooth reconnection in Blackmagic Camera App.)

# **II** HID Mode — Control Native Camera



When the handle is in HID mode, activate the phone's Bluetooth on the phone and from the available device list, choose the handle for pairing. Once connected (green light © flashes), the handle's [Record] button can control the phone's native camera for video and photos, and the [Dial] can adjust zoom in native camera on select Android models. (When the controller is in HID mode and has been previously paired with the mobile phone's Bluetooth, upon reopening the phone's Bluetooth, the system will automatically connect to the controller's Bluetooth.)

-  $\dot{\Box}$  - 1. The handle's current mode is indicated by the startup light; red for APP mode or green for HID mode.

2. Mode settings are retained after a reboot.

3. The handle has distinct Bluetooth names for each mode due to different MAC addresses.

(e.g., TILTA-000000000001 for APP,TILTA-00000000002 for HID)

4. In HID mode, the handle can also trigger recording in the Blackmagic Cam APP via [Settings]>[Camera]>using the volume keys.



have a built-in battery; it requires an external power

source for operation.

(2) Connect both ends of the configured Dual Right Angle USB-C cable 4 to the designated USB-C ports on the smartphone and the hub.

#### QUICK RELEASE USB-C HUB EXTERNAL POWER SUPPLY INSTRUCTIONS



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After assembling the hub according to the previous description (see 1234 for the assembly order), an iPhone series focus power handle or other power sources can be connected to power the hub.

#### For the Khronos Power Handle for iPhone

- powered by Cable

(1) Insert the handle's USB-C power cable into the hub's power input port (5).

(2) Press the release button (5) on the handle, attach the handle to the phone case's quick-release mounting points with dual electronic contacts (7), and then lock the lever (8) to secure the handle.

(3) Hold the power button  $\textcircled{\baselinet}$  on the handle for 3 seconds to activate the handle.

(4) The handle powers both the hub and the phone case through the handle's USB-C power cable.





# 3 QUICK RELEASE USB-C HUB POWER SPECIFICATIONS



(1) If PD  $\leq$  45W (with 15W reserved by the product)

Enables phone charging but disables power via electronic contacts.

(2) If 45W  ${\leq}$  PD  ${\leq}$  65W (with 15W reserved by the product) - Disables phone charging but enables power via electronic contacts.

(3) If PD > 65W (with 15W reserved by the product) — Enables both phone charging and power via electronic contacts.



#### 4 MEET KHRONOS NATO BRACKET WITH WOODEN HANDLE (OPTIONAL)





#### ASSEMBLING THE NATO BRACKET WITH WOODEN HANDLE



Press the clamp release button (1), attach the NATO Bracket with Wooden Handle to the quick-release mounting points (2) of the phone case , and then lock the lever (3) to complete the assembly.

#### MOUNTING NUCLEUS NANO II HAND WHEEL CONTROLLER



As shown, mount the hand wheel onto the NATO Bracket with Wooden Handle's NATO rail and lock the lever on the wheel to complete the assembly.







Press and hold the release button on the handle (1), attach the handle to the quick-release mounting points of the phone case 2, lock the lever 3 and complete the assembly.



#### MEET THE MINI LED PANEL / CIRCULAR WOODEN HANDLE / UNIVERSAL SSD HOLDER (OPTIONAL)



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#### Assembling the MINI LED PANEL(TK-MLP-DL-SG)

Press the release button ① on the light, then mount the light onto the case with the quick-release mounting points ② equipped with dual electronic contacts (as shown), completing the assembly. Long press the power button to activate.

#### Assembling the Universal SSD Holder (TK-USH-SG)

Press the release button 3 on the SSD holder, then mount the holder onto a quick-release mounting points 4 on the case (as shown), completing the assembly.

#### Assembling the CIRCULAR WOODEN HANDLE (TK-CWH-SG)

Press the release button (5) on the circular wooden handle, then mount the handle onto the case with the quick-release mounting points (6) (as shown), and lock the lever (7) to complete the assembly.



#### SSEMBLING KHRONOS QUICK RELEASE FILTER TRAY FOR IPHONE/ KHRONOS MAGNETIC BLACK MIST FILTER FOR IPHONE (OPTIONAL)



Assembling the Khronos Quick Release Filter Tray for iPhone

After adjusting the filter tray to the appropriate angle ①, press the release button on the filter tray ②, attach it to the designated quick -release mounting points ③ on the case as shown in the illustration, and press the filter tray's anti-rotation clip ④ into the phone case's anti-rotation slot to secure the adapter to complete the assembly. (The lens adapter allows for 180° angle adjustment.)



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# Assembling the iPhone Filter

Align the filter with the guide slot (A) on the filter holder, magnetically attach the filter (B) to the filter holder, and complete the assembly.



AFTER ASSEMBLY — UNLOCKING THE ANTI-ROTATION CLIP

> Hold the anti-rotation clip A to unlock and adjust the angle of the filter tray B.



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# 1 注意事项与警告

使用本产品前,请严格遵守以下说明,如因失误操作或者不正当使用等造成的相关后果,KHRONOS不负任何责任。

## 配件知悉

- 部分产品套装内包含KHRONOS iPhone系列跟焦供电侧手柄(TK-IP-PH-SG),手柄内置 7.4V 37Wh 5000mAh 锂电池。
- KHRONOS iPhone系列手机卡包、散热器(TK-IP-CS-SG)(选配)可磁吸到iPhone手机上。
- KHRONOS iPhone系列散热器(TK-IP-CS-SG)(选配)在工作状态中会产生轻微发热,此为正常现象。

# 配件要求

充电环境温度高于40℃或低于5℃可能导致电池性能下降、膨胀、漏液、过热等损坏。

• 切勿将手柄电池存储在超过60℃的环境下。理想的存储环境温度为 22℃至28℃。

# 操作环境

 请在温度为-20℃至45℃之间的环境中使用电池。温度过高将会引起电池异常膨胀、着火,甚至爆炸。在低温环境下使用之前,建议先在常温环境中将电池充满 电量,以延长电池使用寿命。

• 请勿将设备放置在易燃、可燃物(如地毯和木制品)附近充电。请时刻留意充电过程,谨防发生意外。

• 请在干燥的环境下存储设备,理想的设备存放环境湿度不高于 40%。

# 电池安全

# ▲【警告】

• iPhone系列跟焦供电侧手柄(TK-IP-PH-SG)配有不可拆卸的内置电池,请勿自行更换电池,以免损坏电池或设备。

• 请勿将电池暴露在高温处或发热设备的周围,如日照、取暖器、微波炉、烤箱或热水器等。电池过热可能引起爆炸。

• 请勿拆解或改装电池、插入异物、或浸入水或其它液体中,以免引起电池漏液、过热、起火或爆炸。

#### ······ 22 注意事项与警告

## 电池安全

# 🛦 【警告】

- 电池内部电解液具有强腐蚀性,如果不小心接触到皮肤或眼睛,请立即用清水冲洗至少15分钟并马上就医。
- 请勿把电池扔到火里,否则会导致电池起火和爆炸。
- 请勿跌落、挤压或穿刺电池。避免让电池遭受外部大的压力,从而导致电池内部短路和过热。

#### • 请勿使用已经损坏的电池。

• 切勿将电池彻底放完电后长时间存储,以避免电池进入过放状态而造成电芯损坏,将无法恢复使用。

• 务必将电池彻底放电后,再将电池废置于指定的电池回收箱。电池是危险化学品,严禁弃置于普通垃圾箱。相关细节,请遵循当地电池回收和废置的法律法规。如电池无法彻底放电,请勿将电池直接弃置于电池回收箱,应联系专业电池回收公司做进一步的处理。

# 维护和保养

- 请保持设备清洁,无沙尘等异物。使用干净、干燥的布料及时清理产品上的异物。
- 请勿使设备及其配件受到强烈的冲击或震动,以免损坏设备及其配件,导致设备故障。

# 23 认识KHRONOS iPhone 15 PRO/15 PRO MAX手机壳







# 24 装配KHRONOS iPhone 15 PRO/15 PRO MAX手机壳







以KHRONOS iPhone 15 Pro Max专用手机壳的卡包为例, 将卡包磁吸到手机壳背面①后,向上推动卡包②嵌入手机壳的卡包安全扣中, 完成装配。







# 7 认识iPhone系列跟焦供电侧手柄(选配)





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# 规格参数

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- 材质: 铝合金+SUS304+硅胶+ABS+PC
- ●尺寸:103.8×49×65.1mm

● 颜色配置: 深空灰/钛白色

●重量: 300g



FUNC

### 功能键

01 单击: 切换Blackmagic Cam APP 里ZOOM和FOCUS功能

02 双击: 切换蓝牙HID模式和APP模式

(HID模式:控制原生相机;APP模式:控制Blackmagic Cam APP) 03 长按:切换打开/关闭Type-C供电线给手机供电

04 三击:清除通过HID和APP模式已配对的手机。清除完成, ⑧状态指示灯红绿灯 交替闪烁3S。(清除后,已配对的手机无法自动回连手柄,需要手机忽略已配对的 手柄,重新配对。)



# 电源/录制键

01 长按3秒:开/关机

02 单击:在HID模式下,若当前是拍照界面,单击为拍照;若当前是录像界面,单击 为录像。在APP模式下,单击为录像。

# 拔轮

01 APP模式:可控制Blackmagic Cam APP的变焦和跟焦 02 HID模式:可控制部分安卓手机原生相机的变焦

# 状态指示灯灯语

长按3秒【电源/录制键】开机——●/● 红灯或绿灯亮起
双击【功能键】切换模式—— APP模式(● 红灯常亮)或HID模式(● 绿灯常亮)
三击【功能键】清除已配对设备——● 红绿灯交替闪烁3秒
蓝牙连接成功——● 红灯闪烁 (APP模式) 或 ● 绿灯闪烁 (HID模式)
进入固件更新状态—— 黄灯●亮起至● 闪烁

■ Type-C电源接口(PD输入输出双向快充)
■ 25mm=素可培口

2 3.5mm麦克风接口 (适用三环四节的3.5mm音频插头)

- 3 拨轮
- 4 定位柱
- 5 卡扣
- **B** 电子弹针
- Type-C供电线(仅支持输出)(线长约70mm)



通过手柄自带的Type-C输出供电线给手机供电。 连接供电线①后,按压手柄的卡扣解锁按键②将手柄安装到手机壳的快拆接口③(如图)上, 再锁紧扳扣④固定手柄。



## 使用须知

### 手柄电池容量 7.4V 37Wh 5000mAh

- (1) 工作温度:充电:0℃~45℃;放电:-20℃~60℃
- (2)存储温度:-20°C~45°C
- (3)运行湿度: 90-95%(Max.)
- (4)存储相对湿度:≤70%RH
- (5) 质保期:12个月且循环次数少于200次

### **TYPE-C**接口功率输入/输出范围



TYPE-C供电线功率输出范围 输出20W

# 固件更新

1. TILTA官网下载更新固件,如有安装疑问,可咨询铁头官方客服。

(TILTA官网: www.tilta.com)

2. 手柄在关机状态下,长按【功能键】同时长按【电源/录制键】,待指示灯 黄灯 · ● 亮起至 · ② 闪烁状态;

3. 使用数据线连接手柄Type-C接口至个人电脑,将下载好的更新固件 移动到手柄盘符里即更新完成。



# 30 认识手机壳通用拓展坞(选配)





## 装配通用拓展坞

(1)按压拓展坞的卡扣解锁按键①,将拓展坞安装到手机壳上带双向电子触点的快拆接口②上,锁紧 扳扣③完成装配。

(2)将配置的双弯头Type-C数据线④两端连接到手机和拓展坞指定的Type-C接口上即可。



根据上篇所述的装配方式安装拓展坞(如图 1 2 3 4 序号装配)后,可外接iPhone系列跟焦供电手柄或 其他电源给拓展坞供电。

如图iPhone系列跟焦供电侧手柄——电源线供电 (1)将手柄的Type-C供电线插入拓展坞的供电接口⑤。 (2)按压手柄的卡扣解锁按键⑥,将手柄安装到手机壳带 双向电子触点的快拆接口⑦上,再锁紧扳扣⑧固定手柄。 (3)长按3S按住手柄的电源键①,启动手柄。 (4)手柄通过Type-C供电线给拓展坞和手机壳供电。

















按住手柄的卡扣解锁按键①,将手柄安装到手机壳的快拆接口②上, 锁紧扳扣③完成装配。



# 36 认识通用mini补光灯/圆形侧手柄/固态硬盘支架(选配)





# 装配通用mini补光灯(TK-MLP-DL-SG)

按压补光灯上的卡扣解锁按键①,将补光灯安装到手机壳上带双向电子触点的快拆接口②上 (如图),完成装配。长按开关键即可使用。

# 装配固态硬盘支架(TK-USH-SG)

按压固态硬盘支架的卡扣解锁按键③,将硬盘支架安装到手机壳的快拆接口④上(如图),完成装配。

装配圆形侧手柄(TK-CWH-SG) 按压圆形侧手柄的卡扣解锁按键⑤,将圆形 侧手柄安装到手机壳的快拆接口⑥上(如图), 锁紧扳扣⑦完成装配。



注意: iPhone系列T卡口镜头转接件(TK-IP-TLA-SG)仅适用于Fotorgear品牌的T卡口手机镜头。

# 38 装配 iPhone系列手机滤镜支架/手机滤镜片(选配)



(滤镜支架可180°角度调节)



