



INTELLIGENT SOLUTIONS FOR A SAFER WORLD



About

SIDAK DEFENCE

Founded on the principles of innovation and excellence, SIDAK DEFENCE, a group company of SIDAK, has grown into a leading provider of advanced security and surveillance solutions in the defence sector.



Our journey began with a vision to revolutionize the way security is managed and maintained. Over the years, we have expanded our capabilities and product offerings to address the evolving challenges of modern security needs.



SIDAK T-5 Tethered Drone

This drone can fly endlessly without any power interruption or battery failure due to the continuous flow of energy from the ground station. It targets a wide area of operation in unmanned system operations. The Drone's capabilities can be adapted to various payload options, making this unmanned system favorable in all terrain conditions.



Technical Specifications:

All Up Weight	: 20 KGS
Payload	: 5 KGS
Operational Range	: 120 M (AGL)
Absolute Ceiling	: 2000 M AMSL
Endurance	: 6 to 8 Hours (To be extended up to 12 to 24 hours)
Sustainable Wind Speed	: 50 kmph
Propulsion System	: 2.5 Kgs Thrust for each (X8 Configuration)
Tethered System	: Ground Side : 5500 Watts Air Side : 3200 Watts

Features Autonomous Launch and Landing Dual GPS for better stability and redundancy Battery Backup for emergency landing in case of power failure.

Payloads:

1. **Surveillance Camera: EO/IR based Surveillance Camera**
2. **Lighting Drone: Illumination up to 8000 Sq mtrs (80000 lms)**
3. **Communication Drone: WiFi Extender (Point to Point and Point to Multi Point)**
4. **Video streaming (downlink for emergency response, search & rescue)**
5. **Border Patrol using Follow me Feature**



SIDAK T-10 Tethered Drone



Technical Specifications:

All Up Weight	: 30 KGS
Payload	: 10 KGS
Operational Range	: 100 M (AGL)
Absolute Ceiling	: 2500 M AMSL
Endurance	: 6 to 8 Hours (To be extended up to 12 to 24 hours)
Sustainable Wind Speed	: 50 kmph
Propulsion System	: 16 Kgs Thrust Each Motor (Quad Configuration)
Tethered System	: Ground Side : 5500 Watts Air Side : 3500 Watts
Tethered Communication Interface	: 1 Gbps Optical SMF Fiber Interface

Features Autonomous Launch and Landing

Dual GPS for better stability and redundancy

Battery Backup for emergency landing in case of power failure.

Payloads:

1. Lighting Drone: Illumination up to 8000 Sq mtrs (80000 lms)
2. Communications
 - a. Network in Box (NIB)
 - b. DMR (UHF/VHF) Repeater
3. Mesh Drone Networks
4. Rural Network Connectivity
5. Temporary Cell Towers



SIDAK T-30 Tethered Drone



Technical Specifications:

All Up Weight	: 70 KGS
Payload	: 30 KGS
Operational Range	: 100 M (AGL)
Absolute Ceiling	: 2500 M AMSL
Endurance	: 6 to 8 Hours (To be extended up to 12 to 24 hours)
Sustainable Wind Speed	: 50 kmph
Propulsion System	: 16 Kgs Thrust Each Motor (x8 or Hexa Configuration)
Tethered System	: Ground Side : 10 KiloWatts Air Side : 8 KiloWatts
Tethered Communication Interface	: 1 Gbps Optical SMF Fiber Interface

Features Autonomous Launch and Landing Dual GPS for better stability and redundancy Battery Backup for emergency landing in case of power failure

Payloads:

1. Disaster Management

- a. Fire Fighting
- b. Radio Repeaters or Wifi Network upto 2 to 3 KMs
- c. Lighting upto 8000/10000 sq mtrs

2. Commercial Applications

- a. Pollution Control
- b. Façade Cleanings for large commercial buildings
- c. Water curing for mutli-storied building during construction
- d. Communication for Large Gatherings



SIDAK T-50 Tethered Drone



Technical Specifications:

All Up Weight	: 200 KGS
Payload	: 50 KGS
Operational Range	: 100 M (AGL)
Absolute Ceiling	: 2500 M AMSL
Endurance	: 6 to 8 Hours (To be extended up to 12 to 24 hours)
Sustainable Wind Speed	: 50 kmph
Propulsion System	: 100 kgs thrust motor with Quadcopter Configuration
Tethered System	: Ground Side : 30 KiloWatts Air Side : 25 KiloWatts
Tethered Communication Interface	: 1 Gbps Optical SMF Fiber Interface

Features Autonomous Launch and Landing Dual GPS for better stability and redundancy Battery Backup for emergency landing in case of power failure

Payloads:

1. Communication

- a. 5G – gNode B – RRH and Sector Antenna for 5G Communication
- b. Radio Relay Repeater

2. Surveillance

- a. Medium Range Battlefield Surveillance Radar
- b. COMINT & ELINT Receivers

3. Disaster Management: Fire Fighting



SIDAK T-70 Tethered Drone



Technical Specifications:

All Up Weight	: 250 KGS
Payload	: 70 KGS
Operational Range	: 60 to 75 M (AGL)
Absolute Ceiling	: 2500 M AMSL
Endurance	: 4 to 6 Hours (To be extended up to 8 to 12 hours)
Sustainable Wind Speed	: 50 kmph
Propulsion System	: 100 kgs Thrust for each motor with x8 configuration
Tethered System	: Ground Side : 75 KiloWatts Air Side : 60 KiloWatts
Tethered Communication Interface	: 1 Gbps Optical SMF Fiber Interface

Features Autonomous Launch and Landing Dual GPS for better stability and redundancy Battery Backup for emergency landing in case of power failure

Payloads:

1. Surveillance (ISR)

- a. Medium Range Battlefield Surveillance Radar
- b. Radio Relay Repeater

2. Communications

- a. 5G Communications for Private Network





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