Item name	Description	Price (\$)	Weight (g)	Link
Motors				
iFlight Xing 2814 motors 880 kv	3 - 6s Lipo Max current drawn = 51 A Please buy 2 packs of 2 motors per drone	\$147.98	372.00	amazon.com/iFlight-880KV-Brushless-Ra
9x5x3 propellors	Will provide 9444g of thrust at maximum throttle with Will only consume 5 A at 50% throttle (hover)	\$23.99	69.60	https://www.amazon.com/HQProp-Macro
ESC				
Mamba F60PRO 60A BL_32 3-6S 4in	Capable of upto 60A 3s - 6s lipo DShot 1200	\$69.29	15.00	https://www.banggood.com/30_5x30_
Flight Controller				
Mamba F405 DJI Flight controller	Compatible with iNAV Compatible with DJI	\$21.99	7.50	https://www.banggood.com/30_5x30_5m
Frame				
Holybro S500 frame	Spacious Chassis for Jetson Nano and other electro Supports up to 10 inch propellors Similar frame to VLC Drone 2 but more spacious	\$92.15	470.00	https://usa.banggood.com/Holybro-X
Battery				
HRB 6s Lipo 6000 mAH	Motors and ESCs are capable of handling 6s and it will greatly improve flight time	\$83.99	809.00	https://www.amazon.com/HRB-50C-1000
Lipo Charger				
6s capable lipo charger	Only needs to be purchased once for both drones	\$59.99	0.00	https://www.amazon.com/Tenergy-Digital
XT90 connectors	Necessary for running higher voltage Only need to be purchased once	\$10.69	2.00	https://www.amazon.com/Housing-Conne
GPS Module				

Holybro Micro M8N GPS Module	GPS and Compass I2C for Compass UART for GPS 5v input	\$73.98	20.60	https://www.getfpv.com/holybro-micro-m8
GPS Mount				
Aluminum GPS Folding Antenna	16.5 cm	\$15.60	10.00	https://www.amazon.com/Aluminum-Fold
Additional Cameras OPTIONAL				
GoPro Max	360 Degree Camera	\$399.00	163.00	https://gopro.com/en/us/shop/cameras/m
Raspberri Pi Camera		\$22.99	5.00	amazon.com/Raspberry-Pi-Camera-Mod
DJI Digital Option				
FPV System, Transmitter, Receiver				
DJI Digital FPV System	VTX and Receiver integrated unit 8 Channels for radio and video signal Includes Camera, Video Transmitter, FPV Goggles, F	\$819.00	49.70	https://store.dji.com/product/dji-digital-fpv
Analog Option - Includes everything	below			
Camera				
Foxeer FPV Razer Mini	\$25.99 4:3/16:9 aspect ratio switchable 4.5 - 25 V input 21.8 mm width (will fit frame which recommends 22 r Supports on screen display 12 g	\$25.99	12.00	https://www.amazon.com/Foxeer-Camera
Video transmitter (VTX)				
AKK X2-Ultimate	\$22.99 Smart Audio (can be used to change settings from O Up to 1000mW for longer distance flight 7 - 26 V input Supports Betaflight Supports OSD 6.8 g 5 bands 37 channels	\$22.99	6.80	https://www.amazon.com/AKK-X2-Ultima
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Antenna				

Foxeer RHCP RX/TX Antennas	\$21.99 Right hand polarized SMA connector 5.8G 2 Antennas	\$21.99	7.50	https://www.amazon.com/Foxeer-Ant
Video reciever				
Eachine Monitor Receiver Combo	\$82.90 Built in receiver 5.8G 40 ch 800*480 resolution 7 inch screen	\$82.90	0.00	https://www.banggood.com/Eachine-LCE
FPV Monitor Mount	For mounting the FPV monitor to Transmitter	\$12.95	0.00	https://www.amazon.com/FPV-Monitor-S
RPSMA Male to SMA Female adapter		\$5.50	0.00	https://www.amazon.com/DHT-Electronic
Receiver				
FrSky XM+ receiver	\$15.59 1.6 g 16 channels Sbus	\$15.99	1.60	https://www.amazon.com/FrSky-Receive
Transmitter				
FrSky Trananis Q X7	\$129.99 16 channels 2.4G Voltage 6v - 15v Compatible with FrSky X series receivers White color in stock	\$129.99	0.00	https://www.amazon.com/FrSky-Taranis-
	Approximate Total Weight with DJI		2021.3	grams
	Approximate Total Weight with Analog		1971.6	grams
	Total Cost DJI	\$1,840.64		
	Total Cost Analog	\$1,339.94		