

Pi-Drone 3000

**Surveillance:ThreatDetection: Look&Drop:
30XOptical,180Xdigital Camera**

Integrated drone based communication and surveillance ecosystem that enhances police operations, administrative coordination, public safety, and governance efficiency

Embedded with AI algorithms for real-time path planning, object tracking, and facial/blurry image recognition and can operate in GPS-denied environments using visual SLAM

Modular payload system include audio systems, Powerful Day / Night vision cameras, LiDAR, loudspeakers and payload delivery modules

Onboard processors for edge computing / analysing video feeds, detecting anomalies, and making instant decisions (e.g. trigger an alert, broadcast message, relay coordinates)





Focused Areas of Application: Enabling Resilience, Safety, and Innovation through Drones:

- Large Scale Public Event Management
- Disaster Management and Emergency Response
- Traffic and Crowd Control
- Public Health and Awareness Campaigns
- Law Enforcement and Surveillance
- Tourism and Recreational Safety
- Search and Rescue Missions
- Community Outreach and Civic Engagement
- Communication in Remote or Inaccessible Areas
- Environmental Monitoring and Community Alerts

Features :

- Jetson Nano Orin Processor for AI Applications
- Herelink Telemetry
- Lidar Sensors for Terrain and Obstacle Avoidance
- Mission Planner
- Traffic Management, Live aerial surveillance of traffic build-up.
- Accident Rescue Operations
- Emergency Medical Supply Dropping
- Facial Recognition
- Monitoring large public events, protests, or rallies
- Aerial Human Headcount Monitoring
- Movement Control & Emergency Access
- Payload drop management.



Weight : 8Kgs (TOW-13Kgs)

Type : Multirotor

Material : Aluminium

Endurance : 40 Minutes

Max Speed : 112 Kmph



Propeller

Composite Meterial

18 inches



Motors

BLDC, 5008 size known for high torque and thrust.

These motors offer a balance between performance and efficiency.



AI Software for monitoring

Threat Detection

Data Privacy : End-to-end A rated Encryption.

1. Improved Decision-Making and Adaptability
2. Enhanced Vision and Recognition
3. Predictive Maintenance
4. Optimized Path Planning and Efficiency
5. Smarter Human-Robot Collaboration



Battery Specifications

Lithium Ion

Voltage: 25.2V

Capacity 42000mAh



Camera Model : ZR10

Operating Voltage (V) : 11 to 25.2

Power Consumption (W) : 3

Operating Tem (°C) : -10 to 50 Deg C

Waterproof Level : IP4X

Dimensions (L x W x H) mm : 121x101x78

Weight (g) : 381



Telemetry: Herelink

Operating Crew : Max. one person

Ingress Protection Rating : IP 53

Weight : 516g (including antennas)

Dimension : 217x106.5x31

Geo-Fencing : Automatic Geo-Fencing

Auto-Disarming Timeout : 10 Second

Screen : 5.46-inch, 1080p 16mil colors, capacitive touchscreen,
1000 nits brightness.

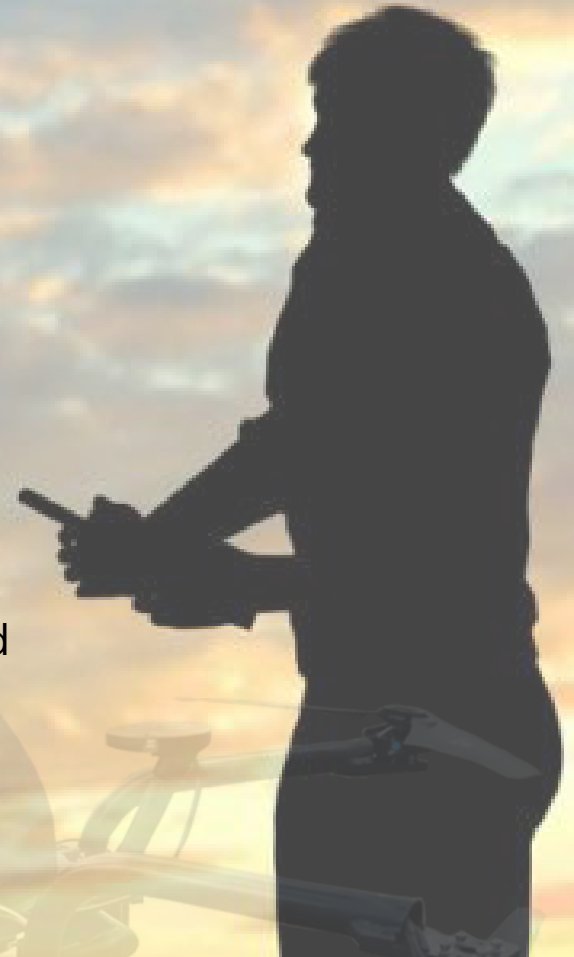
Application : Mission Planner, Solex TX and QGC

Storage : 8GB eMMC, with a Micro SD card slot supporting up to 64GB.

Video Transmission: 1080p Full HD

Auto-Disarming Timeout: 10 Seconds





Single Pilot Operation

Operational Endurance : Up to 40 Minutes

Wind Resistance : Up to 45 Km/Hr(6.5m/s)

UAV Speed : Cruise 8 to 10 Meters per Second

Maximum : 10 Meters per Second

Operational Altitude : 123 Mtr AGL

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