CANKUŞ

WATERPROOF SEARCH AND RESCUE DRONES

Enterprise Drone Solutions

WHO WE ARE ?

As Cankus Technology, we are a leading company in the unmanned aerial vehicles (UAV) sector in Antalya. As a team specialized in R&D, manufacturing, technical service and field applications, we offer innovative solutions. Our mission is to provide our customers with safe, efficient and high-performance unmanned aerial vehicles by using the innovative technologies in the sector at the highest level.

Each product we develop is a combination of engineering and design, and can be customized to meet the exact needs of our customers. Our advanced R&D efforts are driven by the goal of excellence in every aspect, from flight performance to data security.

Thanks to our strong infrastructure in technical service and field applications, we ensure that our products operate in a way that offers the highest efficiency and safety in field operations. Our Cankus brand is consolidating its place in the sector as a reliable, innovative and strong partner in the field of unmanned aerial vehicles.

As Cankus Technology, we always prioritize customer satisfaction, follow the developments in the sector closely and constantly renew ourselves. Our goal is to take firm steps towards becoming a company with a say in the global arena.

CANKUS DRONE

Cankus Drone is a high-performance drone designed to overcome the most complex search and rescue missions by adapting to all weather conditions and difficult terrain. Thanks to its advanced sensor technology, integrated security features and versatile remote control system, it offers professionals the opportunity to perform faster, safer and more precise operations.

4K Zoom Camera Thermal + Night vision

IP67 Waterproof and Saltwater resistant

5 KM FHD Image Transmission

Level 7 Wind Resistance

28 Minutes Flight Time

2 kg Load Carrying Capacity

20 m/s Flight Speed

Calibration FREE

- IP67 waterproof

- Internal 5.5" Full HD Color Touch Screen

- Internal GPS for Dynamic Tracking

- Internal Android Operating System

- Internal Flight Data Recorder

- HDMI Output

- Dual WiFi Module

- Waypoint Quests

- Return to Pilot

ALL IN ONE REMOTE CONTROL

Cankus Drone's Remote Control is a highly multifunctional tool that allows professional users to seamlessly interact and expand functionality in various operational scenarios. This advanced remote control allows pilots to edit image data and OSD (On-Screen Display) information from a single central interface. Pilots can also easily plan flight missions. These features provide professionals with superior control and flexibility, maximizing user experience and mission efficiency.

CAMERA PAYLOADS FOR CANKUS

•G03H

4K Gimbal Camera

Sensor: 48MP 1.2″ CMOS Lens: F4.2mm F/2.65, FOV: 93° Max resolution: Video: 4K@60FPS, 3840x2160 | Photo: 4:3 8000x6000 Supporting EIS, LDC, 8X digital zoom Stabilization: 3-axis gimbal

G04

Multi-sensor Camera

Thermal Sensor: 640x512 px, 50/30FPS, -20°C ~ 650°C Laser Range Sensor: 1200 m, ±1 m Visible Light Sensor: 48MP 1/2″ CMOS, FOV 82°, 24 mm EFL, 4K/30FPS, EIS, 8X digital zoom Stabilization: 3-axis gimbal

•G05

Zoom Camera

Sensor: 48MP 1.2″ CMOS
Lens: F3.94mm, F/2.8, DFOV: 93°
Range: 2000 m
Max resolution: Video: 4K@30FPS, 4096x2160 | Photo: 4:3 8000x6000
Supporting EIS, LDC, 30X zoom
Stabilization: 3-axis gimbal

FUNCTIONAL PAYLOADS For CANKUS

**DPL Dual
Payload Release**

Carry and precisely drop 2 payloads at different locations during flight.

DDL Inflatable Lifebuoy

Deployable for twice for more accuracy and better safety.

Dronar Sonar Detector

Measure depth of water bodies, detect underwater objects and underwater structures.

MPE Megaphone

Delivering voice messages with a sound volume of up to 120 decibel and Hi-Fi sound reproduction.

WTL Water Collector

Remotely and precisely collect water samples from a certain area.

Search and Rescue Operations

Challenges of Traditional Methods

● It takes time for crews to accurately assess the size and rate of spread of a fire, and they often have limited visibility.

● Search and rescue teams must search manually to enter narrow spaces, and this process increases time loss and risks.

● Manned search teams have limited visibility and may take a long time to reach missing people due to the difficulty of the terrain.
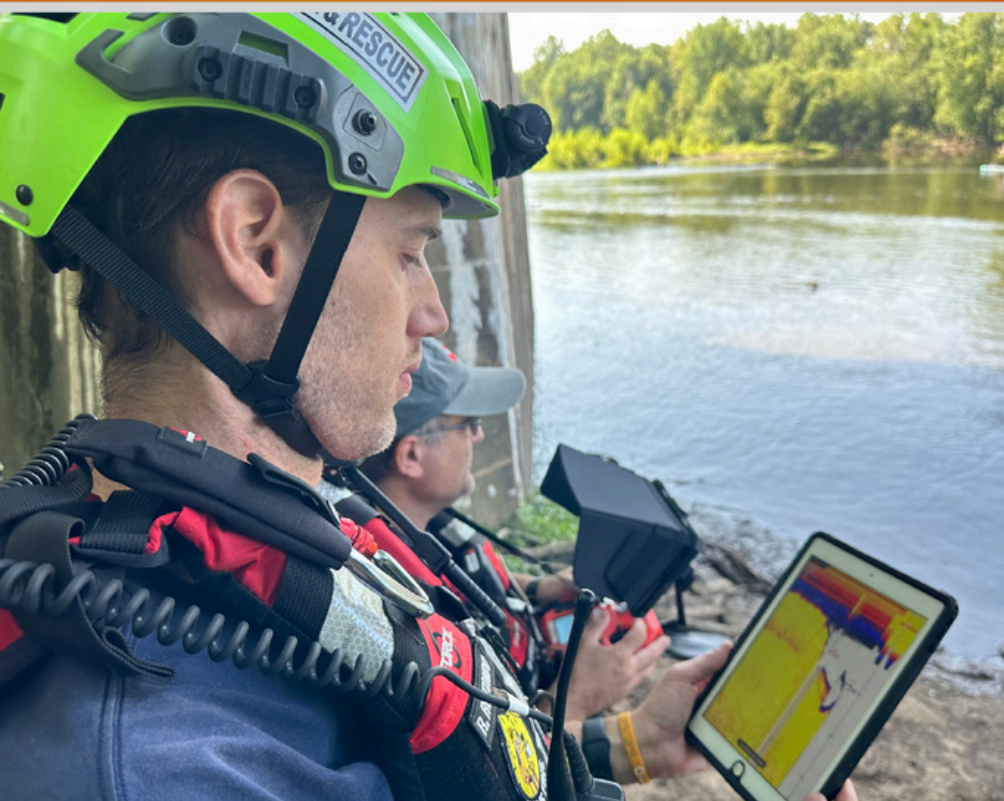
Advantages of Cankus Drone

● Fires and Forest Fires: Thermal cameras detect hot spots in fire areas and monitor the size and spread of the fire, allowing for faster and more accurate intervention.

● Earthquakes and Building Collapses: Thermal imaging is used to detect survivors under building debris. It can also move materials and equipment into tight and inaccessible spaces.

● Searching for Missing Individuals: People lost in forest areas, mountainous areas or during mountaineering activities can be quickly identified.

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Natural Disasters Emergency Responses

Challenges of Traditional Methods

● Rising waters limit the maneuverability of search and rescue teams.

● Transporting materials across difficult terrain and disaster areas is a process that requires manpower and vehicles. In areas that are difficult to access, this process takes a long time.

● The storm makes it difficult for rescue teams to reach the site due to strong winds, rainfall and harsh weather conditions.

Advantages of Cankus Drone

● Floods and Inundations: High-resolution cameras can be used to monitor water levels, map flood zones and develop response plans. Additionally, suspension reels can be used to deliver relief supplies to people trapped in floods.

● Storms and Snow: The Cankus Drone can operate in storms thanks to its design that allows stable flight against strong wind conditions. This is a critical advantage, especially in situations where high wind speeds are effective.

Public Communication and Material Transportation

Challenges of Traditional Methods

- In case of power outages, infrastructure failures and communication lines down, traditional public address systems may not work.
- Trucks, helicopters, or humanitarian aid teams may encounter obstacles such as traffic, road congestion, or damaged infrastructure in transporting supplies to a disaster area.
- More vehicles and personnel may be required to move materials, increasing operational costs.

Advantages of Cankus Drone

- With the megaphone system, it is possible to warn, direct and make evacuation announcements in disaster areas. Drones can make announcements quickly in disaster areas, especially in hard-to-reach areas, and direct civilians to safe areas.
- Drones can quickly deliver basic needs such as medicine, food, and water to disaster areas. They can carry supplies to hard-to-reach areas, mountainous areas, or points under rubble. Relief supplies can be quickly delivered to difficult geographies that would otherwise require long periods of time to advance on land, reducing response times.

Intervention in Drowning Cases

Challenges of Traditional Methods

- The difficulty of lifeguards swimming long distances in choppy waters.
- The intervention is risky due to the body weight of the casualty.
- Boats and helicopters are time consuming, require a large fuel consumption and increase response time.

Advantages of Cankus Drone

- Improved flight stability when carrying heavy loads.
- Help the victim stay alive for a long time until help arrives, thanks to the two-stage lifebuoy release mechanism.
- Rapid delivery to remote locations significantly increases the success of rescue missions.

With Cankus
Deliver life-saving equipment or medical supplies to people in danger.

With Cankus
Release the lifebuoy in two stages: First, touch it to the water and second, make sure the victim is holding on to the lifebuoy.

••• Technical Specifications
Cankus Drone

- Waterproof rating: IP67
- UAV weight (including battery): 2180 g
- Dimensions (axis diameter): 450 mm
- Maximum ascent speed: 4 m/s
- Maximum descent speed: 4 m/s
- Maximum flight speed: ATTI: 20m/s; GPS: 15m/s
- Maximum tilt angle: 25°
- Maximum flight altitude: GPS: 120 m; ATTI: no limitation
- Maximum flight distance: 5000 m
- Maximum load capacity: 2000 g
- Flight time: up to 28 minutes (no wind and no load)
- Maximum wind speed resistance: 72 km/h / 20 m/s / 39 knots
- Satellite positioning system: GPS / Glonass / Galileo
- Motor: 3509 - 740Kv (special coated)
- ESC: 40A
- Propellers: #1242 3K pure carbon fiber
- Operating frequency: 5.180-5.950 GHz
- Verici gücü (EIRP): <33 dBm (FCC), <20 dBm (CE) | <33 dBm (FCC), <14 dBm (CE)
- Working temperature: -10℃~40℃
- Certificates: CE/FCC/ROHS/RCM

••• Technical Specifications

Camera Gimbal

- Waterproof rating: IP67
- Stabilization: 3-axis (tilt, roll, pan)
- Tilt range: -90° to 0°
- Weight: 310 g
- Dimensions: 113*92*110mm
- Image sensor: IMX586 1/2inch 4800W
- Lens: F4.53mm f/2.65, FOV: 92,6°
- ISO range: 100 - 3200
- Video resolution: 4K:60fps | 2.7K:60fps | 1080P:120/60/30fps | 720P: 240/120/60fps
- Photo resolution: 4000*3000 (4:3), 3840*2160 (16:9)
- Maximum video bitrate: 60 Mbps
- Photo format: JPEG / DNG (RAW)
- Video format: MP4 / MOV
- Supported memory card: microSD card with maximum capacity of 128GB, writing speed ≥ 60MB/s, Class 10 or above and UHS-1 rating is recommended
- Working temperature: -10℃ - 40℃

Thermal Light Sensor

- Resolution: 640x512, 30FPS
- Pixel Pitch: 12 μm
- Type: Uncooled Vanadium Oxide Detector
- Wavelength Range: 8～14 μm
- Thermal Sensitivity: -20°C to ~150°C 100°C to ~650°C
- Field of View: 9.1mm Lens，Angle：34.4° x 25.8°

All-Inclusive Support for Customer Success

Technical Support

Get quick help from our technicians for troubleshooting and questions via email, phone, live chat, and documentation.

Local Inventory

We ensure consistent supply of products with fast shipping at local warehouse to meet demands quickly.

Education and Tutorials

Detailed training sessions, videos and manuals for product features, usage, maintenance and repair.

Warranty and Repair

We provide the best service to customers with warranty case management, repair support and spare parts.

Drone Customization

We customize products and develop new technologies to meet the specific needs of our customers.

CANKUŞ

Please contact us with any questions you may have!

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