



AEX324

Technical
specifications



A324

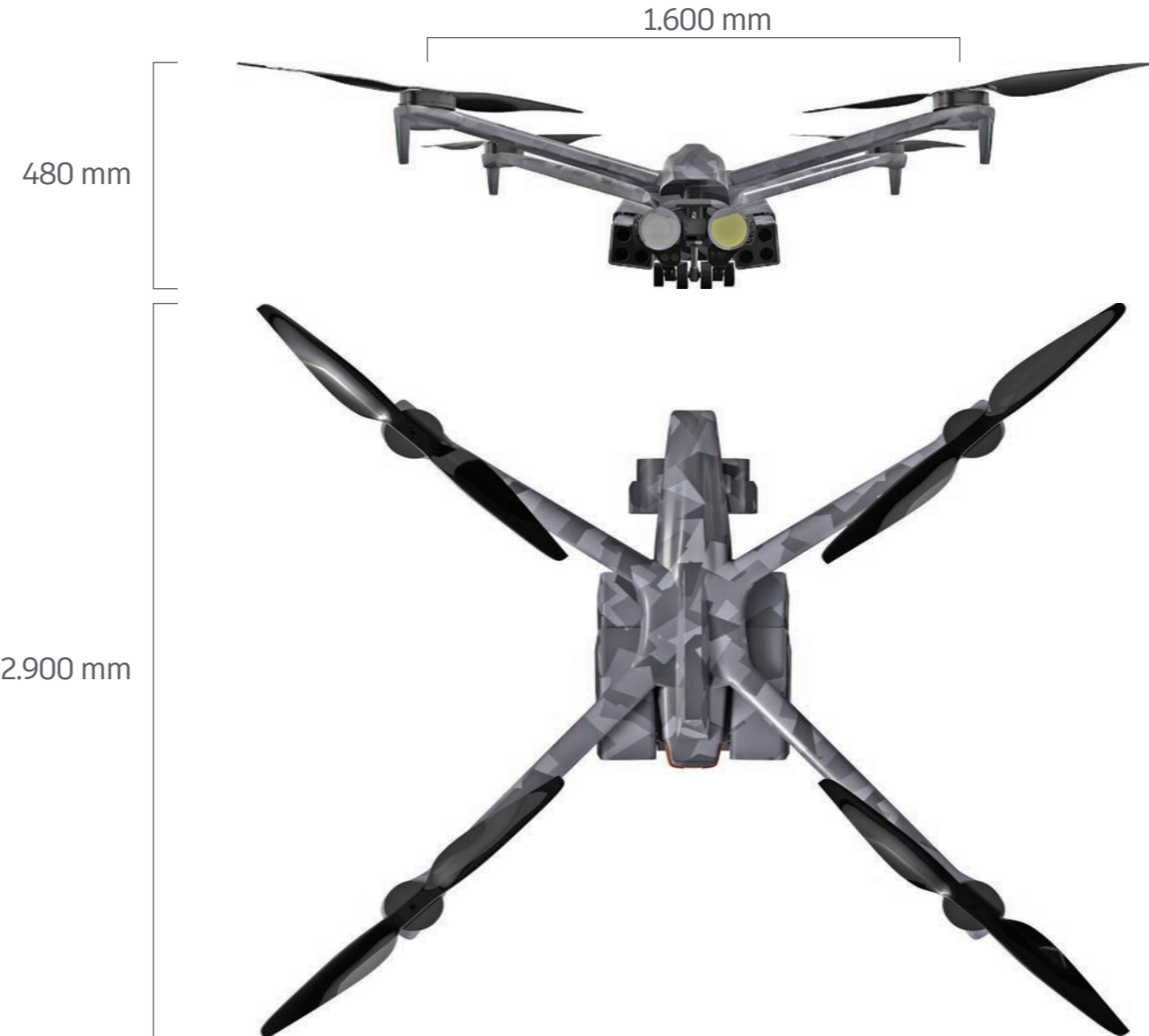
Technical
specifications



» Aircraft A324

Configuration	Quadcopter
Body span	1.600 mm
W. Propellers Max. Span	2.900 mm (36")
Max. Takeoff mass	25 Kg
Propellers	30" 32" 34" 36"
Mass	12.000 to 16.000 g
IP	55
Max. Speed	61 m/s

Endurance	65 min.* 120 min.** 180 min.***
Max. Wind	11,8 m/s
Max. Thrust	84,6 Kg ****
Battery power	13S - 2.184W (52V, 4 Batteries) Intelligent AI based BMS
Mass / Thrust ratio	5,64
Landing gear	Motorized or static



* In cloud environments
 ** Standard ideal conditions flight

*** Ultra light configuration or new nano tech batteries
 **** 36" Propeller

» Aircraft positioning

GNSS	<p>GPS: L1C/A, L1PY, L2C, L2P(Y), L5 GLONASS: L1CA, L2CA, L2P, L3 CDMA Beidou: B1I, B1C, B2a, B2I, B2b, B3I Galileo: E1, E5a, E5b, E5 AltBoc, E6 QZSS: L1C/A, L1C/B, L2C, L5 NavIC: L5</p> <p>SBAS: EGNOS, WAAS, GAGAN, MSAS SDCM (L1, L5) L-band 5 constellation RTK (base and rover)</p>	Update rate	100 Hz
		Interferences Jamming Spoofing	<p>Specialized Algorithms in the GNSS reciver mitigates the RF interferences, from intentionally or not sources.</p> <p>Helical L1, L2, L5, L-band design antenna</p> <p>Composite body protection from ground sources</p>
Positioning accuracy	<p>Horizontal standalone 1.2 m Vertical standalone 1.9 m Horizontal SBAS 0.6 m Vertical SBAS 0.8 m Horizontal DGNSS 0.4 m Vertical DGNSS 0.7 m Horizontal RTK / L-band 0.01 m Vertical RTK / L-band 0.01 m</p>	Ground projection accuracy position	35 cm
		Flight W/O signal	20 min
		Initialisation time	7 s

» Aircraft obstacle avoidance

Gimbal Laser Lidar	5.000 m
360° Stereo cameras	50 m
Spherical coverage sonnar	8 m
Gimbal CV	13.000 D/N / 4.000 m Thermal
Optionally	
Solid state Lidar	In development, waiting for the new generations with more detection distance, currently in tests with 135° detectors and 12 meters detection distance
Micro laser 360°	12 m

» Aircraft electronics

Computing Power	Up to 3 Jetson AGX computers, for T0 Detection, T1 Edge computing
Energy effiencie	<p>AI controlled BMS, battery temperature and humidity.</p> <p>ESC with energy recycling</p>
LTE	5G, 35 Km.
Comand and Control	5 GHz C-2 C-5 Certified communications, 150 Km
LO-RA	Under 200 MHz, 433, 800, 900 MHz, 15 Km
Additional sensors	4 (smoke, harmful, flammable, Co2) or others that the client or operation advises.



G324

Technical specifications

» Aircraft 3D Gimbal G324

Weight	1.500 g
Day / Night camera	Sensor 1/1.8-Type CMOS sensor Resolution FHD (1920x1080) Optical zoom 30 x H FOV 58° - 2.3° Digital zoom 12 x H FOV 58° - 1.3° Image stabilization Automatic D/N mode IR color mode Minimum Illumination 0.00008 lx
Thermal LWIR camera	Sensor 12 nm resolution Pixels 640 or 1280 optionally Optical Zoom 5X Digital Zoom 4X Radiometric Temp. range +600°C Frame rate 25 Hz (50 optionally)
NATO target detection	12.000 m D/N camera 3.900 m Thermal camera

Stabilization	3 axis mechanical and electrical stabilization
Laser Rangefinder	5.000 m 0.01 m accuracy
Laser pointer	Yes
IR illumination	6° 100 m 15° 25 m
Ground position accuracy	35 cm
Full automatic operation from AI	Yes



S324

Technical specifications



» System S324


Aircraft A324	Autonomous UAV powered by AI
Hangars H324	Steel rigid model, for a long term operations.
	Soft model, for rapid deployment in a short term operations.
Charger C324	Charger base with 57 A / 50 V. Automatic charger accessory 4 x Battery charger accessory
MDO software M324	MDO based software, inside of the drone and charger. For full autonomous operations.
I-VR software V324	In beta version, take control of the operation with inverse reality, that projects real video, detection and events over a simulated scenario.





<https://www.aespace.com>

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