

"Technology That Protects, Innovates, and Empowers"

L-VISTA

TACTICAL HEXACOPTER SURVEILLANCE & MISSION SUPPORT PLATFORM

RECONNAISS • OBSERVE • ANALYZE • PROTECT



LONG RANGE VTOL
FOR INT SVL & TARGET ACQUISITION

- VERTICAL TAKE-OFF & LANDING
- EXTENDED RANGE UP TO 120 KM
- ENDURANCE 60 MINUTES+
- TARGET ACQUISITION & TRACKING
- ALL WEATHER OPERATIONS

- LONG RANGE COMMUNICATION
- AUTONOMOUS FLIGHT MODES
- ENCRYPTED DATA LINK
- REAL-TIME VIDEO & IMAGERY
- NIGHT & DAY OPERATIONS



TRUSTED. TESTED. MISSION READY.

Empowering our forces with indigenous technology for superior situational awareness and mission success.

L-VISTA ★★★★★

TACTICAL HEXACOPTER SURVEILLANCE & MISSION SUPPORT PLATFORM

L-VISTA is a next-generation tactical hexacopter engineered for surveillance, reconnaissance and mission critical operations. Designed for reliability, endurance and adaptability, it performs in the most challenging environments, day or night.



KEY FEATURES

- TRIPLE BAND FREQ HOPPING (FHSS)**
Secure, reliable & interference resistant communications.
- FHSS TECHNOLOGY**
Advanced Frequency Hopping Spread Spectrum for anti-jamming & secure link.
- NON SIM BAND**
Operates in Non-SIM frequency bands for protected & dedicated operations.
- GPS DENIED OPERATIONS**
Works in GPS denied environment using external IMU.
- MAX RANGE 60 KM**
Long range data link & control range up to 60 km (Line of Sight).*
- POWER SYSTEM**
Li-ion smart battery for high energy, long endurance & intelligent power management.
- RUGGED & RELIABLE**
Built to operate in harsh weather and challenging terrains.
- MODULAR & FLEXIBLE**
Quick payload integrations and mission reconfiguration.



TECHNICAL SPECIFICATIONS

PARAMETER	SPECIFICATION
Configuration	Hexacopter (6 Motors)
Max Take-off Weight	8.5 kg (Approx.)
Payload Capacity	Up to 5 kg
Endurance	60 Minutes+
Max Range	Up to 60 km (LOS)*
Max Speed	Up to 75 km/h (Cruise)
Operating Altitude (ASL)	Up to 1500 Ft
Operating Altitude (AMSL)	Up to 16000 Ft
Wind Resistance	Up to 15 m/s
Operating Temperature	-10°C to +50°C
Navigation	GPS / GLONASS / NavIC
GPS Denied Operation	Supported (External IMU)
Control Link	Triple Band FHSS (Non SIM)
Video Link	Triple Band FHSS (Non SIM)
Take-off / Landing	Vertical (VTOL)
Autonomous Modes	Waypoint, Follow, Return-to-Home, Loiter, Terrain Following
Power System	Li-ion Smart Battery
Maintenance	Modular & Field Maintainable Design

*Payload, environment and mission profile dependent

MISSION APPLICATIONS

- ISR OPERATIONS**
Intelligence, Surveillance & Reconnaissance
- BORDER SURVEILLANCE**
Monitoring of Borders and Sensitive Areas
- DISASTER RESPONSE**
Search & Rescue, Damage Assessment
- INFRASTRUCTURE MONITORING**
Critical Infrastructure & Asset Protection
- TACTICAL COMMUNICATION**
Relay & Communication Support

PAYLOAD OPTIONS (EXAMPLES)



AI ANALYTICS MODULES

- HUMAN INTRUSION DETECTION
- VEHICLE DETECTION & TRACKING
- PERIMETER BREACH DETECTION
- LOITERING DETECTION
- CROWD DENSITY ANALYSIS
- FACE RECOGNITION (DATABASE MATCHING)
- WEAPON DETECTION (RIFLE / HANDGUN)
- ABANDONED OBJECT DETECTION
- LEFT / REMOVED OBJECT DETECTION
- SMOKE / FIRE DETECTION
- DRONE DETECTION (VISUAL SIGNATURE)
- PTZ AUTO TRACKING
- SUSPICIOUS BEHAVIOUR ANALYTICS

LONG RANGE VTOL - INT SVL & TARGET ACQUISITION



- VERTICAL TAKE-OFF & LANDING
- FIXED WING CRUISE FOR LONG RANGE
- INTELLIGENCE, SURVEILLANCE & RECONNAISSANCE
- TARGET ACQUISITION & TRACKING
- REAL-TIME DOWNLINK & AI ANALYTICS

SPECIFICATION	VALUE
Type	Hybrid VTOL - Fixed Wing UAV
Max Take-off Weight	8.5 kg (Approx.)
Payload Capacity	Up to 5 kg
Endurance	60 Minutes+
Range (LOS)	Up to 120 km
Max Altitude (ASL)	Up to 1500 Ft
Max Altitude (AMSL)	Up to 16000 Ft
Cruise Speed	60 - 120 km/h
VTOL Mode	Multicopter Vertical Take-off & Landing
Cruise Mode	Fixed Wing Autonomous Flight

- TRIPLE BAND FREQ HOPPING FHSS
- NON SIM FREQUENCY
- WORKS IN GPS DENIED ENVIRONMENT USING EXTERNAL IMU
- MAX RANGE UP TO 60 KM
- POWER SYSTEM LI-ION SMART BATTERY