ALIT TACTIC

INFLATABLE DECOY & DEPLOYABLE SHELTER SYSTEMS

Multi-spectral target simulation · Mobile hangars · Tethered aerostats

CAPABILITY PRESENTATION

SUPPLIED BY

ALIT Group Limited · Hong Kong

CONTACT

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01 COMPANY PROFILE

16,000 m²
Production base area

200+
Production & technical staff

80+
Advanced production machines

20+
Countries & regions served

ALIT TACTIC — a division of ALIT Group Limited, Hong Kong — is a provider of specialized military equipment tailored for law enforcement and defense agencies. Our deception and deployable-infrastructure program covers the design, R&D, production and supply of inflatable decoys, military inflatable shelters, mobile hangars and tethered aerostats.

Manufacturing runs under an established, documented quality-management system, with over 200 staff including more than 50 experienced R&D and technical specialists. Over 80 advanced production machines give us both large-scale manufacturing capacity and fully customized solution capability.

Our Research & Development team is led by former military commanders and field specialists. Every product is rigorously tested to meet the highest global standards before release.

Products are in service across both military and civil applications and have been exported to numerous countries worldwide, earning consistent recognition for reliability and build quality.

Where quality leads the way.

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QUALITY ASSURANCE

Materials, seam strength, airtightness and multi-spectral performance are verified in-house at every stage of manufacture. Full test documentation and certification packs are issued with each delivery, and customer-witnessed acceptance testing is available on request.

ORDER PROCESS

ALIT TACTIC

1 **Initial Consultation**
Requirements gathering & threat profile

2 **Technical Assessment**
Solution design & specification

3 **Detailed Design**
Final drawings & customer confirmation

4 **Contract & Advance Payment**
Terms, schedule and delivery milestones

5 **Production & Testing**
Manufacture, QA and signature validation

6 **Acceptance & Delivery**
Final payment, packing, shipment, training



02 MILITARY DECOY



HIGH-FIDELITY SIMULATION · PRECISION DECEPTION
MULTI-SPECTRUM INTEGRATION · ALL-DOMAIN PROTECTION

Using advanced simulation design and material technology, our decoys replicate the multi-band signatures of real targets across the radar, infrared and visible-light spectra. This effectively deceives hostile reconnaissance and guidance systems, providing reliable concealment and improved survivability for the combat platforms they protect.

Multi-Spectral Simulation

Realistic radar, infrared and visual signature simulation for genuine decoy effectiveness against modern sensors.

Modular Design

Modular architecture enables easy transport, rapid deployment and flexible configuration to suit the position layout.

Rapid Deployment

Lightweight construction allows quick set-up and recovery by a single soldier or from a vehicle-mounted blower.

Reliability & Durability

High-strength composite materials withstand harsh environments, ensuring long-term stable performance in the field.

CORE TECHNICAL CAPABILITIES

ALIT TACTIC

RADAR CHARACTERISTICS



Simulates the radar signature of the protected target to draw and hold hostile sensor attention.

Frequency Range	Wave Transmittance	Radar Reflectivity	Tensile Strength	Tear Strength
1–20 GHz	≤ 1 %	≥ 95 %	≥ 1600 N/5cm	> 45 N

INFRARED CHARACTERISTICS



Simulates target heat distribution to confuse the identification and tracking of infrared-homing weapons.

Wide Temperature Range
Stable output across extreme climates

Multi-Zone Control
Independent heat zones per assembly

Rapid Response
Fast thermal ramp-up on activation

Low Power Design
Runs from field generator or vehicle

INFLATABLE AIR DEFENSE & ANTI-MISSILE POSITION

- **Full customization:** THAAD system, Patriot system, all types of military radar and missile launch vehicles.
- **High-fidelity simulation:** 1:1 scale replication with combined radar and infrared signature emulation.
- **Application scenarios:** battlefield deception, exercise targets, position layouts, national defense exhibitions.
- **Product advantages:** lightweight and detachable, easy transport, reusable, high cost-effectiveness.


Radar Vehicle


Air Defense Missile Launcher


Rocket Artillery Launcher


Communication Vehicle


Missile Launcher Vehicle

PATRIOT RADAR VEHICLE SYSTEM



Infrared Heat Source Simulation

Reproduces the infrared heat distribution of real equipment, generating a controllable heat-source signature.



Remote-Controlled Rotation

Antenna rotation angle is set remotely for rapid re-orientation.



One-Touch Inflation / Deflation

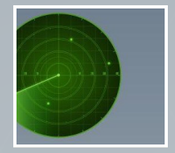
Single-control inflation and deflation of all airbags for rapid deployment or recovery.



PATRIOT PAC-3 CORE RADAR — 1:1 INFLATABLE REPLICA

Omni-Directional Coverage

360° radar signal simulation across multiple frequency bands and waveforms.



Simulated Audio

Built-in sound sources reproduce equipment noise to strengthen the deception.



Controllable Smoke

Generates controlled smoke to simulate the battlefield environment and enhance visual deception.



Multi-Modal Deception

Radar, IR, acoustic and smoke signatures work in synergy to form a multi-dimensional deception network.

Rapid Deployment

One-touch auto inflation/deflation and modular design enable quick set-up and teardown.

High Fidelity

Accurately replicates real equipment signatures to maximize decoy authenticity and effectiveness.

Environmental Adaptability

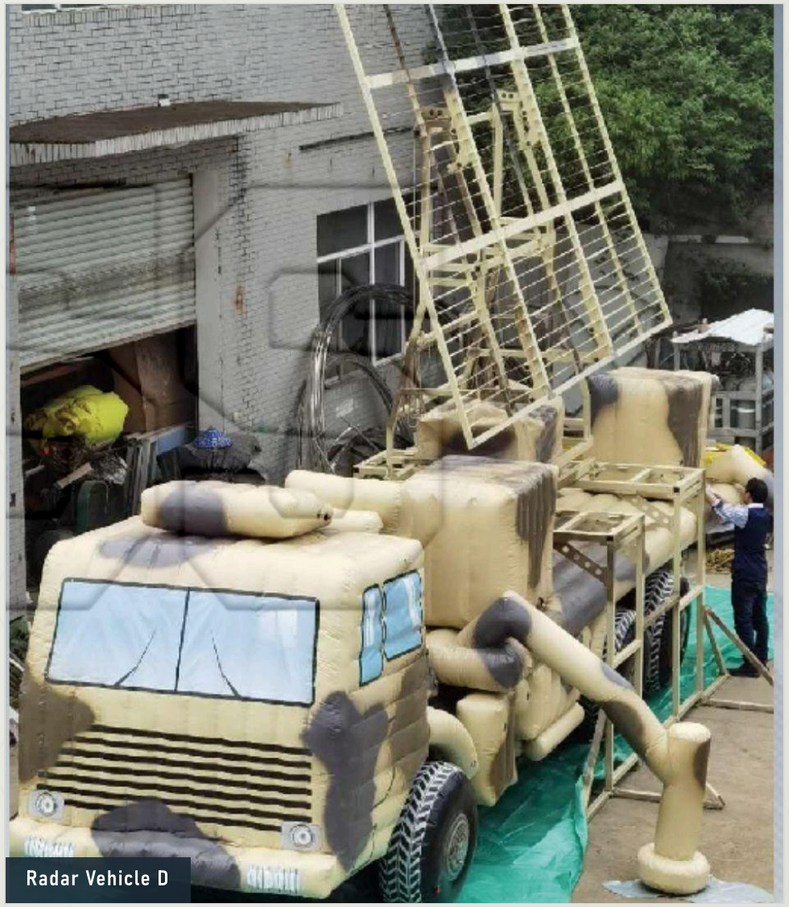
Designed for diverse terrain and climate conditions, with excellent environmental resistance.

INFLATABLE RADAR VEHICLE SERIES

ALIT TACTIC


Patriot PAC-3 Core Radar


Radar Vehicle A


Radar Vehicle D


Radar Vehicle B


Radar Vehicle C

INFLATABLE MISSILE LAUNCHER



PAC-3 Missile Launch Vehicle



Missile Vehicle A



Missile Vehicle C



Missile Vehicle B

FUNCTIONAL & SUPPORT VEHICLES

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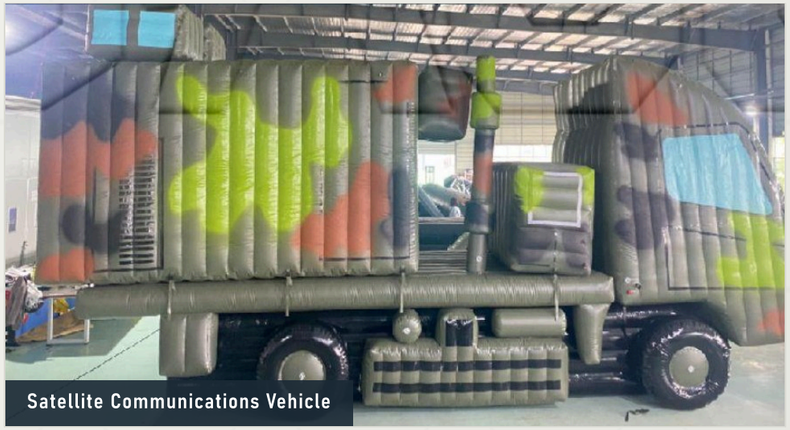
Command & Control Vehicle



Shelter Vehicle



Communication Support Vehicle



Satellite Communications Vehicle



Off-Road Vehicle

INFLATABLE LIGHT TACTICAL VEHICLES

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Light protected patrol vehicle — desert finish



Front aspect — brush guard



Woodland finish

CONFIGURATION

A 1:1 replica of a light protected patrol vehicle. Body, glazing, grille, brush guard, running gear and spare wheel are all reproduced in inflatable form, giving an accurate visual profile from ground level and from the air.

- Single-operator inflation and recovery
- Desert and woodland finishes
- Optional IR heat-source module
- Packs to a fraction of deployed volume

1:1
Scale replication

2
Standard camouflage finishes

1
Operator to deploy

INFLATABLE AIRCRAFT & ROTARY WING



Fighter Aircraft 1 — remotely operated



Fighter Aircraft 3



Helicopter



Mi-171 Transport Helicopter

INFLATABLE ARTILLERY & HOWITZER


Howitzer


Anti-Aircraft Gun


Towed Artillery


Rocket Launcher

INFLATABLE ARMOR & MAIN BATTLE TANKS

ALIT TACTIC



T-72 MBT — production batch



Type 59 Medium Tank



M60T Main Battle Tank



T-72 Main Battle Tank



Arjun Mk 2 MBT

03 PREFABRICATED MOBILE SPACE

Since the 1990s, armed forces have adopted mobile equipment-storage sites for the long-term storage and maintenance of critical assets, as well as for ad-hoc missions. The approach is now widely used across Europe, Asia and other regions.

In earthquake-prone and island regions these structures are valued as “lifesaving buildings” for their seismic resistance and the speed with which they convert into emergency shelters. The air-supported design uses free ambient air as structural support, which gives them substantial advantages over rigid construction and has driven wide cross-industry adoption.

Intelligent terminals provide real-time condition monitoring. The system collects and processes operational data continuously, identifies developing risks and triggers immediate early warning — delivering round-the-clock safety monitoring and ensuring stable operation of the hangar facility.

15+
Year service life

220 / 380 V
PLC pressure control

24 / 7
Remote condition monitoring


Air-supported hangar — primary structure


Camouflage skin over inflatable structure

PREFABRICATED MOBILE SPACE SUBSYSTEM OVERVIEW



Camouflage Skin System

Visible, infrared and radar stealth. A nano-metal coating cuts radar cross-section, blocking enemy detection for full concealment of the sheltered asset.

Inflatable Structure System

Dual-patented high-strength structure: wear-resistant, airtight, temperature-adaptive, mildew-proof, flame-retardant and corrosion-resistant.

Storage Shelter System

All-metal customized cabin with integrated ventilation and drying functions, rated for a service life of more than 15 years.

Wind-Proof Anchoring System

Patented wind-resistant structure with a diversified range of ground fixtures, ensuring extreme stability and facility safety.

Pressure Control System

PLC intelligent control, 220 V / 380 V compatible, with automatic real-time pressure adjustment and safety alarm functions.

INFLATABLE SHELTERS & FIELD TENTS



Camouflage field shelter — rapid-erect frameless construction

CONFIGURATION

Frameless, air-beam shelters erect in minutes from a single blower and pack to a fraction of their deployed volume. Standard configurations cover command posts, field hospitals, decontamination lines, mess and accommodation, workshop and storage.

- Flame-retardant, mildew-proof coated fabric
- Connectable modules and vestibules
- Camouflage, medical and high-visibility finishes
- Integrated ventilation, lighting and heating
- Ground anchoring for high-wind conditions
- Color and marking to customer specification

APPLICATIONS

Forward operating bases · field hospitals and triage · disaster relief and emergency shelter · border and checkpoint operations · exercise and training support · temporary workshop and storage.



Camouflage



Medical



Command



Rescue



High-visibility



Olive drab

04 AEROSTAT



Tethered aerostat — envelope, tail assembly and ground mooring

This tethered airship uses an aerodynamic envelope design and is supplied with a complete set of supporting systems. Two variants are available to meet different flight-duration and payload requirements. The design is mature and finalized, and is applied in both national defense and civil roles for persistent observation and communication relay.

36 m
Largest airship delivered to date

Helium
Non-flammable, safe and stable lift

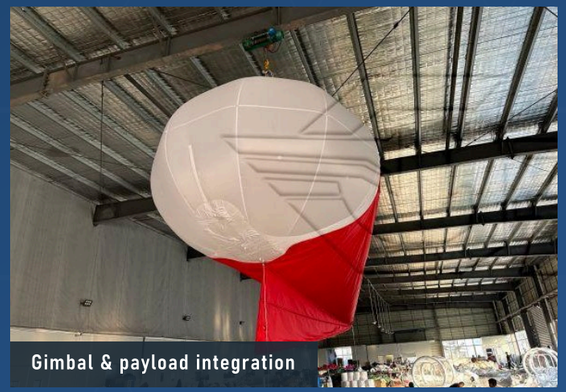
SYSTEM BREAKDOWN

01 Main airbag
02 Payload compartment
03 Pressure adjustment
04 Tail system
05 Rudder & elevator
06 Altitude acquisition
07 Electrical wiring
08 Ground winch
09 Tether system
10 Lightning protection
11 Communications
12 Rotating platform

SURVEILLANCE BALLOON

Helium-filled balloons are non-flammable, safe and stable. Fitted with a dual-axis rotating gimbal, they enable accurate payload positioning. Advanced optoelectronic sensors capture high-definition imagery, while the built-in high-speed link ensures real-time data transfer to the ground station.

The ground station is equipped with professional monitors and control units, delivering an intuitive interface for remote precise control and real-time monitoring and analysis — greatly improving monitoring efficiency and response speed.



Gimbal & payload integration

CHARACTERISTICS

- Carried by the wind, no propulsion required
- Camera suspended beneath the envelope
- Radar systems may be added to the payload
- Preferred over satellite tasking for low cost

APPLICATIONS

UAV surveillance

Border patrol and target search

Coastal and forest monitoring

Intelligent VIP protection

Traffic and road monitoring

Forensics and evidence collection

Communication relay

Event and perimeter overwatch

05 GLOBAL PROJECT PERFORMANCE

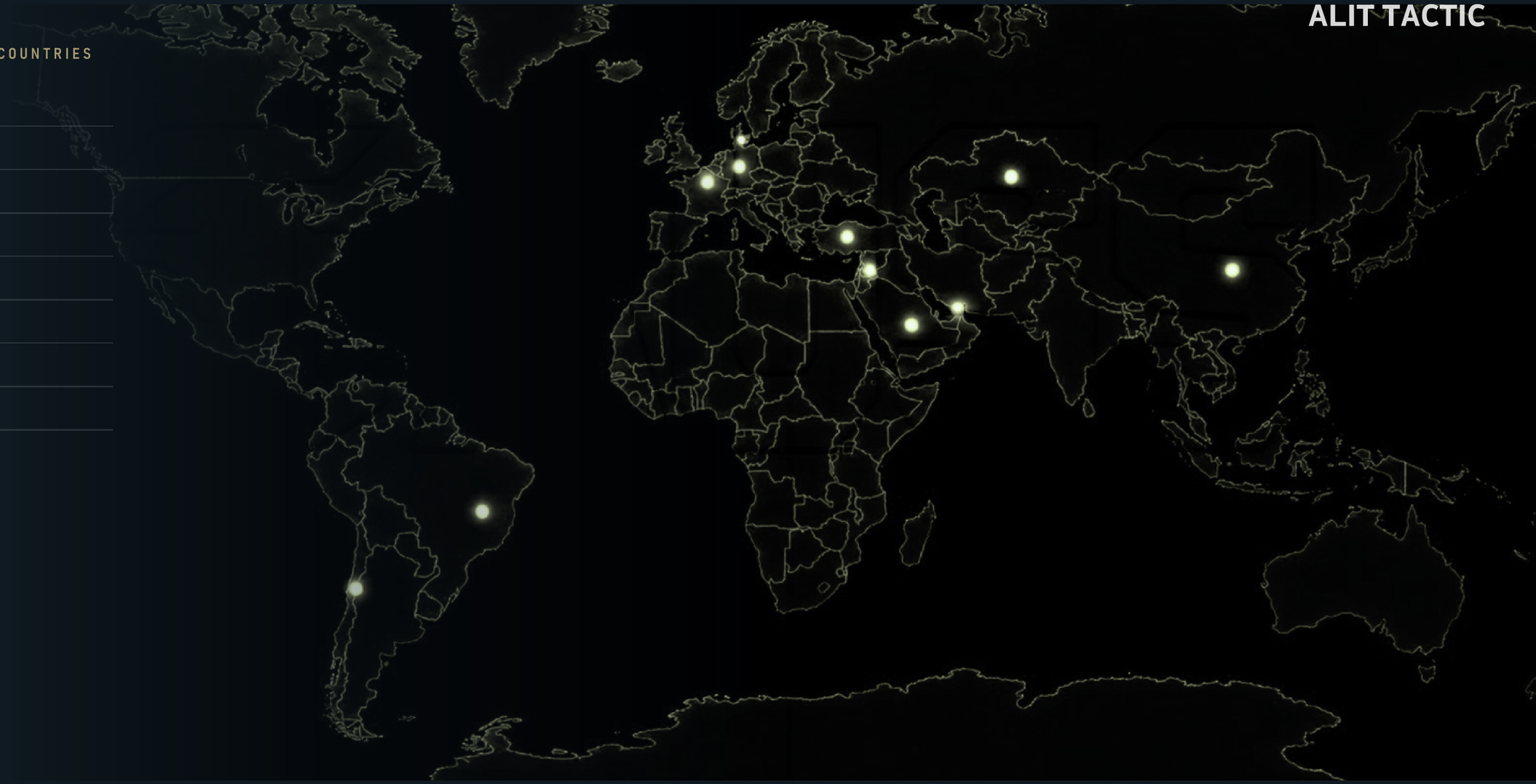
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INTERNATIONAL COOPERATION COUNTRIES

- Germany
- United Arab Emirates
- Saudi Arabia
- Türkiye
- Chile
- Belgium
- Brazil
- Kazakhstan
- Jordan

20+

Countries and regions served to date



GLOBAL PROJECT ACHIEVEMENTS

ALIT TACTIC

8000+
Decoy systems delivered

20+
Countries & regions served

120M+
Defense product portfolio value

10 yrs
of international partnerships

36 m
Largest tethered airship delivered

MULTI-DOMAIN TARGET SIMULATION

Tanks · Aircraft · Artillery · Radar systems

ALIT TACTIC

LET'S BUILD YOUR DECEPTION CAPABILITY

Send us your target list and operating environment — we will return a costed configuration, signature specification and delivery schedule.

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ALSO FROM ALIT TACTIC

Tactical clothing · Footwear · Hats and belts · Vests and backpacks · Tactical gear · Sights · Tactical helmets · Camping and field equipment

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WHERE QUALITY LEADS THE WAY