

01 免责申明和警告

感谢您购买TILTA产品。

使用本产品之前,请仔细阅读本文以确保已对产品进行正确的设置。本文档及本产品所有相关的文档最终解释权归于ILTA所有。如有更新,恕不另行通知。请访问www.tilta.com官方网站以获取最新的产品信息。

一旦使用本产品,即视为您已经仔细阅读免责声明与警告,理解、认可和接受本声明全部条款和内容。您承诺对使用本产品以及可能带来的后果负全部责任。您承诺仅出于正当目的使用本产品,并且同意本条款以及TILTA制定的任何相关条例。政策和指引。

TILTA对于直接或间接使用本产品而造成的损坏、伤害以及任何法律责任不予负责。用户应遵循包括但不限于本文提及的所有安全指引。

即使存在上述规定,消费者权益依然受当地法律法规所保障,并不受本免责声明影响。

TILTA是深圳市铁头科技有限公司及其关联公司的商标。本文出现的产品名称、品牌等,均为其所属公司的商标或注册商标。

(一) 滤镜产品使用前的注意事项及免责申明

- *【注意事项】: VND 可调ND值为0.3-2.7,建议选择在35mm以上焦段的镜头,24mm等焦段在高档位时会出现十字暗纹或暗角(这是受限于减光镜的原理和构造、无法避免),在购买和使用前请熟知。
- *【方形滤镜片注意事项】:关于方形滤镜片的使用请参考说明书第9页【方形滤镜取出注意事项】具体详情,切勿盲目操作。
- *【免责声明】: 如末根据使用说明操作,拍摄的视频素材出现十字或暗角,使其素材无法使用; 或操作不当致其滤镜片损坏,本公司概不负责。

(二)关于滤镜产品维护

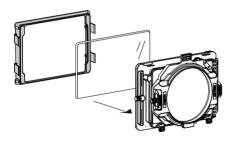
光学产品属于精密仪器类产品,运输过程及储存需注意包装保护,置于干燥阴凉处,同时做好防水、防潮保护;因光学产品的清洁需要专业清洁 工具和人员,需要注意防尘保护,避免污损后无法清洁。人为损伤包含以下内容。

- ①使用过程中的排/碰/刮伤。 ②储存环境不当,导致镜片被腐蚀发霉。 ③镜片污损,清洁擦拭不当划伤镜片。 ④运输保护不当,导致损伤。 ⑤使用后,各接触部位的划痕/露白等问题。
- ⑥更换包装过程/环境不洁净/落尘/采用不正确的清洁方式划伤镜片表面;(落尘后用希尔球吹掉表面灰尘,不能去除的灰尘,可用洁净无尘布蘸取适量97%浓度酒精旋转清洁,避免灰尘的二次划伤)
- ⑦运输途中若需海运,需要对产品进行密封干燥保存,防止海风/海水的高腐蚀对镜片的侵蚀损坏。
- 以上为几点及不可描述的人为损坏原因,不属于产品的正常维护范围。非人为损坏,产品自身质量问题,我公司负责3个月内的更换和维修。

03

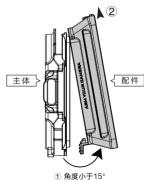
特别提醒

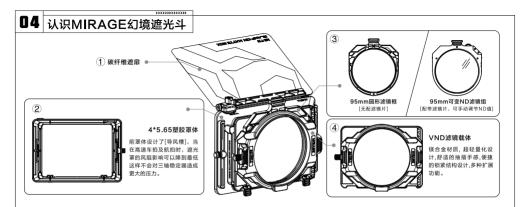
(一)使用幻境遮光斗在高速移动拍摄或极端恶劣的环境下(如沙漠/ 雪地等),强烈建议搭配[保护镜]使用,可有效地保护镜头和滤镜 组的使用。



*高速移动拍摄时可不用碳纤维遮扉(MB-T16-TF)。

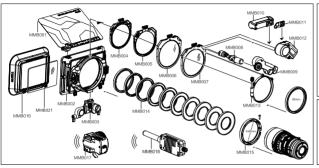
(二)拆卸斗壳或使用类似拆卸方式的配件时(如幻境软胶消光斗/95mm滤镜 叠加配件/4*5.65滤镜卡槽基础配件),配件与主体的打开角度不宜超过15° 并且配件向上滑出,避免对主体安装卡扣造成损坏。

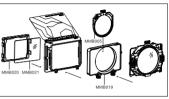


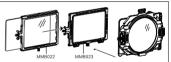


[MIRAGE幻境遮光斗]是一款为新时代视频创作者开发的全新滤镜系统遮光斗,超级轻量化设计、多形态模块化设计、全新的95mm圆形滤镜框,让用户可以使用成本更低重量更轻的滤镜产品。同时推出一款幻境无线控制VND搭配遮光斗为创作者带来无限的可能,为视频创作者带来更大的价值。

分解说明图示







编号	名称	型号
MMB001	碳纤维遮摩	MB-T16-TF
MMB002	VND滤镜载体	
MMB003	15mm导轨支撑	MB-T16-LS
MMB004	95mm圓形滤镜框	MB-T16-CFT
MMB005	95mm双面滤镜框	MB-T16-DCF
MMR006	95mmCPI 偏振波箱	MB-T16-POLA

编号	名称	型号
MMB007	95mm可变ND滤镜组	MB-T16-VND
MMB008	原力N电机适配件	мв-тм-нма
MMB009	原力N马达	WLC-T04-N
MMB010	14500电池仓	MB-TM-PS
MMB011	马达防护盖	
MMB012	VND专用马达	MB-TM-WM

编号	名称	型号
MMB013	可变ND轻便型卡圈	MB-T16-LFA
MMB014	86/85/82/77/72/67/62/ 58/55/52mm镜头接圈	
MMB015	80mm无螺纹镜头接圈	MB-T16-C80
MMB016	幻境软胶消光斗	MB-T16-RH
MMB017	幻境无线控制器	MB-TM-WC
MMB018	无线信号放大器	

编号	名称	型号
MMB019	95mm滤镜叠加配件	MB-T16-SCF
MMB020	保护镜安装固定配件	MB-T16-FPF
MMB021	保护镜	MB-T16-FPG
MMB022	4*5.65滤镜卡槽叠加配件	MB-T16-SFT
MMB023	4*5.65滤镜卡槽基础配件	MB-T16-SFH

产品配置(3个套装)





①碳纤维遮摩 2 遮光斗主体



3/95mm圆形滤镜框



给车接圈



⑤简易套装包





2 遮光斗主体















①碳纤维遮磨











K3套装



②遮光斗主体











⑥15mm导轨支撑 ⑦14500电池充电器











@VND专用马达

@14500电池仓

(3) 幻境无线控制器

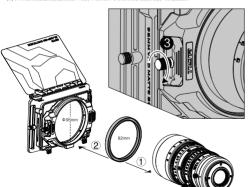
@Nato滑条18mm

07 K1套装使用说明(一)

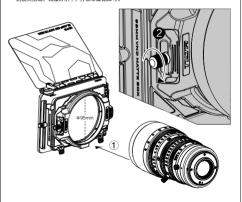
1.开箱后将遮光斗安装到镜头

(1) 根据镜头前面的螺纹尺寸选择合适的镜头接圈(套装标配接圈67mm/72mm/77mm/82mm), 通过镜头前端螺纹口安装到镜头上。再微紧遮光斗右边③旋钮把斗卡到镜头前端完成安装。

(2) 如果没有合适的接圈装配,需要单独购买可联系我们有提供更多规格选配。



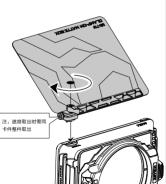
(3) 如果您的镜头是95mm口径,可不需要接圈转接;直接松开遮光斗右边旋钮把斗卡 到镜头前端,调整好水平,拧紧②旋钮即可。



08 K1套装使用说明(二)

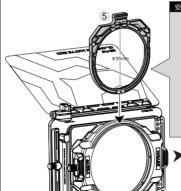
2.碳纤维遮扉的使用

- (1) 遊館的设计是可以连同卡件整体取下的。
- (2) 在没有炫光情况下, 遮扉是可以不需要安装在遮光斗上的, 手扭螺丝可以随意调整遮扉的角度以便挡住镜头前的炫光。



3. 圆形滤镜框(95mm)与圆形滤镜的使用

- (1) K1套装标配了一个Φ95mm规格的圆形滤镜框,按指示⑷拨动右边的卡扣,可安装或取出95mm圆形滤镜框⑤。
- (2) 该卡槽可使用各大厂商推出的95mm圆形系列滤镜,包含有ND减光镜,拉丝/十字/黑柔/白柔等各种效果镜片。
- (3) 全新的95mm标准镜片重量是传统4*5.65镜片的1/4,相比圆形螺纹滤镜,圆形滤镜在视频拍摄中将更加高效 和实用,非常活合视频创作。



安装95mm滤镜片

1.将滤镜片放入底部卡槽①并向上拨动卡扣②。 2.将滤镜片放入卡槽内③, 再松开卡扣完成装配。

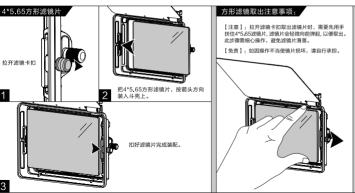
4 拨开保险扣才能取出滤镜框

09 K1套装使用说明(三)

4.滤镜片的使用

遮光罩塑胶罩体可以内嵌一片【4*5.65滤镜片】,遮光斗在不拆斗的情况下也可以从前端安装【圆形螺纹滤镜】。

*如需使用方形镜片叠加:可选购4*5.65滤镜卡槽基础配件(MB-T16-SFH)搭配4*5.65滤镜卡槽叠加配件(MB-T16-SFT); 使用多片圆形滤镜片叠加:可选购95mm滤镜叠加配件(MB-T16-SCF)



圆形螺纹滤镜片

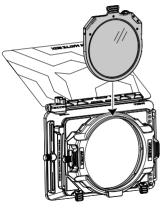


注, 圆形螺纹滤镜片不能与95mm可变ND滤镜组 同时使用, 切勿在安装了圆形螺纹滤镜片后拔插95mm 圆形滤镜框, 以免对圆形螺纹滤镜片造成损坏。

10 K2套装使用说明(一)

1.安装95mm可变ND滤镜组

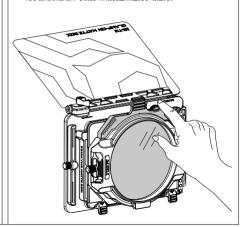
(1) 按照K1步骤安装完后, 插入95mm可变ND滤镜组。



需要取出95mm可变ND滤镜 组时,将安全卡扣拨开,即可 取出。

注:取出95mm可变ND滤镜 组后,需安装回95mm圆形 滤镜框。

(2) 手动控制——95mm可变ND滤镜组右上端有一个齿轮, 用手拨动该齿轮即可改变ND的变量以达到手动控光。



11 K2套装使用说明(二)

2. 电动控制可变ND

(1) 安装原力N电机适配件①

将原力N电机适配件装配在95mm可变ND滤镜组右上角的两个M3螺丝孔位处,确保 适配件的齿轮传动顺畅, 再将2原力N马达安装在转接件上, 并把齿轮衔接上确保可以 传动。

(2) 使用原力N控制手轮/原力M控制手轮/幻境无线控制器配对原力N马达②,都可控制可变ND。

将原力N马达接通电源[使用前一定要进行行程自检(按下CAL进行自检), 自检完成 后方可控制ND]。任稳定器及车拍等移动拍摄时,使用无线控制可变ND,可提高效率 和机动性。)





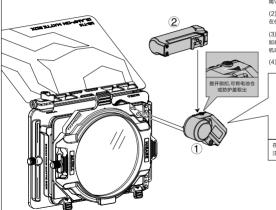


TILTA 原力N控制手轮



TILTA 原力M控制手轮

12 K3套装使用说明



专用马达电动控制可变ND

(1) 安装VND专用马达①

将VND专用马达安装在95mm可变ND速镜组有上角的两个M3螺丝孔位外即可开机。

(2) 装配14500电池仓②

在使用14500电池仓供电,将其插入VND专用马达上,内装14500电池可为马达供电。

(3)使用原力N控制手轮/原力M控制手轮/织境无线控制器④配对马达,都可控制可变ND 如前篇一样配对马达,在稳定器及车拍等移动拍摄时,使用无线控制可变ND,可提高效率和 机动性。

(4) 使用TILTA 专业跟焦控制手柄可直接通过Type-c接口供电和控制马达



在需要使用外置供电时可以通过马达的Type-c接口连接到带供电的设备上(电压5-8.4V), 注,可将防护盖③插入马达上,为VND滤镜组的齿轮和马达起保护作用。



TILTA 幻境无线控制器

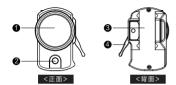


TILTA 原力N控制手轮



TILTA 原力M控制手轮

13 认识幻境无线控制器









<底部>

- ① 滚轮 对细质可无线控制品达
- 2 开关机键

长按:开关机 单击:REC和STBY切换 (在所有菜单里单去可直接返回主晃而)

- NATO滑槽接口
 TOPE AND TOPE AN
- 可将控制器安装在带NATO滑条的设备上
- A NATO锁紧扳手
- ⑤ 显示屏
- 6 CAL键 (1)长按3秒自动检测行程 (2)双击可进入手动行程设置 (3)单击可进行A-B限位设置

← 向上键

双击:向上翻选择+通道 长按:进入主菜单设置 (包括:无线设置/马达设置/功能设置/系统设置) 在菜单设置里,单击为上流功能,双击为确定功能。

- ③ 向下键 双击:向下翻选择一通道 在菜单设置里,单击为下选功能,双击为退回上一层 功能。
- ⑤ USB-C接口

 用于升級固件时使用
- 电池仓口 3.7V 14500 电池 可以不分正负极上电开机

【CAL】键功能说明(一)

[1] 自动CAL功能设置

长按【CAL】键3秒不放, 电机进入自动CAL转动(行程检测)。





[2] A-B限位设置



1.设置A-B限位 [A点]:转动滚轮到合适的A点后, 单击【CAL】镀确认A点。 患击【CAL】镀确认B点后, 患击【CAL】键确认B点。

即A-B限位设置完成。



2.取消A-B限位

设置完成后再次单击 【CAL】键即可取消。

14 幻境无线控制器功能(一)

【CAL】键功能说明(二)

[3] 无限位行程 手动设置说明(此功能,配合使用原力N/原力M马达)

REC 1:+942 H_C_A

1.双击【CAL】键开始手动行程设置,显示(H_C_A) 2.调整<u>镜头跟焦距离最近点</u>, 并装上电机, 转动手轮 再次调整镜头跟焦圈至无限远(电机跟随转动)。

D REC 1:+999 FREE

3.再次双击【CAL】键手动行程设置成功。

无线设置功能(2.4G 蓝牙)(一)

[1] 2.4G模式是设置无线模块的功率



1.长按【向上】键进入菜单选项功能,通过 【向上/下】键选中[无线设置(Wireless) 选项]并双击【向上】键确定。



2.4G 模式

2.46

2.进入到 [2.4G模式]后,双击【向上】键进入到 [2.4G模式(Mode)],再次双击确定。



3.通过【向上/下】键选择[高/中/低 (High/ Medium /Low)]三个不同档位功率, 选中后 双击【向上】键确定即可。

15 幻境无线控制器功能(二)

无线设置功能(2.4G 蓝牙)(二)

[2] 蓝牙模式功能



1.长按【向上】键进入菜单选项功能,通过 【向上/下】键选中[无线设置(Wireless)] 双击【向上】键确定。



2.通过【向上/下】键选中 「蓝牙(BLUE)模式], 再双击 【向上】键确定。



3.双击[开(ON)]进入连接状态 此时蓝牙功能已打开(默认为 关闭状态)。



连接 搜索... 4.进入[连接(Connect)],再次双击【向上】

键讲入搜索中蓝牙模式连接中...

[3] 与BMPCC4K/6K/ 6K PRO相机蓝牙连接并实现录制功能



1.以6K PRO相机为例,打开相机蓝牙功能。







2.在控制器菜单里打开蓝牙功能,调到「连接(Connect)]并双击进入搜索中。

^{*}可使用手机APP(APP使用后续请关注TILTA官网资料更新)与蓝牙连接控制跟焦或录制。或者直接连接相机蓝牙(目前能适用BMPCC4K/6K /6K PRO)。

16 幻境无线控制器功能(三)





3.连接中相机会弹出一个动态密码,对应在控制器上输入密码(密码输入说明:6位密码从左到右,用滚轮前后调转到相对应的数字后,双击【向上】键确定,进入第二位数字输入......输完6位密码后双击【向上】键进入连接)。连接成功后,可以通过控制器上的【开关机】键控制录制(REC和STBY)。

4.连接成功后的相机,(同一台相机)第二次使用时不需要重新输入密码。当控制器要连接另外一台相机时,需要清除蓝牙里的信息,操作方法如下:



①蓝牙菜单里选中【清除】再双击【向上】键。



②相机上的蓝牙菜单上也需点击【清除】,清除完成后, 重新去连接操作方法同上。

17 幻境无线控制器功能(四)

马达设置功能

[1] 电机方向设置



1.长按【向上】键讲入菜单洗项功能,通过【向上/下】键洗中 [马达设置(Motor)], 双击【向上】键进入到[方向(Direction)]。



逆时针

2.再次双击进入后,通过【向上/下】键选择顺时针(CW)或逆时针 (CCW) [根据实际情况选择],选中后双击【向上】键确认完成。

[2] 电机号设置



1.长按【向上】键进入菜单选项功能,通过【向上/下】键选中 [马达设置(Motor)]双击确定, 进入后同上一步骤选中[马达号 (Number)]。





2.再次双击进入后,通过【向上/下】键可选择0/1/2/3/4电机号, 洗中后双击【向上】键确认完成,确定后电机号如图所示显示在 主界面中。

18 幻境无线控制器功能(五)

功能设置

控制器滚轮校准设置



1. 长按【向上】键进入菜单选项功能, 通过【向上/下】 键选中[功能设置(Function)], 双击【向上】键进入。



2.显示[滚轮校准(Wheel Cal)],此时滚轮往<u>逆时针</u>方向转到 最小值,再往<u>顺时针</u>转到最大值, 双击【向上】键确认校准完成。





MB-T16 U1.3

[1] 版本信息查看

长按【向上】键进入菜单选项,通过【向上/下】键选中[系统设置(System)], 双击进入后选中版本信息(NFO)],再双击【向上】键确定查看当前固件版本。

[2] 语言设置





1.长按【向上】键进入菜单选项,通过【向上/下】键选中[系统设置(System)],双击进入后选中[语言设置(Language)]。





系统设置(一)

2.双击确定后通过【向上/下】键可选择中文或English, 选中后双击【向上】键确认完成。

19 幻境无线控制器功能(六)

系统设置(二)

[3] 一键还原设置



1.长按【向上】键进入菜单选项功能,通过【向上/下】键选中 [系统设置(System)],双击进入后选中[一键还原(Restore)]。





 双击确定后通过【向上/下】键可选择[是]或 [否],选中后双击【向上】键确认一键还原完成。

[4] 显示方向设置



1.长按【向上】键进入菜单选项功能,通过【向上/下】键选中 [系统设置(System)],双击进入后选中[显示方向(Disp Flip)]。



2.双击确定后通过【向上/下】键可选择[正常]或 [反向]效果,选中后双击【向上】键确定屏幕方向功能。



固件升级说明

不装电池的情况下,同时按住【向上】键和【向下】键再插入Type一C数据线连接到电脑,将升级文件复制到控制器上,复制完成后会自动开机升级完成。 升级固件下载可通过TILTA官网对应的产品型号下载

20 认识VND专用马达









● 显示屏 M3螺丝 6 0.4M齿轮

锁扣

- 局 向 ト键
- ⑥ 向下键 ♠ Type-C接□
 - 用于升级周件及数据接口时使用。 亦可輸入由压供由(由压5-8,4V) 电流要求在2A以上)

△【向上】键功能说明

诵道设置

双击【向上】键为通道减 双击【向下】键为通道加



自动CAL功能设置

方法一,长按【向上】键3S不放,电机进入自动CAL转动(行程检测)。

N0:2 STBY OH P:533



Calibrate in 3 S



STBY T U:6.7

N0:2 CALin

方法二、长按【向上】键进入运行界面, 再双击【向上】键确定进入自动CAL转动(行程检测)。

NO:2 STBY OH P:533



Calibrate CalKey Run



NO:2 STBY 04 CALin

☑【向下】键功能说明

开关机设置

长按【向下】键进入开/关机

电机号设置

3击【向上/下】键进入电机号选择界面、单击【向上】键为马达号减、单击【向下】键为 马达号加,不操作时10秒时自动退出(或者3击【向上/下】键退出)。









功率说明

可外挂14500电池仓, 电机内部电压升到6.8V左右, Type-C接口同时 也输出6.8V电压。

Type-C输入电压适用5V到8.4V供电使用,电流要求在2A以上。

空载电流: 100MA电流内左右

负载电流(滤镜片):600MA电流内左右



95mm圆形滤镜框 [用干装配95mm滤镜片]



95mm可变ND滤镜组 [双层波镜片,可手动调节 ND(III)



95mmCPL偏振滤镜 「無层波線片,消除或減弱非 金属表面的反光]



95mm双面滤镜框 [可装配双片95mm浏镜片]



可变ND轻便型卡圈 [直接簽配95mm镍头或 可装配配带其他尺寸接圈 的锁头门



80mm无螺纹镜头接圈 [用于无螺纹的80mm镍头]



86/85/82/77/72/67/62/58/55/52mm 镜头接圈 [装配86/85/82/77/72/67/62/58/55/52mm镜头]



14500电池充电器 [用于给14500电池供电]



幻境无线控制器 [用于无线控制ND变量、在 稳定器及车拍等移动拍摄 时提高效率和机动性]



VND专用马达 [电动控制可变ND]



原力N电机适配件 [用于装配原力N马达]



14500电池仓 [用于安装14500电池]



无线信号放大器 15mm导轨支撑 [用于远距离拍摄(如炕拍)] [用于适配15mm导轨系统]



4*5.65速線卡槽 發加配件 [用于装配4*5.65億片]



基础配件 「用于装配4*5.65滤镜卡槽 叠加配件]



95mm波镜疊加配件 [用于多片镜片叠加时使用]



幻境软胶消光斗 [用于消除玻璃反光]



①保护德安装固定配件 ②保护镜









多功能套装包

[用于收納和保护遮光斗]

22 DISCLAIMER AND WARNING

Thank you for choosing Tilta products. This content has been created in regards to your safety, responsibilities, and legal rights as the customer. Please carefully read the text prior to using the product to ensure that you fully understand the correct procedures and safety precautions before use. Tilta technology CO., Ltd. reserves the right to final interpretation of this content and other related information. Potential updates to the product may occur without prior notice. Please visit www.tilta.com for the latest product information.

Please do not carry out any unauthorized repair to Hydra Alien Car Mounting System or change its mechanical structures. Any unauthorized operation may cause damage to the product. Tilta technology Co., Ltd will not take responsibility for any damage that was caused by unauthorized operation.

By using this product, you will be regarded as understanding this disclaimer as well as accepting of all policies and regulations put forth by Tilta technology Co., Ltd.

Tilta is a registered trademark that belongs to Tilta technology Co., Ltd and its subsidiary company. All product and brand names that are mentioned in this content belong to Tilta technology Co., Ltd and its subsidiary company.

Disclaimers and essential information to know before using the VND filter products:

- *Notes: The VND's adjustment range is ND 0.3-2.7. We advise using lenses that have a focal length longer than 35mm. Using the VND at higher density on lenses wider than 24mm will have a vignetting effect. (This cannot be avoided due to the variable ND filter's structure and mechanism.) Please be aware of this before making your purchase.
- *Notes on 4x5.65 filters: Please refer to Page 9 of this user manual for instructions on handling 4x5.65 filters. Please follow instructions to avoid any mishandling of the product.
- *Disclaimers: Tilta is not responsible for any broken filters, vignetting, and/or unusable photo or video footage caused by mishandling of the product.

Filter products maintenance

Optical products are precision instruments which requires protective packing during transportation and storing. Keep the filter products in a dry and cool area. Stay away from water, moisture, and dust. Possible artificial damages include:

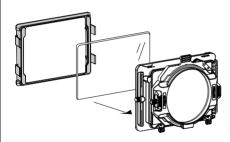
> 2 Improper storing can cause erosion and mold on filter. 4 Damage caused by improper transportation.

- 1) Falling, collision, and scratches during handling.
- Scratches caused by filter stains and improper cleaning.
- (5) Scratches and paint chips caused by handling and contact.
- © Scratches caused by mishandling during packing, unclean or dusty environment, improper cleaning. (Use an air blower to clean up the dust on the filter surface. For any remaining dust or stains, use a lens cleaning wipe with 97% alcohol and wipe the filter in circles. Avoid any secondary damage from the dust.)
- (7) If sea transportation occurs, seal the product and store it in a dry environment. Keep it away from salty air or water.

Damage caused by any of the above mishandling of the product and/or any other unforeseen behaviors are not included in the product's service and warranty. For non-user error related product quality issues, Tilta guarantees exchange and service within 3 months of the purchase.

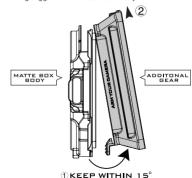
24 NOTE

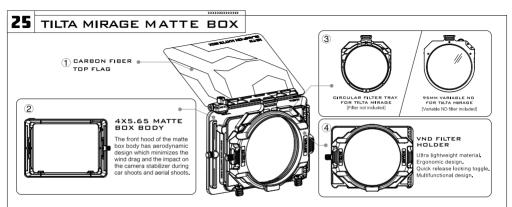
When shooting in high speed moving conditions or extreme weather (such as desert, snow, etc), we highly recommend using [Filter Protector Kit] to protect your lens and filter.



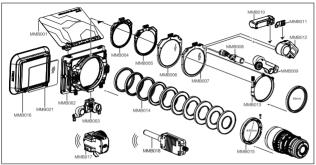
*The top flag(MB-T16-TF) can be removed if shooting under high speed moving conditions.

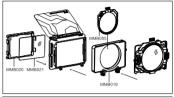
When removing the matte box and its additional gear (such as the flare —free matte box,additional 95mm circular filter tray, and 4X5.65 filter tray backing), please keep the additional piece within 15° of your setup, and slide the additional piece upwards to avoid any damage to the locking toggle on the matte box body.

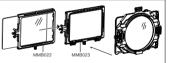




[Tilta Mirage Matte Box] is a matte box that fully satisfies the needs and wants of content creators. The Tilta Mirage adopts a lightweight and modular design. The circular 95mm insert filter tray provides users with the possibility of using lighter weight and lower cost filters. In addition, we have introduced the wireless VND module which can pair with the matte box in order to support your production needs.







NO.	PRODUCT NAME	sku
MMB001	Top Flag for Titla Mirage	MB-T16-TF
MMB002	VND Filter Holder	
MMB003	15mm LWS Support for Tilta Mirage	MB-T16-LS
MMB004	Circular Filter Tray for Tilta Mirage	MB-T16-CFT
MMB005	Dual Circular Filter Tray for Tita Mirage	MB-T16-DCF
MMB006	95mm Polarizer Filter for Tilta Mirage	MB-T16-POLA

NO.	PRODUCT NAME	sku	ı
MMB007	95mm Variable ND for Tifta Mirage	MB-T16-VND	
MMB008	Nucleus Nano Motor Adapter for Tilta Mirage	MB-TM-NMA	
MMB009	Nucleus Nano Motor	WLC-T04	Ī
MMB010	14500 Power Supply for Tilta Mirage Motor	MB-TM-PS	Ī
MMB011	Motor Cover		
MMB012	Wireless Motor for Tilta Mirage	MB-TM-WM	Ī

ZO.	PRODUCT NAME	SKU
MMB013	Lightweight Fifter Clamp-On Adapter	MB-T16-LFA
MMB014	95/85/82/77/72/67/62/58/55/52mm Adapter Ring	
MMB015	80mm Cinema Adapter Ring for Tilta Mirage	MB-T16-C80
MMB016	Rubber Hood for Tilta Mirage	MB-T16-RH
MMB017	Wireless Controller for Tilta Mirage	MB-TM-WC
MMB018	Range Extender for Tilta Mirage	

NO.	PRODUCT NAME	SKU
MMB019	95mm Stackable Circular Filter Tray for Tilta Mirage	MB-T16-SCF
MMB020	Filter Protector Frame for Tilta Mirage	MB-T16-FPF
MMB021	Filter Protector Glass for Tilta Mirage	MB-T16-FPG
MMB022	4x5.65 Stackable Filter Tray for Tilta Mirage	MB-T16-SFT
MMB023	4x5.65 Stackable Filter Tray Holder for Titta Mirage	MB-T16-SFH

AVAILABLE KITS





Top Flag for Tilta Mirage

2 Tilta Mirage

3 Circular Filter Matte Box Body Tray for Tilta Mirage



Adapter Ring

@82/77/72/67mm



®Basic Soft Carrying Case



KIT C



Mirage



Matte Box Body



Tray for Tilta Mirage



ND for Tilta Mirage



582/77/72/67mm Adapter Ring



6 15mm LWS Support for Tilta Mirage



 Nucleus Nano Motor Adapter for Tilta Mirage





Tilta Mirage



①Top Flag for Tilta Mirage



2 Tilta Mirage Matte Box Body





495mm Variable ND for Tilta Mirage



Adapter Ring



714500 Battery for Tilta Mirage Charger



B Filter Pouch



9Advanced Soft Carrying Case for Tilta Mirage



for Tilta mirage



Motor Cover



for Tilta Mirage Motor





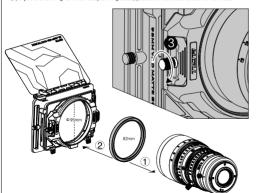
@18mm NATO Rail Attachment

28 KIT A INSTRUCTIONS (PART I.)

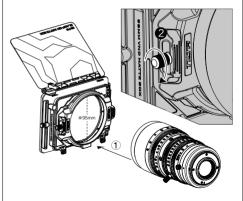
1. Mounting the matte box

(1) Select the adapter ring that fits the front diameter of your lens. (67mm,72mm, 77mm, and 82mm adapter rings are included in the kit.)

(2) If you are looking for other adapter ring sizes, please contact our customer service.



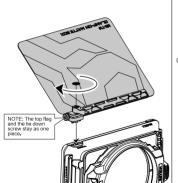
(3) If the front diameter of your lens is 95mm, no adapter ring is needed, Loosen the tie down screw on the right side of the matte box. Place the matte box onto the front of the lens. Adjust the level and tighten the tie down screw.



29 KIT A INSTRUCTIONS (PART II.)

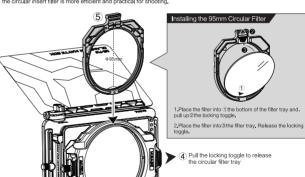
2. Mounting the carbon fiber top flag

- (1) The top flag and the tie down screw stay as one piece. (2) The matte box is not needed when there is no lens flare.
- Adjust the tie down screw to adjust the top flag's angle.



3. Mounting the 95mm circular filter tray and filter

- (1) Kit A comes with a 95mm circular filter tray. Follow the picture below, pull @the locking clip to take out @the 95mm circular filter tray.
- (2) The filter slot is compatible with major brands of 95mm circular filters, such as ND filters, streak filters, star filters, pro-mist, black pro-mist, etc.
- (3) The 95mm circular filter weighs only 1/4 of a traditional 4 x 5.65 filter. Compared to the traditional threaded filter, the circular insert filter is more efficient and practical for shooting.

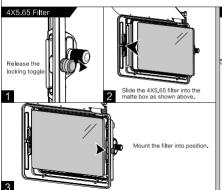


30 KIT A INSTRUCTIONS (PART III.)

4. Installing the filter

4x5.65 filter can be mounted onto the matte box body. The circular threaded filter can be installed from the front without dismounting the matte box.

*If you would like to double up the filter, please purchase the 4x 5.65 filter tray (MB-T16-SFH) backing and the aditional 4x 5.65 filter tray (MB-T16-SFT). To double up the circular filter, please purchase the aditional 95mm circular filter tray (MB-T16-SCF).



Notes on handling the 4x5,65 filters

NOTE: When releasing the filter locking toggle. use one hand to hold onto the 4x5.65 filter. The filter releases forward. Please use extra caution when operating to avoid any filter damage.

DISCLAIMERS: Tilta is not responsible for any user error-caused broken filters.



Circular Threaded Filter

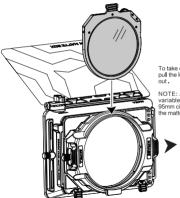


NOTE: The circular threaded filter CANNOT be used with the 95mm variable ND filter at the same time. Please do not insert the 95mm circular filter tray after mounting the circular threaded filter.

31 KIT B INSTRUCTIONS (PART I.)

1. Mounting the 95mm variable ND

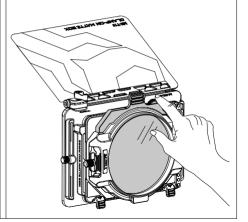
(1)After completing the kit A instructions steps, insert the 95mm variable ND.



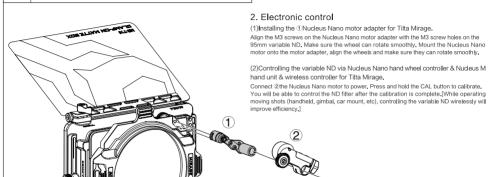
To take out the 95mm variable ND. pull the locking toggle, then take it

NOTE: After taking out 95mm variable ND, please place the 95mm circular filter tray back into the matte box.

(2) Manual control-To control the ND manually, toggle the wheel in the top right corner of the variable ND filter tray.



32 KIT B INSTRUCTIONS (PART II.)







for Tilta Mirage Wheel Controller



Nucleus M Hand Unit

WHEN MAN THE WAY

Controlling the variable ND via wireless motor for Tilta Mirage

(1)Installing (1)the wireless motor for Tilta Mirage.

Align the M3 screws on the wireless motor adapter with the M3 screw holes on the variable ND.

(2)Installing 2the 14500 power supply for Tilta Mirage motor.

To use the 14500 power supply, slide the battery chamber onto the motor.

(3)Controlling the variable ND via Nucleus Nano hand wheel controller & Nucleus M hand unit & @wireless controller for Tilta Mirage.

Please refer to the previous page for pairing instructions. While operating moving shots (handheld, gimbal, car mount, etc), controlling the variable ND wirelessly will improve efficiency.

(4)To control via the Tilta advanced focus handle, connect the handle and the motor via the USB-C ports.



To use external power supply, connect the motor to an external device via the USB-C connector (5-8.4V). NOTE: To protect the wheel gear and the motor, slide 3 the motor cover onto the motor.



Push the locking toggle to release the power supply or





Vireless Controller Nucleus Nano Han for Tita Mirage Wheel Controller

Nucleus Wi Hailu Ollic

34 WIRELESS CONTROLLER OVERVIEW











- A Hand wheel
- For controlling the wireless motor.
- Power button Long hold: power on and off. Single click: Run/stop. (Under any menu settings, single click the nower button to return to the main menu.)
- NATO rail port The wireless controller can be mounted
- on setups with a NATO rail. NATO rail tie down
- Display
- 6 CAL kev
 - (1) Hold for 3s to activate automatic calibration. (2) Double click to activate manual calibration. (3) Singhe ctick to set A-B marks.

Up kev

Double click: Go up in selection + raise channel. Long hold: Enter main menu (including wireless setting, motor setting, function setting, system setting). In menu, single click to go up, double click to

Down key

Double dick: Go down in selection + lower channel. In menu, single click to go down, double click to return to the previous menu.

- USB-C port
- For firmware update.
- Battery chamber

For 14500 battery (3.7V). The battery can be installed in either direction regarding positive and negative.

CAL Key Functions (Part I.)

[1] Auto CAL Setting

Long hold CAL key for 3 seconds, the motor will enter auto CAL and spin.





[2] A-B marks setting



1.Set A-B marks A mark: Rotate the hand wheel to Single dick "CAL." key to confirm B mark: Rotate the hand wheel to Single dick "CAL" key to confirm.

A-B marks are now set,



2.Cancel A-B marks

After AB marks are set, single click CAL key again to cancel

WIRELESS CONTROLLER FUNCTIONS (PART I.)

CAL Key Functions (Part II.)

[3] Free Rotation. Manual Calibration Instructions. (This function is compatible with Nucleus M and Nucleus Nano motors.)

REC 1:+942 H_C_A

key to confirm selection.

 Double click CAL key to initiate manual CAL setting. Display shows as (H C A).

2.Manually rotate the lens focus to close focus, and install the motor to the lens. Then rotate the hand wheel so that the lens is at infinite focus.



3. Double click CAL key again to confirm the free rotation setup.

Wireless Settings (2.4G bluetooth) (Part I.)

[1] 2.4G mode is for wireless frequency setting



1. Long hold "Up" key to enter menu settings. Use "Up" and "Down" keys to toggle through and select Wireless setting, Double click "Up"





2.Double click "Up" key to enter [2.4G mode].



3.Use "Up" and "Down" keys to toggle through and select High / Medium / Low frequency. Double click "Up" key to confirm the selection.

36 WIRELESS CONTROLLER FUNCTIONS (PART II.)

Wireless Settings (2.4G bluetooth) (Part II.)

[2] Bluetooth mode functions



1. Long hold "Up" key to enter menu settings.

Use "Up" and "Down" keys to toggle through

and select Wireless setting, Double click "Up"

key to confirm selection.

2.Use "Up" and "Down" keys to toggle through and select BLUE. Double click "Up" key to confirm selection.



3. Double click ON to enter connection mode.(The bluetooth is turned off by default.)

BLUE

ON



Connect. Search..

4. After entering "Connect", double click "Up" key to enter "Search" mode.

*Use phone APP to connect the Bluetooth devices for lens control or camera run/stop control. Or connect the devices directly via Bluetooth, (As of right now, only applicable to BMPCC 4K/6K PRO.) (After downloading the APP, please follow the updates from Tilta official website.)

[3] Connecting with BMPCC 4K/6K PRO via Bluetooth for Run/Stop Control



1. Take BMPCC 6K PRO camera as an example. Open camera menu and find bluetooth setting.







2. Navigate to Bluetooth setting on the wireless controller, select Connect and double click the Up key to enter searching mode.

WIRELESS CONTROLLER FUNCTIONS (PART III.)





3. During connection, a passcode will be generated from the camera. Enter the passcode on the wireless controller. [Passcode intructions: The passcode contains 6 digits. Use the hand wheel to move between digits, double click "Up" key to confirm and enter the next digit. Enter all 6 digits, then double click "Up" key to connect.]

Once the connection is complete, use the power button on the controller to control REC/STBY.

4. Once the first connection of the device is complete, no passcode will be needed to connect in the future. To use the control with other cameras, clear the bluetooth info. Please see instructions below.



① In the Bluetooth setting, select Clear and double click "Up" key to confirm.



② Clear the Bluetooth info on the camera by selecting Clear All.

Motor Setting

[1] Motor direction





1.Long hold "Up" key to enter menu settings. Use "Up" and "Down" keys to toggle through and select Motor. Double click "Up" key to confirm and enter Direction menu.





2. Double click "Up" key in Direction "Down" keys to togale through and select CW or CCW. Then double click "Up" key to confirm the selection

[2] Motor number





1.Long hold "Up" key to enter menu settings. Use "Up" and "Down" keys to toggle through and select Motor, Double click "Up" key to confirm and enter Number menu.





2.Double click "Up" key in Number.Use "Up" and "Down" keys to toggle through and select a motor number (0/1/2/3/4). Then double click "Up" key to confirm the selection. The selected motor number will appear on the display.

WIRELESS CONTROLLER FUNCTIONS (PART V.)

Function Setting

Calibrating the hand wheel



1.Long hold "Up" key to enter menu settings. Use "Up" and "Down" keys to toggle through and select Function. Double click "Up" key to confirm.



lilhee1 Ca1 Start⇒End

2. When the display shows Wheel Cal, rotate the hand wheel counterclockwise to the minimum end, the rotate the hand wheel to the maximum end, Double click "Up" key to confirm.

to toggle through and select System. Double click "Up" key to enter Info, and double click "Up" key again to look up the current firmware info.







[1] Looking up the version info

Long hold "Up" key to enter menu settings. Use "Up" and "Down" keys

System Setting (Part I.)

[2] Language Setting





1.Long hold "Up" key to enter menu settings. Use "Up" and "Down" keys to toggle through and select System. Double click "Up" key to confirm and select Language.





2.Double click "Up" key in Language "Down" keys to toggle through and select 中文 or English.Then double click "Up" key to confirm the selection.

WIRELESS CONTROLLER FUNCTIONS (PART VI.)

System Setting (Part VI.)

[3] Restore Setting



1.Long hold "Up" key to enter menu settings. Use "Up" and "Down" keys to toggle through and select System. Double click "Up" key to confirm and select Restore.





2. Double click "Up" key in Restore "Down" keys to toggle through YES or NO. Then double click "Up" key to confirm the selection.

[4] Display Directions Setting



1. Long hold "Up" key to enter menu settings. Use "Up" and " Down" keys to togget through and select System, Toggle through and double click "Up" " key to



2. Use "UP" and "Down" keys to toggle through and double click 'Up" key to select Normal or Inverted.



Normal or Inverted

Inverted display

NOTE: When the display is in inverted direction. use "Reset" function to return to normal direction.

select Display.

Firmware Updates

When the battery is not installed, long hold both "Up" and "Down" keys at the same time, and connect the wireless controller to a computer via a USB-C cable. Copy the firmware file to the wireless controller. After the copying is complete, the wireless controller will automatically turn on and complete the firmware update. Please visit the Tilta official website to download firmwares for the products accordingly.

WIRELESS MOTOR FOR TILTA MIRAGE OVERVIEW









- Display M3 screw 0.4M gear
- O Up key Down key
- USB-C port
- Used for firmware update, A Locking toggle data backup, and input power supply (input 5-8 4V, 2A+)

■ Up Key Functions

Channel settings

Double click the Up Key to lower channel Double click the Down Key to raise channel



Auto CAL settings

Method 1: Long hold the Up Key for 3 seconds, the motor will enter auto CAL and spin.











Method 2: Long hold the Up Key to enter the running interface, then double click Up Key to enter auto CAL spin.









▼ Down Key Functions

On/Off setting

Long hold Down key to enter on/off setting.

Motor No. setting

Tripple click the Up or Down Key to enter the motor No, interface, Single click the Up Key to lower the motor No, and single click the Down Key to raise the motor No, if no action is executed in 10 seconds the interface will exit automatically. (Or tripple click the Up or Down Key to exit the interface.)











Notes on Power



The motor can be powered by the external 14500 power supply for Tilta Mirage motor. When the motor's voltage is around 6.8V, the USB-C port can output 6.8V nower.

The USB-C port can input 5~8.4V, 2A.



No-load current: Around 100 mA. Load current (with the VND filter): Around 600 mA.

42 OPTIONAL GEAR LIST



Circular Filter Tray for Tilta Mirage (For holding 95mm circular filters.]



for Tilta Mirage [Dual filters, Supports manual ND adjustment.



for Tilta Mirage (Single filter, Eliminates or reduces glare.)



Dual Circular Filter Tray for Tilta Mirage (For holding two circular filters.]



Lightweight Filter Clamp-on Adapter [Mounts directly onto 95mm diameter lenses or other sizes diameter lenses or other sizes)



Ring for Tilta Mirage (For mounting onto 80mm front diameter lenses.]



86/85/82/77/72/67/62/58/ 55/52mm Adapter Ring [For mounting onto 86/85/82/77/72/ 67/62/58/55/52mm front diameter lenses.)



14500 Battery Charger [For charging 14500 batteries.]





[Controls ND wirelessly during gimbal, car shoots, etc]



Wireless Motor for Tilta Mirage [Electronic control for ND.1



14500 Power Supply for Tilta Mirage Motor [Battery chamber for 14500 battery.]



14500 Power Supply for Tilta Mirage Motor [Battery chamber for 14500 battery.]



Range Extender for Tilta Mirage [For remote control during long distance shoots, such as drone shoot.1



15mm LWS Support for Tilta Mirage [For mounting 15mm rods.]



4x5.65 Stackable Filter Tray for Tilta Mirage [For holding a 4X5.65 Filter.]



4x5.65 Stackable Filter Tray Holder for Tita Mirage [For mounting an additional 4X5.65 Filter Trav.1



95mm Stackable Circular Filter Tray for Tilta Mirage [Holds additional circular filter.1



Rubber Hood for Tilta Mirage [Fliminate plass flare]



ditons.1

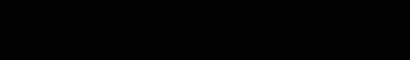
(T) Filter Protector Frame for Tilta Mirage 2 Filter Protector Glass for Tilta Mirage Protector for lenses and filters during high speed moving con-



Filter Pouch (Organizer for the filters)



Advanced Soft Carrying Case for Tilta Mirage [Organizer for the matte box.]



MIRAGE MOTORIZED VND MATTE BOX