

OPTIVALUS TEK

AUTONOMOUS AERIAL SYSTEMS CONSULTING



DRONE BATTERY
ASSEMBLY
LINE-2

DRONE

DRONE

ASSEMBLY
LINE-1





VTOL Surveillance Electronic Drone (Vertical Take-Off & Fixed Wing)

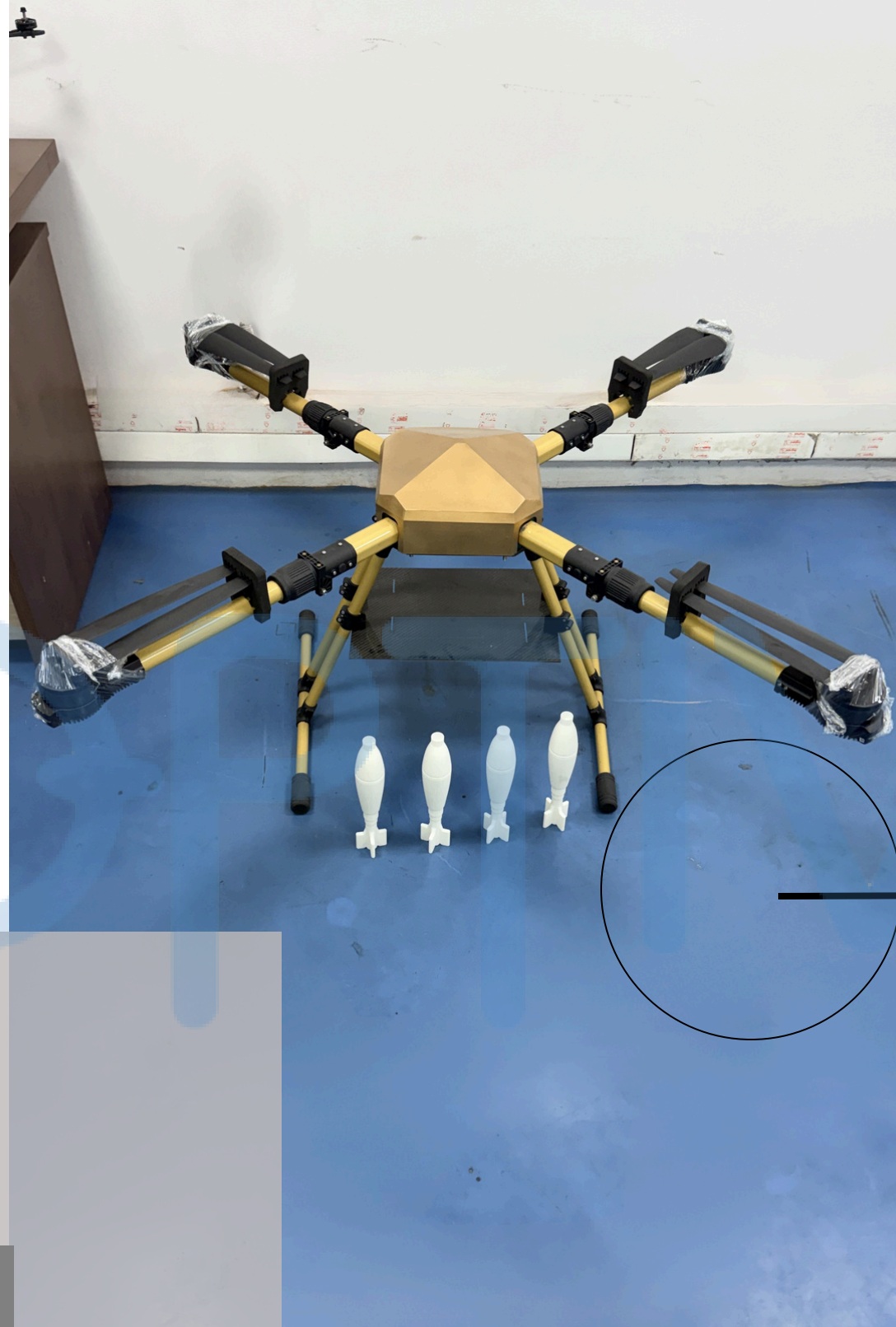
- 1. Flight Time: 50– 80 minutes**
- 2. Range: 70 km**
- 3. Payload Capacity: 1 kg**
- 4. Camera: EO/IR + Thermal + 10x–30x Zoom optionable**
Autonomy: Waypoint Navigation + Auto RTH
- 5. Sensors: GPS, IMU, Obstacle Avoidance**
- 6. Communication: 4G Encrypted RF / LTE (Optional Satellite)**
- 7. Applications: Surveillance, Defense, Mapping, Security, Logistics**



Thermal Surveillance Electronic Drone

Thermal Precision. Tactical Superiority

- 1. Flight Time: 80 minutes**
- 2. Range: 5 km**
- 3. Payload: 1 kg**
- 4. Camera: 4K EO + Thermal (640×512 IR)**
- 5. Night Ops: Yes (Thermal Vision)**
- 6. Stabilization: 3-Axis Gimbal**
- 7. Navigation: GPS/RTK Enabled**
- 8. Autonomy: Waypoint, Auto Rreturn, Tracking**
- 9. Communication: Encrypted HD Video Link**
- 10. Applications: Surveillance, Security, Search & Rescue, Defense, Mapping, Security, Logistics**



Multiple Rocket Launcher Drone

India's First AR Pixel Marking and
AI-Based Dropping Rocket Launcher

1. Flight Time: 25 minutes (depending on payload)
2. Max Payload Capacity: 4 kg
3. Operating Range: 10–20 km (LOS)
4. Max Speed: 50 m/s
5. Navigation System: GPS/GLONASS with RTK precision support
6. Camera System: 4K EO Camera + Thermal Imaging Sensor
7. Stability: AI-powered flight control with obstacle avoidance
8. Autonomous Features: Waypoint navigation, return-to-home, terrain follow



TITAN 20 KG HEAVY PAYLOAD CUSTOM DRONE

1. Payload Capacity: 20 Kg
2. Flight Time: 20-30 minutes
3. Range: 10-15 Km (LOS)
4. Max Speed: 10 m/s
5. Navigation: GPS / GLONASS / RTK (optional)
6. Autonomous: Waypoints, RTH, Auto Takeoff/Landing
7. Safety: Obstacle Avoidance, Failsafe System
8. Frame: Carbon Fiber, IP54 Rated
9. Applications: Logistics, Defense, Agriculture, Surveillance



AeroBlade RC Helicopter

1. Landing Gear: Carbon Fiber Skid
2. Motor: Brushless High Torque
3. ESC: 80–160A HV
4. Battery: LiPo 6S–12S (22.2V–44.4V)
5. Flight Controller: Flybarless (FBL) System
6. Servos: Digital Metal Gear (3 Cyclic + 1 Tail)
7. Flight Time: 8–15 Minutes
8. Control Range: 1–3 km
9. Stabilization: 3-Axis Gyro
10. Payload Capacity: 1–3 kg
11. Applications: Aerial Photography, Surveillance, R&D, Hobby Flying



Mini Suicide Drone

Compact War Action

- 1. Flight Time: 15 minutes**
- 2. Range: 4 km**
- 3. Max Speed: Up to 20 m/s**
- 4. Payload Capacity: 200 g**
- 5. Camera: FPV 720p, Night Vision**
- 6. Autonomy: Waypoint Navigation + Auto RTH**
- 7. Sensors: GPS, IMU, Obstacle Avoidance**
- 8. Communication: 4G Encrypted RF / LTE (Optional Satellite)**
- 9. Applications: Surveillance, Attack**



FPV 8-Rotor Drone

1. **Flight Time: 10–25 minutes**
2. **Range: 5–15 km**
3. **Payload Capacity: 5–10 kg**
4. **Camera: 4K/6K/8K cinema camera (FPV + gimbal supported)**
5. **Autonomy: Semi-autonomous (GPS waypoint, return-to-home)**
6. **Sensors: GPS, IMU, barometer, compass, obstacle avoidance (optional)**
7. **Communication: 2.4 GHz / 5.8 GHz radio + FPV video transmission**
8. **Applications: Cinematography, mapping, surveillance, industrial inspection**



10KG Heavy Custom Drone

1. **Flight Time: 20–35 Minutes**
2. **Range: 10–15 km**
3. **Payload Capacity: Up to 10 kg**
4. **Camera: Optional (4K/FPV/Mapping Camera)**
5. **Autonomy: Semi-Autonomous (GPS Waypoint Navigation, RTH)**
6. **Sensors: GPS / GNSS, IMU, Altimeter, Obstacle Avoidance (optional)**
7. **Communication: RF / Telemetry Link + FPV Video Transmission**
8. **Applications: Aerial Survey, Mapping, Inspection, Delivery, Surveillance**



Fire Fighting Electronic Drone

From Sky to Safety – Securing India

1. Payload Capacity: 20–50 kg
2. Flight Time: 20–30 min (with load)
3. Range: Up to 10 km
4. Fire System: Water / Foam / Dry Chemical (precision drop/spray)
5. Camera: 4K HD + Thermal Imaging
6. Sensors: GPS, Obstacle Avoidance, Heat Detection
7. Autonomous: Waypoint, AI Fire Detection, RTH
8. Build: Carbon Fiber, Heat & Water Resistant
9. Use Cases: High-rise, Industrial, Forest Fire



Multiple Grenade Launcher Drone

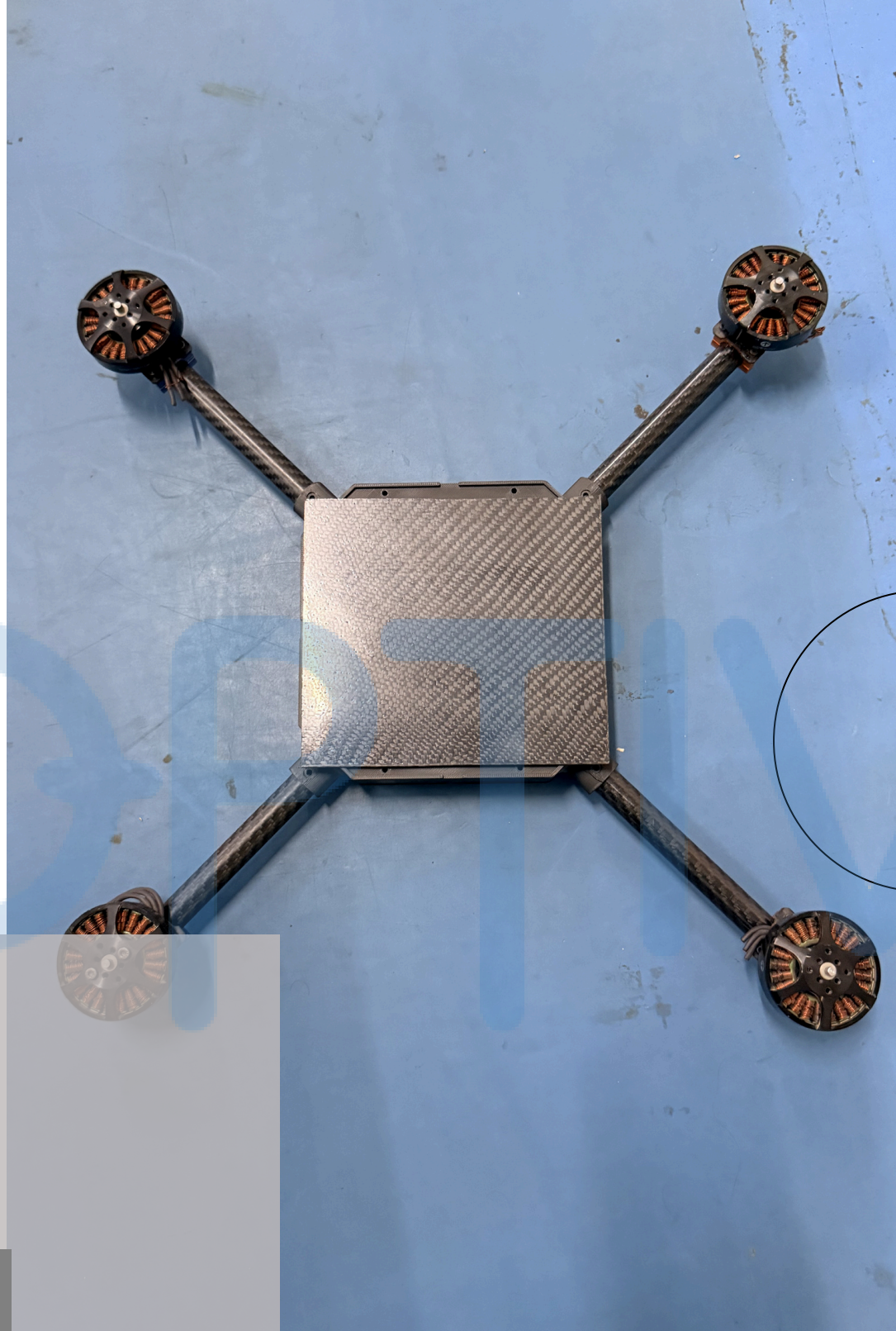
India's First AR Pixel Marking and AI-Based Dropping Rocket Launcher

1. Flight Time: 25 minutes (depending on payload)
2. Max Payload Capacity: 4 kg
3. Operating Range: 10–20 km (LOS)
4. Max Speed: 50 m/s
5. Navigation System: GPS/GLONASS with RTK precision support
6. Camera System: EO Camera + Thermal Imaging Sensor
7. Stability: AI-powered flight control with obstacle avoidance
8. Autonomous Features: Waypoint navigation, return-to-home, terrain follow



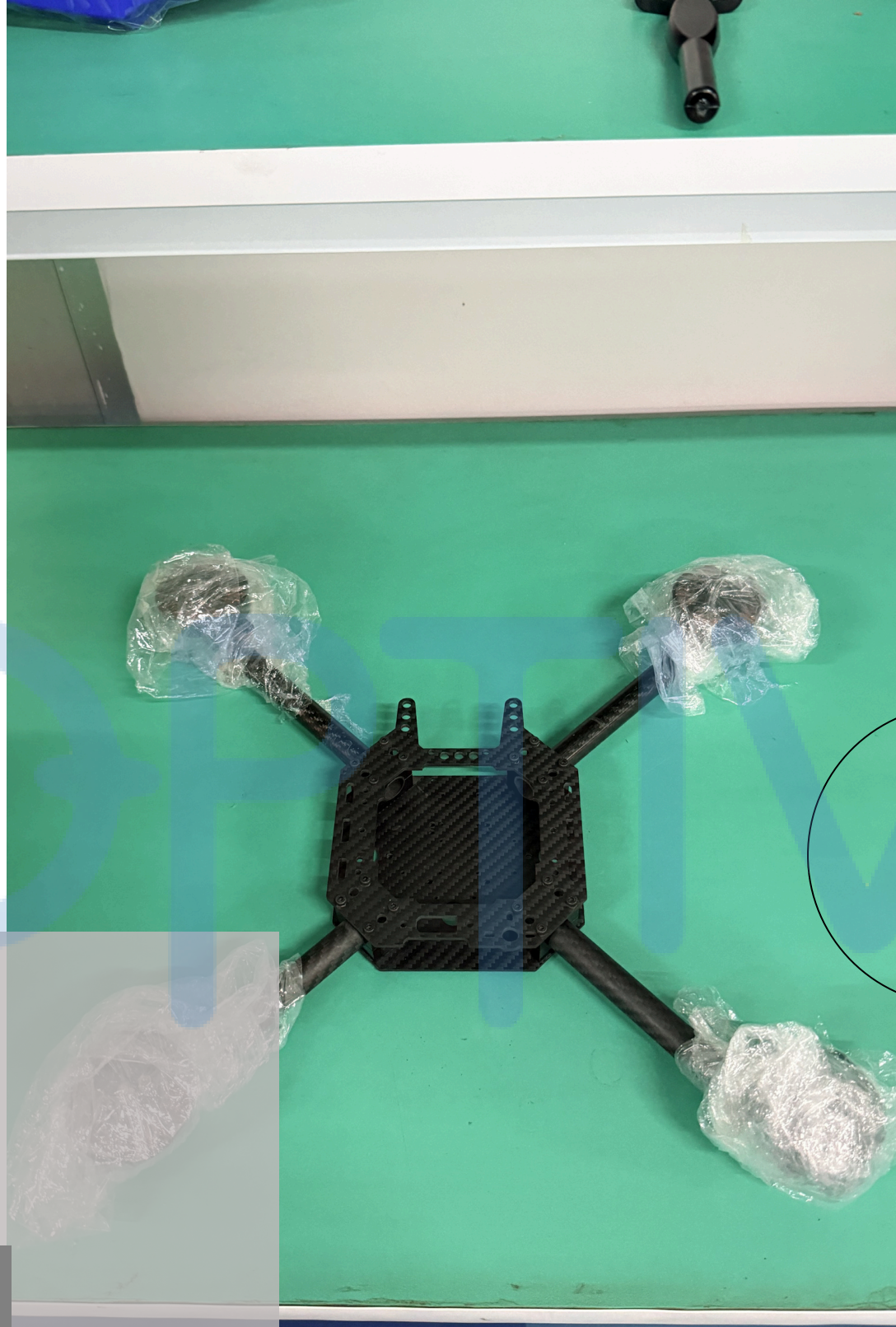
Logistics 50 kg Drone

1. Flight Time: 20 minutes
2. Range: 4 km
3. Payload Capacity: 50 kg
4. Camera: EO/IR + Thermal + 2x Zoom optional
5. Autonomy: Waypoint Navigation + Auto RTH
6. Sensors: GPS, IMU, Obstacle Avoidance
7. Communication: 4G Encrypted RF / LTE (Optional Satellite)
8. Applications: Surveillance, Defense, Mapping, Security, Logistics



2KG Payload

1. **Flight Time: 10 minutes**
2. **Range: 8 km**
3. **Max Speed: 40 m/s**
4. **Payload Capacity: 2 kg**
5. **Camera: EO/IR + Thermal + 2x Zoom optionable**
6. **Autonomy: Waypoint Navigation + Auto RTH**
7. **Sensors: GPS, IMU, Obstacle Avoidance**
8. **Communication: 4G Encrypted RF / LTE (Optional Satellite)**
9. **Applications: Surveillance, Defense, Mapping, Security, Logistics**



Quadcopter 3 kg Drone

1. **Flight Time: 10 minutes**
2. **Range: 6 km**
3. **Max Speed: 40 m/s**
4. **Payload Capacity: 3 kg**
5. **Camera: EO/IR + Thermal + 2x Zoom optionable**
6. **Autonomy: Waypoint Navigation + Auto RTH**
7. **Sensors: GPS, IMU, Obstacle Avoidance**
8. **Communication: 4G Encrypted RF / LTE (Optional Satellite)**
9. **Applications: Surveillance, Defense, Mapping, Security, Logistics**



Training Drone

1. **Flight Time: 15 minutes**
2. **Range: 1 km**
3. **Max Speed: 10 m/s**
4. **Payload Capacity: 10g**
5. **Camera: EO/IR + Thermal**
6. **Autonomy: Waypoint Navigation + Auto RTH**



FPV Training Drone

1. **Flight Time: 15 minutes**
2. **Range: 2 km**
3. **Max Speed: 10 m/s**
4. **Payload Capacity: 50g**
5. **Camera: EO/IR + Thermal**
6. **Autonomy: Waypoint Navigation + Auto RTH**



Air Firing Drone

1. **Flight Time: 40 minutes**
2. **Range: 5 km**
3. **Max Speed: 40 m/s**
4. **Payload Capacity: 15 kg**
5. **Camera: EO/IR + Thermal + 20x Zoom optionable, AR Mapping**
6. **Autonomy: Waypoint Navigation + Auto RTH**
7. **Sensors: GPS, IMU, Obstacle Avoidance**
8. **Communication: 4G Encrypted RF / LTE (Optional Satellite)**
9. **Applications: Surveillance, Defense, Mapping, Security, Logistics**



4 Direction Surveillance Drone

1. Flight Time: 40 minutes
2. Range: 5 km
3. Max Speed: 40 m/s
4. Payload Capacity: 2 kg
5. Camera: 4k 4 Direction, EO/IR + Thermal + 4x Zoom optionable
6. Autonomy: Waypoint Navigation + Auto RTH
7. Sensors: GPS, IMU, Obstacle Avoidance
8. Communication: 4G Encrypted RF / LTE (Optional Satellite)
9. Applications: Surveillance, Defense, Mapping, Security, Logistics



Optical Fiber Drone

1. Flight Time: 40 minutes
2. Range: 5-30 km
3. Max Speed: 40 m/s
4. Payload Capacity: 5g- 2 kg
5. Camera: EO/IR + Thermal + 4x Zoom optional
6. Autonomy: Waypoint Navigation + Auto RTH
7. Applications: Surveillance, Defense, Mapping, Security, Logistics



Night Cop Drone

1. Flight Time: 15 min
2. Range: 3 km
3. Payload Capacity: 800 gm
4. Camera: FPV (Analog / HD optional)
5. Communication: ELRS / Crossfire, 5.8 GHz VTX
6. Applications: Surveillance, delivery, inspection, agriculture



Mini Surveillance Drone

1. **Flight Time: 25–35 minutes**
2. **Range: 1-2 km**
3. **Payload Capacity: 500–800 grams**
4. **Camera: 4K UHD Camera + Night Vision (IR)**
5. **Autonomy: Waypoint Navigation, Follow Me Mode, Auto Return-to-Home (RTH)**
6. **Sensors: GPS, GLONASS, Obstacle Avoidance, Optical Flow, Altitude Sensor**
7. **Communication: Encrypted Digital Link (2.4 GHz / 5.8 GHz), Real-Time HD Video Transmission**
8. **Applications: Surveillance & Security, Law Enforcement, Industrial Inspection, Crowd Monitoring, Search & Rescue**



7-inch FPV Drone

- 1. Flight Time: 15 min**
- 2. Range: 5 km**
- 3. Payload Capacity: 1 kg**
- 4. Camera: FPV (Analog / HD optional)**
- 5. Communication: ELRS / Crossfire, 5.8 GHz VTX**
- 6. Applications: Surveillance, delivery, inspection, agriculture**



10-inch FPV Drone

1. **Flight Time: 15 min**
2. **Range: 5 km**
3. **Payload Capacity: 3 kg**
4. **Camera: FPV (Analog / HD optional)**
5. **Communication: ELRS / Crossfire, 5.8 GHz VTX**
6. **Applications: Surveillance, delivery, inspection, agriculture**



7 KG Cargo Logistics Drone

1. Flight Time: 20- 30 minutes
2. Range: 5- 8 km
3. Payload Capacity: 7 KG
4. Camera: Live HD Camera
5. Autonomy: Waypoint Navigation, Auto Takeoff/Landing, Return-to-Home
6. Sensors: GPS, IMU, Barometer, Obstacle Avoidance
7. Communication: 2.4 GHz / 5.8 GHz, Optional 4G/5G
8. Applications: E-commerce Delivery, Medical Supply, Industrial Logistics, Last-Mile Delivery



Fire Extinguishing Balls

1. Flight Time: 20–35 minutes (depending on payload)
2. Range: 5–10 km operational radius
3. Payload Capacity: 5–10 kg (fire extinguishing balls)
4. Camera: 4K HD Camera with 3-axis gimbal + Optional Thermal Camera
5. Autonomy: GPS waypoint navigation, Auto Return-to-Home (RTL)
6. Sensors: Obstacle avoidance, IR sensor, Ultrasonic, Optional LiDAR
7. Communication: Encrypted RF (2.4/5.8 GHz), 8 km video transmission, Optional 5G/LTE
8. Applications: Firefighting, forest fire control, industrial safety, disaster response



AeroBlade RC Helicopter Special Covid Tested and Trial Kit



1. Landing Gear: Carbon Fiber Skid
2. Motor: Brushless High Torque
3. ESC: 80-160A HV
4. Battery: LiPo 6S-12S (22.2V-44.4V)
5. Flight Controller: Flybarless (FBL) System
6. Servos: Digital Metal Gear (3 Cyclic + 1 Tail)
7. Flight Time: 8-15 Minutes
8. Control Range: 15- 20 km
9. Stabilization: 3-Axis Gyro
10. Payload Capacity: 1-3 kg
11. Applications: Aerial Photography, Surveillance, R&D, Hobby Flying

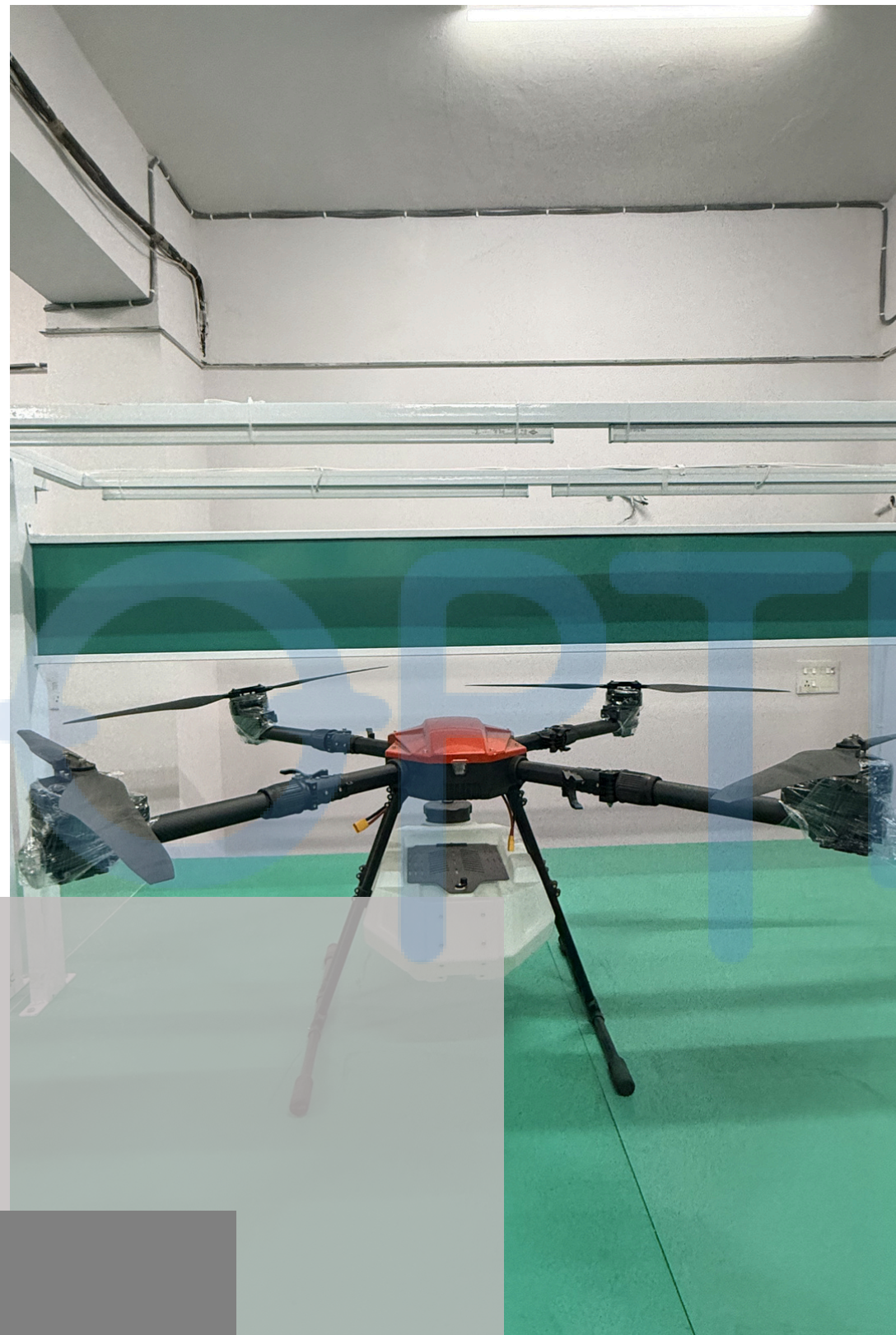


[Govt. COVID-19 Link](#)



20 Ltr Agriculture Drone

1. **Flight Time:** 14.5 minutes (without payload), approximately 7 minutes (fully loaded)
2. **Range:** 4 km (CE)
3. **Payload Capacity:** 20L (spraying)
4. **Camera:** FPV Camera with Binocular Vision System for navigation and obstacle detection
5. **Autonomy:** GPS-based waypoint navigation, automated spraying routes, Return-to-Home (RTH), terrain following capability
6. **Sensors:** 360° Active Phased Array Radar, Binocular Vision System, IMU, GNSS
7. **Communication:** (2.4 GHz / 5.8 GHz) with encrypted digital link
8. **Centrifugal Nozzle Spray**
9. **Applications:** Agricultural spraying, fertilizer spreading, crop monitoring, field mapping, precision farming



16 Ltr agriculture drone

1. **Flight Time: 18–25 min**
2. **Range: 6–8 km**
3. **Payload Capacity: 10 ltr**
4. **Camera: HD FPV wide-angle**
5. **Autonomy: GPS waypoint, auto spray, RTH**
6. **Sensors: Obstacle avoidance, ultrasonic, GPS/IMU**
7. **Communication: 2.4/5.8 GHz encrypted link**
8. **Applications: Crop spraying, fertilizer, pesticide, precision farming**



10 Ltr agriculture drone

1. **Flight Time: 18–25 min**
2. **Range: 6–8 km**
3. **Payload Capacity: 10 ltr**
4. **Camera: HD FPV wide-angle**
5. **Autonomy: GPS waypoint, auto spray, RTH**
6. **Sensors: Obstacle avoidance, ultrasonic, GPS/IMU**
7. **Communication: 2.4/5.8 GHz encrypted link**
8. **Applications: Crop spraying, fertilizer, pesticide, precision farming**



40 Ltr agriculture drone

1. **Flight Time:** 18–25 min
2. **Range:** 6–8 km
3. **Payload Capacity:** 40 ltr
4. **Camera:** HD FPV wide-angle
5. **Autonomy:** GPS waypoint, auto spray, RTH
6. **Sensors:** Obstacle avoidance, ultrasonic, GPS/IMU
7. **Communication:** 2.4/5.8 GHz encrypted link
8. **Applications:** Crop spraying, fertilizer, pesticide, precision farming



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