



We at Innovative Parachute Technologies would like to take this opportunity to thank you for evaluating our Axon main canopy. We believe that you will find it to be one of the best opening and performing semi-elliptical 9-cell zero-p canopies available. We invite you to demo one after reading about its performance because we know that once you do, you will have found a great option for your new main.

Axon Performance:

We have put significant effort into achieving consistently smooth and on-heading openings with no fuss packing into the design of the Axon. A standard pro-pack with no special folding or rolling of the nose of the canopy provides the best results. Our customers are saying that we have some of the best opening canopies available.

While each individual might have their own preference for flight performance, we have found that our test jumpers and customers provide consistent feedback that our main canopies have outstanding flight characteristics. As the result of our research and development, our efficient and sound designs provide solid performance from opening to landing.

We designed the Axon, a semi-elliptical 9-cell zero-p intermediate main canopy, to suit the flight performance that most skydivers can appreciate. The control range is intuitive and depending on the wing loading, the performance can range from relatively docile to quick and responsive. The front and rear riser force is low allowing the canopy pilot the ability to flatten their glide or dive to achieve landings that are more energetic.

While in full flight the Axon glides at roughly the same speed as other intermediate performance canopies, however its glide angle is less steep (less ground hungry) than some. The Axon provides good penetration when flying directly upwind and it has solid glide performance when being pushed by a tailwind. The Axon has a lower descent rate in brakes enabling you to “float” longer than other intermediate performance canopies, which is a significant benefit when attempting to return from a bad spot or stay up longer to allow other jumpers land first.

The Axon responds early in the control stroke to toggle turns when compared with other intermediate performance canopies. The toggle pressure is lower than other canopies of the same type and is noticeably more sensitive to control input. Additionally, the Axon responds nicely in braked flight allowing flat turns to be very effective when used.

The stall characteristic of the Axon is somewhat forgiving in that the toggles can be pulled close to full arm extension without stalling and the recovery is relatively quick and controlled if accomplished properly. A low forward speed will be achieved with the Axon before a stall occurs. End cell closure can occur during stall recovery but positioning the toggles near the brake setting point (approximately ½ to ¾ brakes) should expedite re-inflation of the the end cells.

Like other intermediate performance canopies, the Axon is relatively easy to land assuming that a proper flare technique is performed. The Axon maintains good lift at low airspeed providing relatively slow horizontal speed and low descent rate even if your flare technique is a little off.

During energetic approaches, the Axon loses slightly more altitude in a turn than some other intermediate performance canopies. The front and rear riser forces are modest for the intermediate skydiver allowing them to flatten their glide or dive to achieve landings that are intentionally more energetic ending with a high-speed pre-touchdown horizontal velocity.

The table below defines the recommended exit weights for our Axon line of sport parachutes.

Recommended Exit Weights for the Axon									
Canopy Size	Max Weight						Span (ft)	Chord (ft. Avg.)	Aspect Ratio
	Student	Novice	Int.	Adv	Exp	Max			
100	*	*	*	100	129	158	16.0	5.7	2.56 : 1
110	*	*	*	110	142	174	16.8	6.0	2.56 : 1
120	*	*	117	123	159	195	17.5	6.3	2.56 : 1
135	*	118	131	138	179	219	18.6	6.7	2.56 : 1
150	*	138	153	168	198	243	19.6	7.0	2.56 : 1
170	139	156	173	190	224	258	20.9	7.5	2.56 : 1
190	155	174	193	212	231	269	22.1	7.9	2.56 : 1
210	171	192	213	234	255	276	23.2	8.3	2.56 : 1
230	187	222	233	256	279	302	24.3	8.7	2.56 : 1
260	211	251	263	289	315	315	25.8	9.3	2.56 : 1
* Not Recommended									

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