

NETRA5

UNMATCHED RESILIENCE



GNSS Denied
Return to Home



Dual
Intelligence



Modular
Payloads



Compact &
Portable



Return to Home

GNSS Denied Operations

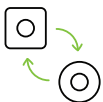
Safe return to home with 3m radius
landing accuracy under GNSS disruptions



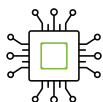
Extended Overwatch

NETRA 5 minimizes downtime, enabling
extended-range overwatch missions in remote
locations with 5000 flights.

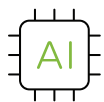
Futureproof Platform



Open
Interface for
Payloads



Qualcomm
RB5
Processor



Onboard AI
Enabled
Workflows



All-weather
Collision
Avoidance



AES 256
Encryption
& VAPT



Smarter
Battery

Safety & Reliability



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Payloads

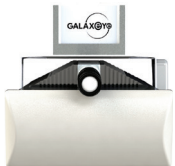


Dual Integrated EO & IR

Multi-sensor primary payload EO & IR with high Zoom.

Increase situational awareness with safe military surveillance and BVLOS operations.

SWAP to secondary payloads to diversify missions (carry up to 2 kg)*



Synthetic Aperture Radar (SAR)

SAR payload enhances military operations by penetrating fog, allowing troops to make informed decisions through all-weather surveillance capabilities.



Drop Payload

Can drop or deliver payloads to target locations, including the delivery mechanism



LiDAR Payload

Create accurate 3D terrain models for precise route planning & blind spot detection.



Multispectral Mapping

Gain a strategic advantage with detailed insights on camouflage detection and soil analysis.



3D Mapping Payload

Capture precise oblique and 3D terrain models using high-resolution imagery.

*The carrying capacity (kg) of the UAV/NETRA 5 depends on the altitude of the flight.





Enhanced Capabilities

NETRA 5 integrates cutting-edge BlueFire Touch with its reimagined hardware design to deliver outstanding performance & meaningful autonomy.

The NETRA 5 can effortlessly navigate diverse terrains with precise controls and advanced failsafe features, while robust safety measures enhance mission success & operational value.



GNSS Denied Operations

Inertial & Visual navigation ensures autonomous safe return to home if GNSS fails.



Direction of Own Artillery Fire

DOAF enables enhanced targeting, accurate FOS, and auto-corrections for long-range artillery.



Obstacle Detection System

Day/Night Obstacle Detection ensures collision-free Search & Rescue and border operations.



Frequency Hopping

Dynamic channel hopping boosts security in contested areas, ensuring reliable communications



Change Detection

High-res mapping spots new structures at borders, alerting forces to potential encroachments.



Subject Detection & Tracking

Identify targets, track enemy movement in real-time remotely without any human intervention.



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Technical Specification

Aerial Vehicle (AV) Characteristics

Maximum take-off weight (MTOW)	<8kg
Endurance	60 minutes (Take off 1000m AMSL) with primary fixed dual integrated EO & IR
Range of live transmission (LOS)	10 Km Extendable upto 15 km Un-obstructed & interference free
Landing accuracy	2.5 m radius
Functional temperature range	-30°C to 55°C
IP rating	IP 55
EMI/EMC	MIL STD 461E
Technical life of UAV	Tested for 5000 landings
Collision avoidance	All weather collision avoidance
Air drop capability*	Upto 2000g including dropping/carrying mechanism
Flight mode	Fully Autonomous mode, Manual mode, Hover mode and RTH mode
Safe & autonomous RTH in case of GNSS loss using vision positioning sensors	3 m radius landing accuracy both during day & night

Payload characteristics

Primary payload	Dual Integrated EO & IR Payload 30x zoom, IR 640x512p
Secondary swappable payload*	Upto 2 kg (including the carrying/dropping mechanism) i. Synthetic Aperture Radar payload ii. LiDAR payload iii. Mapping payload iv. Drop payload

*The carrying capacity (kg) of NETRA 5 depends on the altitude of the flight.

Portability

Car Portability	Yes
IP rating of packaging	IP66
Assembly time	Under 3 minutes
Operating crew	One
Single mission ready backpack	

Autonomy

Terrain avoidance	Both in RPV and autonomous mode
Fail safe feature	Autonomous fail-safe trigger for RTH at high winds, in low battery, Communication loss and on exceeding UAV health parameters
Mission planning	Way-point navigation, made man obstacles, geo-fencing, No fly zone
Pre-flight checks	Coverage area check, Viewing coverage area with the payload
Surveillance capabilities	Line-of-interest, Area-of-interest
People detection	Day & Night
People counting	Day & Night

Software features

DSM compatible	Yes
DoAF/ Target Coordinate Correction	Yes
Change detection (Mapping)	Capability to detect changes in the area of interest over a period of time using the surveillance video mosaic
Frequency hopping	Yes Enhanced security from communication interception and jamming
 BlueFire Live!™ BE ANYWHERE. SEE EVERYWHERE	Live relay of mission through intranet and internet options

