



X10D Weight and Balance

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WEIGHT AND BALANCE

Scope

The Weight and Balance document has been prepared to recognize the importance of weight and balance technology in conducting safe and efficient flights. This document aims to provide the airframe and powerplant mechanic with the method of determining an aircraft's weight and center of gravity and to furnish the flight crew with information necessary for operating the vehicle.

Weight

Table 1 lists the dimensions of the X10 system:

X10D SYSTEM	DIMENSIONS	
Height	5.4 in / 13.8 cm	
Length unfolded	23.6 in / 60 cm	
Wingspan	28.5 in / 72.5 cm	
Chassis length with sensor	11.9 in / 30.2 cm	
Fully deployed	31.1 x 25.6 x 5.7 in / 79 x 65 x 14.5 cm	
Folded without battery	13.8 x 6.5 x 4.7 in / 35 x 16.5 x 11.9 cm	
Folded with battery diameter	7.25 in / 18.4 cm	
Propellers diagonal tip-to-tip	12.5 in / 31.8 cm	
Battery	6.8 x 2.7 x 2.4 in / 173 x 69 x 61 cm	
X10 controller	10.5 x 5 x 3 in / 26.7 x 12.7 x 7.6 cm	

Table 1 – Dimensions

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X10D SYSTEM	WEIGHT
Vehicle with sensor and battery	4.72 lb / 2.14 kg
Vehicle and sensor without battery	3.1 lb / 1.4 kg
Gimbal and sensor package	9.9 oz / 283 grams
Battery	1.56 lb / 707.5 grams
Propeller hub	3.1 oz / 68 grams
X10 controller	1135 grams
Security Key	2 grams
USB-C Cable	36 grams
Dual Charger	316 grams
Power Supply Cable	373 grams

Table 2 – Weight

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Balance

Table 3 lists the balance information for the X10 sUAV system:

Component	X	Y	Z	Note
UAV	.65 mm	1.0 mm	-10.5 mm	deviation from the center of lift

Table 3 – X10 balance

Figure 1 represents the vehicle's center of gravity and the coordinate frame of reference used for balance specification.

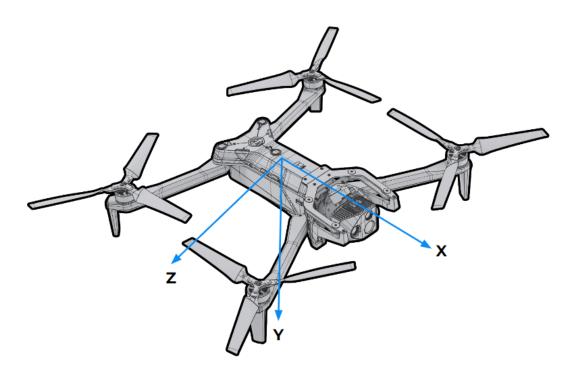


Figure 1 - Deviation from the center of lift