

Budget For Drone Construction

Item	Price (R)	Mass(g)	Import?	Purchase Link:	Oder Qty.	Total Cost	Import + 10%
Body/Frame							
Source One (5")	575	123.5	Yes	https://www.team-blacksheep.com/produ	2	1150	1265
Drive							
Propellers (Set of 4): Gemfan 51466 MCK V2 RACING PROPS (3.6")	60	16.8	Yes	https://www.gfprops.com/product/index/	3	180	198
Propellers (Set of 4 to test): Gemfan Hulkie 5055s-3 (3.5")	60		Yes	https://www.gfprops.com/products/gemf	2	120	132
Propellers (Set of 4 to test): Gemfan Hurricane 51499-3 (4.2")	60		Yes	https://www.gfprops.com/product/index/	2	120	132
Propellers (Set of 4 to test): Gemfan Hurricane 51433-3 for Freestyle (3.5")	60		Yes	https://www.gfprops.com/product/index/	2	120	132
Propellers (Set of 4 to test): Gemfan Windancer 5042-3 (3.4")	60		Yes	https://www.gfprops.com/product/index/	2	120	132
Propellers (Set of 4 to test): Gemfan Hurricane 51455-4 (3.86" _4s)	60		Yes	https://www.gfprops.com/product/index/	2	120	132
Propellers (Set of 4 to test): Gemfan Flash 5152-2 (4.2" _2s)	60		Yes	https://www.gfprops.com/products/gemf	2	120	132
Motors - iFlight R5 2207 2050KV FPV motor							
US\$ 24 (each) x 4 = US\$ 96; Mass = 34.6g x4	1900	139	Yes	https://shop.iflight.com/R5-2207-2050KV-4	6	2850	3135
Electronic Speed Controller (ESC) - Holybro Tekko32 F4 4in1 60A ESC	1540	16	Yes	https://holybro.com/collections/fpv-esc/pr	1	2310	2541
Electronics							
Battery - X-Power 6S1P 3800MAH35C LiPo	1720	570	TBC- Call retailer (CPT)	https://www.cerebus.co.za/electronics/ba	2	3440	3440
Flight Controller/ Autopilot: Holybro Pixhawk 6C Mini (US\$ 207) _ (PM02 V3 Power Module [20g])	4000	60	Yes	https://holybro.com/collections/autopilot-	1	4000	4400
Microcontroller - Khadas VIM4 (Active cooling kit with NPU) (US\$209)	4000	50	Yes	https://www.khadas.com/product-page/vi	1	4000	4400
Power to MCU: BLITZ BEC Module	140	2	Yes	https://shop.iflight.com/electronics-cat27/	2	280	308
Battery Charger: EV-PEAK C1-XR Balance Charger (Same as lab)	1000	N/A	No	https://www.rc-king.co.za/chargers/2278-4	1	1000	1000
XT60 Charge Cable	75	N/A	No	https://www.rc-king.co.za/charger-accesso	1	75	75
Coms Antenna (Only Temporary)							
Sensors							
Intel Realsense Depth Camera D435i	6355	70	Yes	https://store.intelrealsense.com/buy-intel-	1	6355	6990.5
Ouster OSO-64 LiDAR(450g)			Yes				
Flir Blackfly S (72g)			Yes				
Total Mass: 1047.3							
Excl.Sensors: 977.3							
Drone, Sensors and Charger 28544.5							
Excl. Charger 20479							
Drone Only Excl. VIM4 16079							