

# LORTECH PLYWOOD WONDER Mk 1

## 000 Overview & Part List

**WIP**

### Overview

FPV custom built racing / acrobatic drone with future support for HD recording (Mobius 2, GoPro Hero4 Session or similar self contained recording system).

### Part list

| Item        | Price GBP | Name   |
|-------------|-----------|--|
| Camera      | 5,5       | 600TVL 100 Degree 1/4 Cmos 2.8mm Lens FPV Camera PAL/NTSC 3.3-5V                                   |
| ESCs        | 23,82     | 4 PCS Racerstar RS30A Lite 30A Blheli_S 16.5 BB1 2-4S Brushless ESC Support Dshot150 Dshot300      |
| FC          | 18,26     | 30.5*30.5mm Betaflight Omnibus STM32F3 F3 Pro Flight Controller Built-in OSD BEC Current sensor    |
| PDB         | 3,22      | Matek Systems PDB-XT60 W/ BEC 5V & 12V 2oz Copper For RC Multirotors                               |
| Motors      | 22,59     | 4X Racerstar Racing Edition 2205 BR2205 2300KV 2-4S Brushless Motor 2 CW & 2 CCW For QAV250 ZMR250 |
| Props       | 5,15      | 10 Pairs Racerstar V2 5048 5x4.8x3 3 Blade Racing Propeller 5.0mm Mounting Hole for FPV Racer      |
| Radio Set   | 34        | FlySky FS-i6 2.4G 6CH AFHDS RC Transmitter With FS-IA6 Receiver                                    |
| Battery x 2 | 26        | Turnigy 2200mAh 3S 40C Lipo Pack   |
| Headset     | 32        | Eachine VR-007 Pro VR007 5.8G 40CH FPV Goggles 4.3 Inch Video Headset With 3.7V 1600mAh Battery    |
| Charger     | 25        | Turnigy Accucel-6 80W 10A Balancer/Charger LiHV Capable  |

### Links

[https://www.banggood.com/600TVL-100-Degree-14-Cmos-2\\_8mm-Lens-FPV-Camera-PALNTSC-3\\_3-5V-p-1092326.html?rmmds=cart\\_middle\\_products](https://www.banggood.com/600TVL-100-Degree-14-Cmos-2_8mm-Lens-FPV-Camera-PALNTSC-3_3-5V-p-1092326.html?rmmds=cart_middle_products)

[https://www.banggood.com/4-PCS-Racerstar-RS30A-Lite-30A-Blheli\\_S-BB1-2-4S-Brushless-ESC-for-FPV-Racer-p-1101000.html?rmmds=cart\\_middle\\_products](https://www.banggood.com/4-PCS-Racerstar-RS30A-Lite-30A-Blheli_S-BB1-2-4S-Brushless-ESC-for-FPV-Racer-p-1101000.html?rmmds=cart_middle_products)

[https://www.banggood.com/30\\_530\\_5mm-Betaflight-Omnibus-STM32F3-F3-Pro-Flight-Controller-Built-in-OSD-BEC-Current-sensor-p-1156615.html?rmmds=cart\\_middle\\_products](https://www.banggood.com/30_530_5mm-Betaflight-Omnibus-STM32F3-F3-Pro-Flight-Controller-Built-in-OSD-BEC-Current-sensor-p-1156615.html?rmmds=cart_middle_products)

[https://www.banggood.com/Matek-Systems-PDB-XT60-W-BEC-5V-12V-2oz-Copper-For-RC-Multirotors-p-1049051.html?utm\\_source=Youtube&utm\\_medium=cusku&utm\\_campaign=5635792\\_1049051&utm\\_content=1081&p=CG24181822629201506N](https://www.banggood.com/Matek-Systems-PDB-XT60-W-BEC-5V-12V-2oz-Copper-For-RC-Multirotors-p-1049051.html?utm_source=Youtube&utm_medium=cusku&utm_campaign=5635792_1049051&utm_content=1081&p=CG24181822629201506N)

[https://www.banggood.com/4X-Racerstar-2205-BR2205-2300KV-2-4S-Brushless-Motor-2-CW-2-CCW-For-QAV250-ZMR250-260-Multirotor-p-1066837.html?rmmds=cart\\_middle\\_products#](https://www.banggood.com/4X-Racerstar-2205-BR2205-2300KV-2-4S-Brushless-Motor-2-CW-2-CCW-For-QAV250-ZMR250-260-Multirotor-p-1066837.html?rmmds=cart_middle_products#)

[https://www.banggood.com/10-Pairs-Racerstar-V2-5048-5x4\\_8x3-3-Blade-Racing-Propeller-5\\_0mm-Mounting-Hole-for-FPV-Racer-p-1153885.html?rmmds=cart\\_middle\\_products](https://www.banggood.com/10-Pairs-Racerstar-V2-5048-5x4_8x3-3-Blade-Racing-Propeller-5_0mm-Mounting-Hole-for-FPV-Racer-p-1153885.html?rmmds=cart_middle_products)

[https://www.banggood.com/FlySky-FS-i6-2\\_4G-6CH-AFHDS-RC-Transmitter-With-FS-IA6-Receiver-p-922606.html?rmmds=detail-left-hotproducts](https://www.banggood.com/FlySky-FS-i6-2_4G-6CH-AFHDS-RC-Transmitter-With-FS-IA6-Receiver-p-922606.html?rmmds=detail-left-hotproducts)

[https://hobbyking.com/en\\_us/turnigy-2200mah-3s-40c-lipo-pack.html?\\_\\_store=en\\_us](https://hobbyking.com/en_us/turnigy-2200mah-3s-40c-lipo-pack.html?__store=en_us)

[https://www.banggood.com/Eachine-VR-007-Pro-VR007-5\\_8G-40CH-HD-FPV-Goggles-4\\_3-Inch-Video-Headset-With-3\\_7V-1600mAh-Battery-p-1134154.html?rmmds=search](https://www.banggood.com/Eachine-VR-007-Pro-VR007-5_8G-40CH-HD-FPV-Goggles-4_3-Inch-Video-Headset-With-3_7V-1600mAh-Battery-p-1134154.html?rmmds=search)

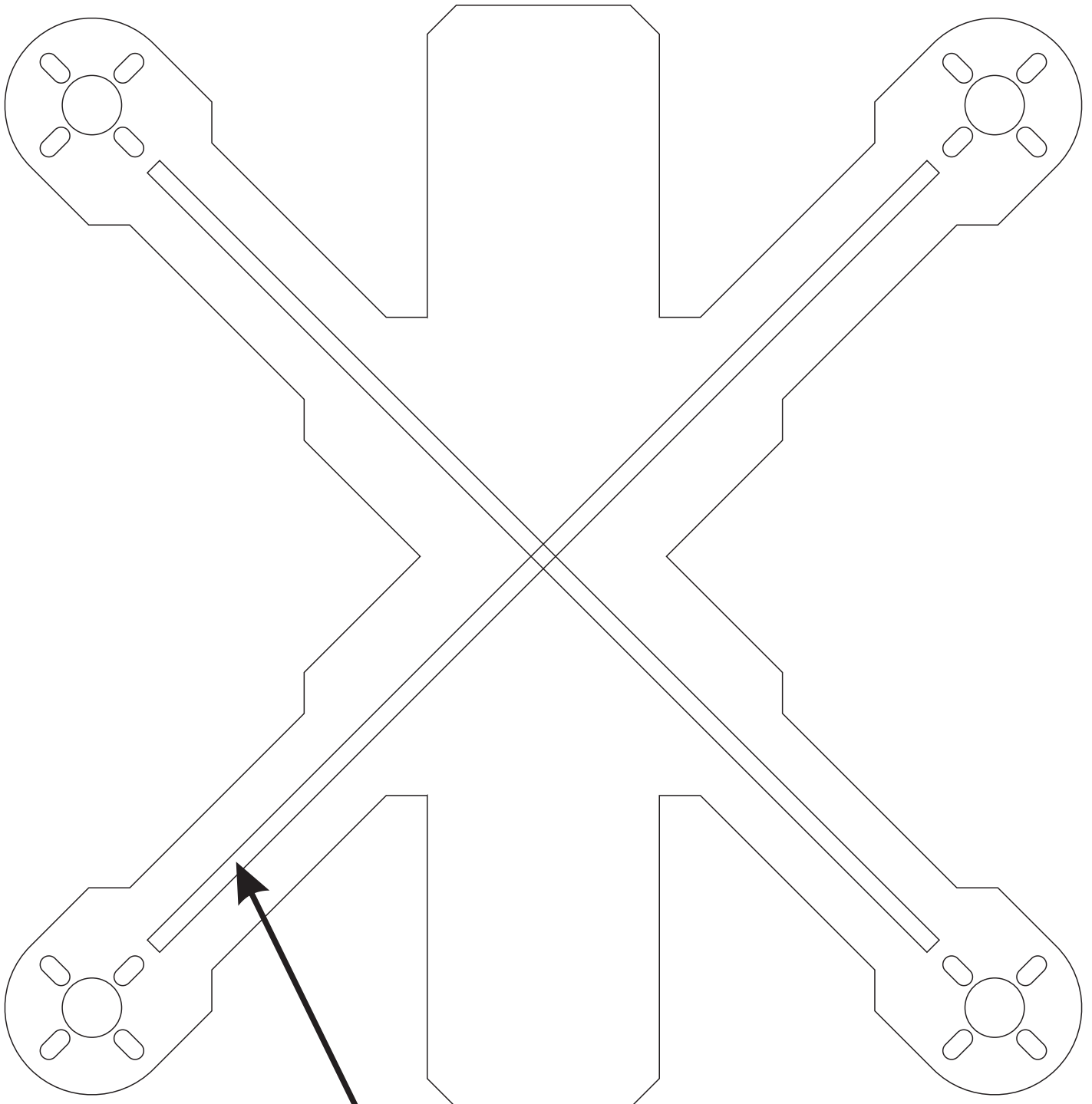
[https://hobbyking.com/en\\_us/turnigy-accucel-6-80w-10a-balancer-charger-lihv-capable.html](https://hobbyking.com/en_us/turnigy-accucel-6-80w-10a-balancer-charger-lihv-capable.html)

# LORTECH PLYWOOD WONDER Mk 1

## 001 Single piece bottom plate

**WIP**

Main plate  
3mm lasercut plywood (0,2g / cm<sup>2</sup>)

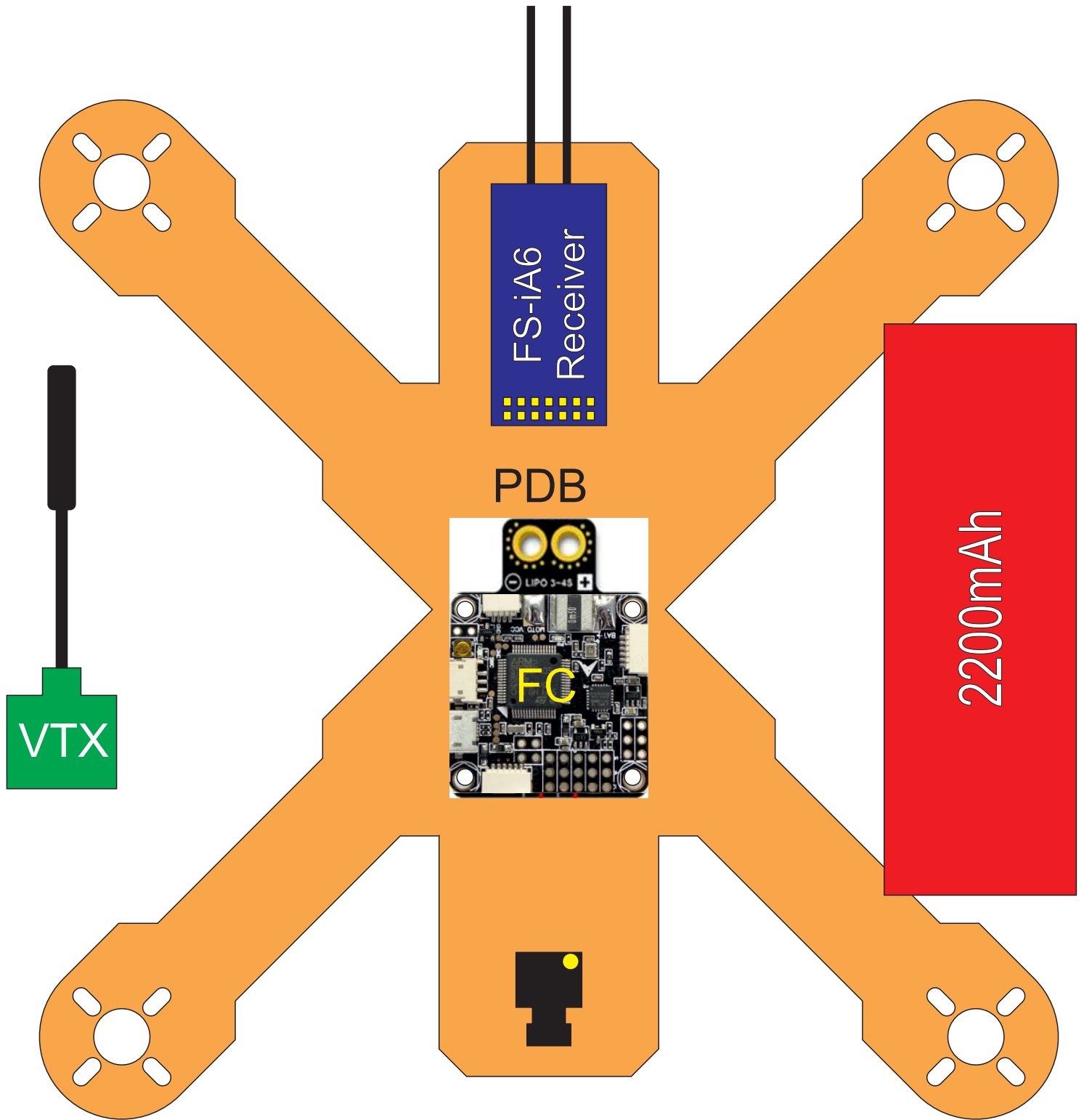


Underside 5 x 3 x 180mm  
Reinforcement arm with landing gear

# LORTECH PLYWOOD WONDER Mk 1

## 002 Instrument placement

WIP



Battery, VTX and HD cam above on the 2nd plate

# LORTECH PLYWOOD WONDER Mk 1

00X Part sizes

**WIP**

