

Flight Payload Analysis

Flight Manifest	Mass (g)	Weight (lbf)	Flying	Mass (g)	Weight (lbs)	Tracking Call Signs	Cadence
Jeff Cut down, flight ready	162	0.4	x	5682	12.5	KE7ROS RATS1	1 min
Jeff Cut down, flight ready	162	0.4	x			KD7ICN RATS2	1 min
Small orange Parachute 60 inches	393	0.9		Support Systems Mass		MT1000	
Large orang/white parachute, 134 inches	956	2.1	x	1280	2.8		
Frame, DJI Osmo Action cameras, batts, violin	1800	4.0	x				
Each still camera is approx	250	0.6		Payload Mass			
Canon grey GLPH100HS (no batt, only coupler)	128	0.3		4402	9.7		
Canon red GLPH110HS (batt = 13g)	134	0.3					
External battery pack with 3 AAs and coupler	75	0.2		Max Avail. Mass			
External battery pack with 3 AAs w/o coupler	64	0.1		1053	2.3		
GoPro knock off ThiEye i60e in case	116	0.3					
Kodak 360° Pixpro SP360 4k, pair in housing	483	1.1					
MiniBeacon, no housing	148	0.33		Ballast 150%			
ozonesonde/radiosonde	995	2.2	x	8523	18.8		
AtmoSniffer, full 5200mAh flight battery	1700	3.7					
AtmoSniffer, 2800 mAh battery	1285	2.8					
MSA in Rubbermaid Housing	398	0.9	x				
MiniMSA no battery or housing	114	0.3					
RATS, standard, 8 AA, Whip Ant.	397	0.9					
RATS, MT1000, 3AA, Whip Ant.	198	0.4	x				
RATS, LiPo, Whip Ant.	437	1.0					
RATS, standard, 8 AA, dipole ant	392	0.9					
RATS, MT1000, 3AA, dipole ant.	189	0.4	x				
RATS, LiPo, dipole ant.	430	0.9					
LoJack beacon	22	0.05	x				
Hess radiation detector	141	0.3					
GoPro Max 360 video camera w/ ext batt	800	1.8	x				
BYU-I Six GoPro session array "rig", w/ ext batt	1563	3.4					
BYU-I something about "gas cords/batt."	703	1.5					
Single Session GoPro in foam housing	339	0.7					
Two RATS with tape, batteries, etc.	790	1.7					
		0.0					

conversion table	
Pounds	g
1	455
2	909
3	1364
4	1818
5	2273
6	2727
7	3182
8	3636
9	4091
10	4545
11	5000
12	5455