

ROBOMASTER

17mm Fluorescent Projectile Charger

User Manual v1.0

2020.02



Disclaimer

Thank you for purchasing the ROBOMASTER™ 17mm Fluorescent Projectile Charger (hereinafter referred to as "Projectile Charger"). Read this entire document and all safe and lawful practices DJI™ provided carefully before use. Failure to read and follow instructions and warnings may result in serious injury to yourself or others, damage to your DJI product, or damage to other objects in the vicinity. By using this product, you hereby signify that you have read this disclaimer and warning carefully and that you understand and agree to abide by the terms and conditions herein. You agree that you are solely responsible for your own conduct while using this product, and for any consequences thereof. DJI accepts no liability for damage, injury, or any legal responsibility incurred directly or indirectly from the use of this product.

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Warning

1. Make sure to install and use the product in strict accordance with the specifications listed in this document, including those related to voltage and temperature. Failure to do so may reduce the product service life or even lead to permanent damage.
2. If you detect any flames, smoke, strange smells, or other abnormalities, disconnect the Projectile Charger from the power source immediately.
3. DO NOT damage the heat-shrink tubing. Otherwise, foreign objects may fall inside and cause the Projectile Charger to short circuit.
4. Avoid extended periods of exposure to the UV light panel.

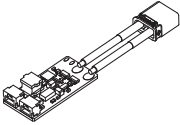
Introduction

The RoboMaster 17mm Fluorescent Projectile Charger can be attached to the RoboMaster 17mm Projectile Launching Mechanism to achieve a glowing effect. By using specific ultraviolet light wavelengths, the Projectile Charger illuminates the fluorescent material of the projectiles. Quick to assemble and disassemble, the Projectile Charger boasts a wide

range of voltage inputs, a high-precision constant output LED driver, and a UV panel and heat sink with high thermal conductivity. The Projectile Charger also features hot-swap support, anti-reverse connection, and anti-overvoltage protection.

In the Box

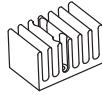
LED Driver × 1



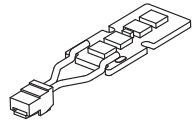
Screws × 6



Heat Sink × 2



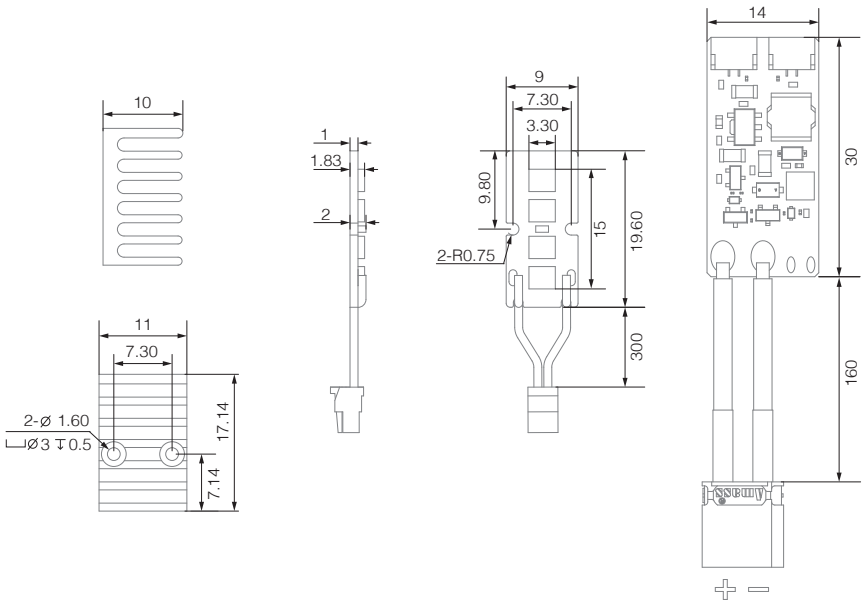
UV Light Panel × 2



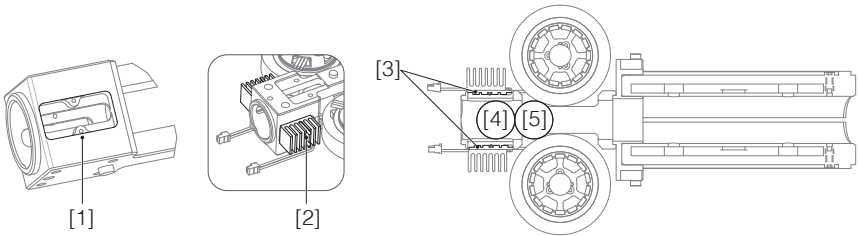
Mounting the Projectile Charger

Refer to the dimensions in the figure below when mounting the Projectile Charger.

Unit: mm



1. The slot structure is not included and must be provided by the user. Make sure that the mounted UV light panel covers the standby projectile next to the launching projectile.
2. Mount the UV light panel to the slot structure. If the slot structure is metallic, make sure to maximize the surface area that is in contact with the light panel as much as possible and that the screw is tightly fastened to allow for optimal conduction. If the slot structure is non-metallic, make sure it is properly mounted with heat sinks. Note that non-metallic slot structures may melt at high temperatures.
3. Connect the UV light panel with the LED driver and then connect the XT30 port with the power supply.

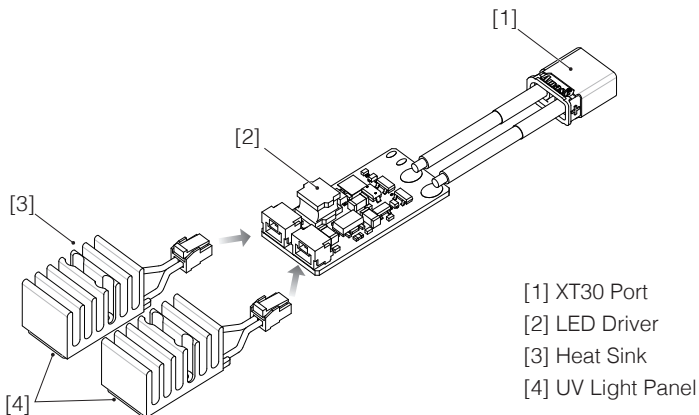


[1] Diagram of Slot
[2] Heat Sink

[3] UV Light Panel
[4] Standby Projectile

[5] Launching Projectile

Connection



[1] XT30 Port
[2] LED Driver
[3] Heat Sink
[4] UV Light Panel

Specifications

Input Voltage for LED Driver	9-28 V
Constant Output Current for LED Driver	300 mA
Glow Waveband for UV Light Panel	390-410 nm
Rated Power for UV Light Panel	1 W x 2
Weight	18 g
Operating Temperature Range	0° to 55° C (32° to 131° F)

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