

Scout Drone: Your AI Carrier Pigeon: Bill of materials

Concept assembly guide derived from the staged build plan. Not a certified engineering drawing. Prices are estimates (Oct 2026); nothing here is a purchase.

ID	Stage	Part	Qty	Price	Buy link
S1	Stage 1	Light 7-inch LR carbon frame (Chimera7 class)	1	~\$40	Amazon search
S2	Stage 1	2806.5/2807 1300KV 6S motors	4	~\$70	Amazon search
S3	Stage 1	7-inch bi-blade LR props, 3 sets	1	~\$12	Amazon search
S4	Stage 1	SpeedyBee F405 V4 BLS 60A stack	1	\$76	SpeedyBee
S5	Stage 1	Matek M10Q-5883 GPS/compass	1	\$43	Boulder MultiRotor (Matek)
S6	Stage 1	Raspberry Pi Zero 2 W + 64 GB microSD + 5V 3A BEC	1	~\$33	Raspberry Pi
S7	Stage 1	Pi Camera Module 3 in TPU pod	1	\$25	Raspberry Pi
S8	Stage 1	RadioMaster Pocket ELRS + BetaFPV ELRS Lite RX (override)	1	~\$80	Amazon search
S9	Stage 1	6S1P 21700 Li-ion pack (Molicel P45B), XT60	1	~\$65	Amazon search
S10	Stage 1	Remote ID broadcast module	1	~\$35	Amazon search
S11	Stage 1	Misc: silicone wire, XT60, straps, standoffs, strobe	1	~\$15	Amazon search
S12	Stage 2	Radxa Zero 3W (detection upgrade)	1	\$28-43	Amazon search
S13	Stage 3	Spare 6S pack	1	~\$30	Amazon search
S14	Stage 4	Waveshare SIM7080G Cat-M HAT (cellular add-on)	1	\$31.99	Waveshare
S15	Stage 4	Pololu ideal diode (brain hot-swap battery)	1	~\$45	Pololu
S16	Optional	InfiRay P2 Pro thermal camera (optional)	1	\$249	InfiRay

Links marked 'Amazon search' open a search for that exact part spec (no specific listing chosen yet, no affiliate tag). Vendor links come from the existing build brochures.