



VYOMA-S

High-Tech Guardian on Duty

VYOMA-S



Empowering the Skies, Redefining Surveillance

VYOMA-S is a fixed-wing VTOL Drone designed to take off from any location and sustain flight for over 2+ hours. Cover Long Range and Stay for Longer in the Sky. With Advanced Daylight and Night Vision camera options the drone is suitable for long range surveillance mission and operation in even the harshest conditions.

Powerful Flight Performance



150 mins
Max Flight Time



15 - 50 kms
Operational Range



2 KG
Payload Capacity



30 m/s
Maximum Speed



Experience Unmatched Versatility

- Fully Autonomous
- Advanced EO-IR Payload options
- Secure, Reliable and Long Range Communication
- Target Tracking Flight Mode
- Intelligent Object Detection, Classification & Object Recognition
- Airborne in Minimal Time

Intelligence Redefined with Safety and Reliability

- Dual airspeed sensors
- Tilt Motor Mechanism
- Smart Terrain Avoidance
- Smart Battery Remaining
- Easy Assembly
- Dual GPS Redundancy
- 2+ hrs Flight Time
- Swappable payload bay
- Waypoint Based Navigation
- Autonomous Flight

VYOMA specifications

Drone Category	Small Class UAV
Wingspan	213 cm
Wind resistance at flight altitude	12 m/s at takeoff and landing & 22 m/s during flight
Battery	Lithium-Ion
Operating Frequency	2.4 GHz
Technical Life of AV	500 landings
MTOW	8.5 kg
Flight time (on a single battery)	2+ hours
Ground Control Station	IP52/IP65 10"+ LAPTOP/TABLET (with Joystick)
Range of GCS	15 - 50 kms
Remote Video Terminal	IP65 10" TABLET
Range of RVT	3+ kms
Carry Case	IP 67 Rugged Carry Case and BagPack options available
Failsafes	<ul style="list-style-type: none"> • Return Home on Comms failure • Return Home/Land on low battery • DUAL GPS on-board for GPS failure • Return to Home on High Wind • Smart Low Battery Predictor • Terrain Avoidance
Propulsion	Electric
Maximum Operating Altitude	5000m ASL
Cruise Speed	15 – 19 m/s
Aural Signature	≤40Db @ 300m AGL – NABL certified
Deployment Time	< 1 minutes
Working temperature	-10°C to 55°C - NABL certified
Max payload	1.5 Kg
Landing and Take-off	VTOL
Communication	15 - 50 kms
Day payload	<ul style="list-style-type: none"> • 1280 X 720p • Digital zoom-4x • Optical zoom-20x and more • NFov- ≤ 5° • WFOV- ≥ 45°
Night payload	<ul style="list-style-type: none"> • 640 X 480p • Digital zoom-4x

PAYLOADS

Integrated EO/IR Camera



ZOOM

X40 (X20+X2 digital)

FOV

60° WFOV – 3°

WFOV – 1.5° DFOV

THERMAL RESOLUTION

640x480

PITCH FOR

-45° to +135°

YAW/ROLL FOR

-180° to +180°

WEIGHT

250 grams [8.8 oz.]

DIMENSIONS

Diameter=64mm [2.5"]

x Height=94 mm [3.7"]

Get more control and situational awareness with Remote Video Terminal-RVT

Experience unparalleled control and situational awareness with our Remote Video Terminal-RVT. The RVT allows you to access real-time video feeds from our surveillance drones, enabling live monitoring, remote piloting, and data analysis, empowering your team to make informed decisions in critical operations.

Take command of your surveillance operations with Remote Video Terminal, granting you enhanced control and real-time video feeds for advanced surveillance. See what the Drone Sees. Your Eye in the Sky.

Security and Surveillance

- Delivers unparalleled speed and precision.
- Create highly accurate data and identify potential security vulnerabilities.
- Track dynamic scenarios in hard-to-reach or hazardous environments.
- Enhance efficiency, situational awareness, and data accuracy for comprehensive protection.

Applications



Perimeter Security



Wildlife Monitoring



Search & Rescue



Pipeline,
Towerline Inspection



Reconnaissance



Border Security



ISR/ISTAR



Traffic Management



Aerial Patrol



INDUSTRIES

Defence &
Military

Law
Enforcement

Infrastructure
Inspection

Environmental
Monitoring

Construction &
Engineering

Emergency
Response



Setting Ourselves Apart



5+ Years
of Experience



100 + Projects
Completed



50 + Clients
Served



DGCA Approved
Drones

A Legacy of Excellence

We at Aero360 build state-of-the-art High performance Autonomous Drones designed to suit various applications including Survey & Mapping, Industrial Inspections, Monitoring of Infrastructure and Construction sites, Precision Agriculture, Warehouse Management, Emergency Delivery to Remote Locations, deploying Search & Rescue operations and carrying out Intelligence, Surveillance & Reconnaissance (ISR) missions providing excellent results with efficiency.



Clientele



And many more...

GO BEYOND THE VISUAL LINE OF SIGHT WITH

AERO 360



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