ZA-5k Zeppelin Shaped Aerostat

Specification January 2026

Category	Technical Parameter	Description / Unit of Measure
1. General Characteristics	Model / Designation	**ZA-5k -** Zeppelin shaped Aerostat
	Purpose	Multi-Sensor Scientific - Surveillance Platform
	Construction Type	The internal pressure maintains the envelope's rigidity
2. Geometric Dimensions	length	12 x 2.5 m
	Helium Volume	App 45 m3
	Fin span	X stabilizers configuration up to 10% odf the side profile area
3. Masses and Payload	Gross lift	App22 kg
	Empty System Weight	App 15 kg
	Maximum Payload Capacity	5 kg
4. Operational Performance	Max Operating Altitude	100 – 150 m
	Max Wind Speed Limit	20 km/h
	Operating Temp. Range	-10 to 60 °C
	Daily Helium Leakage	Up to 1% per day on total volume
5. Materials & Craftsmanship	Envelope Material	125 microns TPU White
	Seam Technology	Ultrasonig Welding (0.3 mm seam)
	Fin System	Composite stabilizers
	Valve System	Scoprega 2 stage valve at the back
6. Tether & Power System	Tether Line	100 m 6 mm Polyester (200 kg BS)
	Tether Power System (TPS)	No
7. Logistics & Preparation	Setup / Inflation Time	Up to 2 hour
	Packaging Dimensions	1.5 x 1.5 x 1 m

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