Aero360

VYOMA-M

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Experience Unparalleled Precision with the all new VYOMA

VYOMA-M is a robust fixed-wing VTOL Drone designed for versatility and endurance. Made of high quality composite material, guarantees both strength and durability. With its long endurance & onboard high-precision GNSS, VYOMA-M covers large areas quickly & collects highly accurate data with multiple payload options.

Powerful Flight Performance

120 + mins Max Flight Time	**15 + KMs** Operational Range	**1.5 KG** Payload Capacity	**30 m/s** Maximum Speed

Experience Unmatched Performance

- Fully Autonomous
- High Performance and Reliability
- Multiple Mapping Payload options
- Accurate and Seamless Data Acquisition
- Airborne in Minimal Time
- High Accuracy with PPK GNSS

Intelligence Redefined with Safety and Reliability

- Dual airspeed sensors
- Tilt Motor Mechanism
- Smart Terrain Avoidance
- Smart Battery Remaining
- Easy Assembly
- Dual GPS Redundancy
- 2+HR 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	12m/s at takeoff and landing & 22m/s during flight
Battery	Lithium-Ion
Operating Frequency	2.4 GHz
Technical Life of AV	500 landings
MTOW	8.5 kg
Flight time	2+ hours (on a single battery)
GNSS Grade	PPK/RTK Enabled onboard GNSS along with Base (Master) GNSS receiver
Failsafes	• 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
Deployment Time	< 1 minutes
Working temperature	-10°C to 55°C
Max payload	1.5 Kg
Landing and Takeoff	VTOL
Communication	15+ Kms
Absolute X, Y, Z accuracy	< 10 cm

PAYLOADS

RGB Mapping

Sony A6100

Sony RX1R II

Oblique

ADTI 24MP

ADTI 42MP

ADTI 61MP

Multispectral

Parrot Sequoia

MicaSense Rededge P

MicaSense Rededge Altum PT

Thermal

FLIR Vue Pro 336

FLIR Vue Pro 640

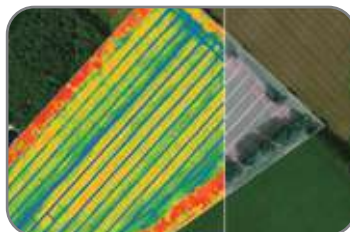### DATA OUTPUTS

Orthomosaic maps

3D point clouds
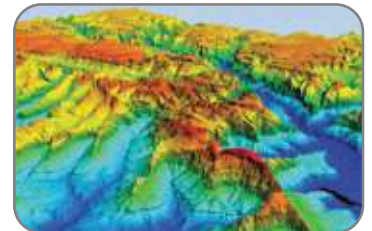
Digital surface models (DSM)

Thermal map

Multispectral map

Oblique Camera Map

- Get faster and more accurate results.
- Create highly accurate maps and survey points.
- Helps to identify job-site errors, track work progress, predict schedule delays, etc.
- Map Inaccessible Places allowing land surveyors to acquire better and accurate data with safe working conditions.

Applications

Normalized Difference Vegetation Indexing

Volumetric Estimation and 3D Modeling

Hot Spot Detection and Mapping

Topographic Surveying and Mapping

VYOMA-M features for surveying and mapping

- 10X faster data acquisition
- 99% accurate measurement with PPK/RTK. No GCPs needed.
- Larger Area Coverage
- Multiple data collection options with different camera payloads
- Map even the inaccessible areas
- Reliable and Redundant System for Aerial Mapping

INDUSTRIES

Surveying / GIS / Remote Sensing

Agriculture

Mining

Forestry

Constructions / Infrastructure

5+ Years of Experience
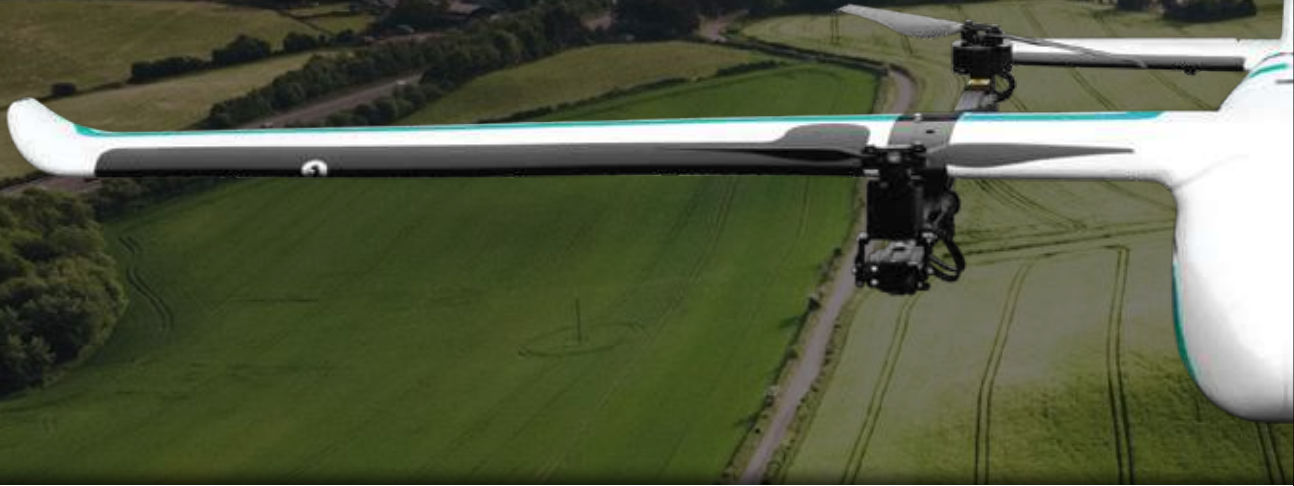
100 + Projects Completed

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

DRDO

INDIAN RAILWAYS

DAE

INDIAN ARMY

CUBE

ANDHRA PRADESH DRONES CORPORATION

Raipur SMART CITY

CDAC

L&T Construction

BHARAT ELECTRONICS

HINDUSTAN ZINC
Zinc & Silver of India

Enrich
The Solar People

criyagen

TATA POWER

TATA COMMUNICATIONS

indus TOWERS

SANGHI CEMENT

RAMBOLL

vedanta

CleanMax SOLAR

CYIENT

KALPA-TARU

CBRI

ULAVAN

And many more...