

LongShot 4 Specifications			Smile DLG Specifications			Falcon DLG Specifications		
Wing span	1.5 m	59 in	Wing span	1.5 m	59 in	Wing span	1.5 m	59 in
Wing area	22.0 dm <sup>2</sup>	341 sq in	Wing area	19.2 dm <sup>2</sup>	298 sq in	Wing area	19.0 dm <sup>2</sup>	295 sq in
Length	113 cm	44.5 in	Length	112 cm	44.1 in	Length	104 cm	40.7 in
Flying weight from	278 g	9.8 oz	Flying weight from	235 g	8.3 oz	Flying weight from	218 g	7.7 oz
Wing loading	12.6 g/dm <sup>2</sup>	4.1 oz/sq ft	Wing loading	12.3 g/dm <sup>2</sup>	4.0 oz/sq ft	Wing loading	11.5 g/dm <sup>2</sup>	3.8 oz/sq ft
Aspect ratio	10.1		Aspect ratio	11.6		Aspect ratio	11.8	
Wing airfoil	AG series		Wing airfoil	Proprietary		Wing airfoil	GT Synergy2 mod	
Dihedral angle	6.0°		Dihedral angle	5.5°		Dihedral angle	6.0°	
Centre of Gravity	78-80 mm from wing leading edge		Centre of Gravity	73-78 mm from wing leading edge		Centre of Gravity	63 mm from wing leading edge	
Controls	Rudder, elevator, ailerons		Controls	Rudder, elevator, ailerons		Controls	Rudder, elevator, ailerons	
LongShot 4 Typical Weights			Smile DLG Typical Weights			Falcon DLG Typical Weights		
Pod Boom	30.0 g 17.5 g	1.1 oz 0.6 oz	Fuselage	32.0 g	1.1 oz	Fuselage	37.0 g	1.31 oz

Wings	136.0 g	4.8 oz	Wings	109.0 g	3.8 oz	Wing (light)	88.0 g	3.10 oz
Fin	8.0 g	0.3 oz	Fin	6.6 g	0.2 oz	Fin	6.5 g	0.23 oz
Tailplane	8.5 g	0.3 oz	Tailplane	7.2 g	0.3 oz	Tailplane	5.5 g	0.19 oz
Accessories	18.0 g	0.6 oz	Accessories	16.5 g	0.6 oz	Accessories	15.0 g	0.53 oz
Total structure	218.0 g	7.7 oz	Total structure	171.3 g	6.0 oz	Total structure	152.0 g	5.36 oz
Glue etc	6.0 g	0.2 oz	Glue etc	5.0 g	0.2 oz	Glue mounts etc	2.0 g	0.07 oz
Receiver	6.0 g	0.2 oz	Receiver	5.0 g	0.2 oz	Receiver	5.0 g	0.18 oz
Tail servos	10.0 g	0.4 oz	Tail servos	16.0 g	0.6 oz	Tail servos	17.0 g	0.60 oz
Wing servos	10.0 g	0.4 oz	Wing servos	16.0 g	0.6 oz	Wing servos	17.0 g	0.60 oz
Battery	22.0 g	0.8 oz	Battery	22.0 g	0.8 oz	Battery	20.0 g	0.71 oz
Wiring	6.0 g	0.2 oz				Noseweight	5.0 g	0.18 oz
Flying weight	278.0 g	9.8 oz	Flying weight from	235.3 g	8.3 oz	Flying weight approx	218 g	7.7 oz
			Note the weights above are not 100% accurate - the current batch of models weigh more.			The above weights can be improved on with careful equipment selection. See the photo of the 204g Falcon taken from the RCGroups thread. The builder believes he could have got it down to 200g.		
Recommended R/C			Recommended RC			Recommended RC		

All servos (4)	Ripmax SD100, Blue Bird BMS- 101DMG, Blue Bird BMS- 101HV, KST X06, KST X08, MKS DS6100, MKS HV6100, Blue Bird BMS-125		All servos	KST X06N, KST X08N, MKS DS65K, MKS DS75K-N, MKS HV75K-N, MKS DS6100, MKS HV6100, Blue Bird BMS-126WV		All servos	KST X08, MKS DS75K, MKS HV75K	
-------------------	---	--	------------	--	--	------------	-------------------------------------	--

Receiver	4/5 channel rx to suit your transmitter, eg Spectrum AR6610T, Lemon LM0034, Futaba R6004FF, FrSky X4R, Orange DSM2 compatible, Jeti Duplex R5, Multiplex Mlink RX-6 Light & RX-5 Light					Receiver (max size approx 60mm x 25mm x 12mm)	4/5 channel rx to match your transmitter, eg FrSky X4R, Spectrum AR6610T, Lemon LM0034, Futaba 6008HS*, Futaba R6106HFC *case removed	
----------	--	--	--	--	--	---	---	--

Battery	Radiant 1S 500 mA, Radiant 1S 600 mAh LiPo, Radiant 1S 700 mAh LiPo, HyperLiPo 2S 300 mAh LiPo					Power	Tatu 1S 350 mAh, HyperLiPo 2S 300 mAh LiPo, Radiant 1S 600 mAh	
			Smile Control Throws & Mixes					
			Rudder	15 mm each way				
			Elevator	7 mm up / 7 mm down				
			Ailerons	10 mm up / 8 mm down				

			<i>Recommended snap-flap (elevator-&gt;camber) mix.</i>					
			Full up elevator gives 5mm increased flaperon camber					
			<i>Recommended flaperon settings. Down=Flap TE down.</i>					
			Launch preset	1 mm down				
			Speed	1 mm up (small ail>rud mix)				

			Cruise	0 mm (a little more ail>rud mix)				
			Slow cruise and active thermal	1 mm down (more ail>rud mix)				
			Minimum sink	3 mm to 4 mm down (Slow cruise + slider camber)				
			Minimum sink	3 mm to 4 mm down (Slow cruise + slider camber)				
			Landing mode	as much down as possible				

			Receiver	4/5 channel rx to match your transmitter, eg FrSky X4R, Spectrum AR6610T, Lemon LM0034, Futaba 6008HS*, Futaba R6106HFC *case removed				
			Power	1S 500-700 mAh, Radiant 1S 700 mAh, HyperLiPo 2S 300 mAh LiPo				