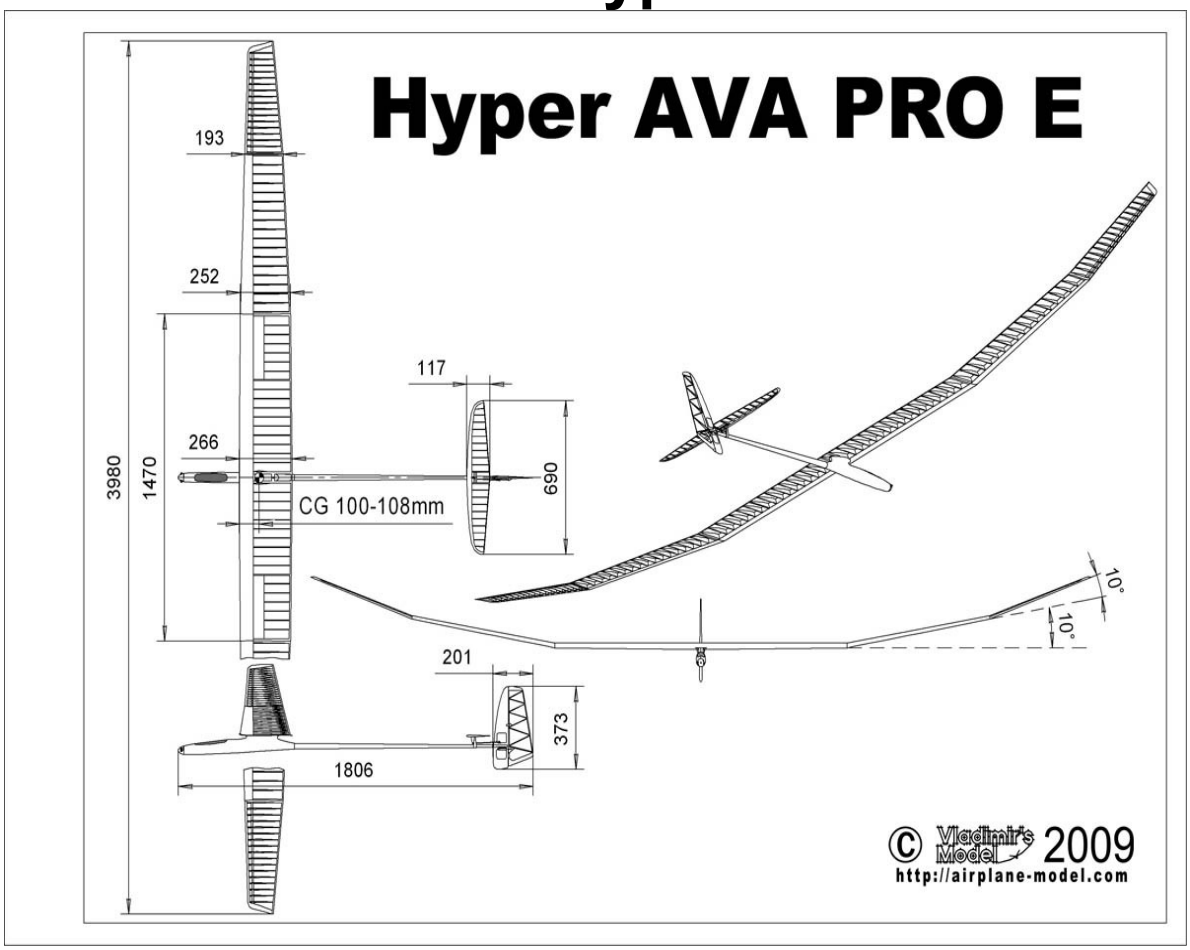
Vladimir's Models Hyper AVA Pro-e Info



Hyper AVA Pro-e Specification

Wing span	**3.95m**	156 in
Wing area	**86.1dm2**	1335 sq in
Length	**1.85m**	73 in
Typical flying weight	**1699g**	60.1 oz
Wing loading	**19.7g/dm2**	6.5 oz/sq ft
EDA	**11.9 degrees**	
Aspect ratio	**18.1**	
Wing airfoil	**AG24/25/26**	
Tail airfoil	**HT14-HT15**	
Fin airfoil	**HT13-HT12**	
Spinner diameter	**38mm**	
Centre of Gravity	**100-108mm from wing leading edge**	
Controls	**Elevator, rudder, spoilers x 2**	

Recommended Servos

Elevator & rudder	**Hyperion DS 09-AMD**
Spoilers	**HS85 MG, HS82 MG** **Hyperion DS11-***

In order to balance the model without using a very heavy motor we highly recommend that good quality digital servos weighing no more than 9g are used for the elevator and rudder controls.

Even with these a prop/motor/ESC combination weighing about 320g will be required.

Warning, this is not a toy!

If you are new to the hobby of flying RC model airplanes, DO NOT attempt to fly this model by yourself! There are hundreds of BMFA (British Model Flying Association) clubs in the UK. Ask your local hobby shop for the location of the nearest club in your area, or check out the www.bmfa.org.uk web site. Many clubs often have qualified instructors to teach you how to fly. If you are an accomplished pilot then you should have no problem in flying this model. However the model can fly very fast, and is potentially a lethal object. Do fly responsibly, and make sure your third party liability (eg BMFA) insurance is valid.

Limit of Liability

All Vladimir's Models are constructed to the highest standard and made strong enough for all reasonable powertrains and reasonable usage by an experienced and responsible r/c aircraft pilot. By keeping this model you confirm that the parts have not been structurally damaged and are fit for purpose as received.
The craftsmanship, attention to detail, and actions of the builder/flyer of this model airplane kit will ultimately determine the airworthiness, flight performance, and the safety of the finished model. You confirm that you take full responsibility for the safe usage, construction, and maintenance of the model, and you will not hold HyperFlight.co.uk or its owners, staff, agents, contractors, or helpers in any way responsible for any damage or injury that may occur as a result of operating or flying this model. HyperFlight's sole obligation shall be to replace those parts of the kit proven to be defective or missing. If you are not willing to agree to this binding condition of sale please return the model in as-received condition to HyperFlight for a refund.

Parts List

Wing (3 pieces)
Fuselage pod with carbon canopy hatch
Carbon fibre tailboom
Fin & rudder assembly
Horizontal stabilser (tailplane)
Accessories bag
These instructions

Other equipment needed to complete and fly the model

Radio with receiver and 4 servos
Radio battery (glider version)
Plugs & sockets for easy wing servo connection
R/C extension leads for the tail servos and wing servos

For the electric version, additionally:
Electronic speed control (ESC)
Battery Eliminator Circuit (BEC)
Flight battery & suitable battery charger
Motor, gearbox & mounting bolts
Prop hub and spinner
Folding prop blades

NOTE: It is your responsibility source suitable components and to check, and if necessary do additional gluing to all critical joints and mounting parts. Parts may come loose during shipping and in operation, so please to eliminate the possibility of model failure and double check and re-glue any loose parts.

Control Throws

Rudder 5cm (2”) each way

Elevator (tailplane) 1.5cm (0.6”) up, 1.0cm (0.4”) down

Setup the all flying tailplane to be parallel to the centreline of the tailboom

Fin Quick Release

Note the fin can come loose on a bumpy landing. The chance of this can be reduced by filing a slot in the boom to accept the end of the clip.

However the only 100% reliable solution is to use a small screw or wire to pin the fin to the boom.

Tail Servo Installation

Spoiler Installation