



云洹网联
YUNHUAN UAV



让天空赋能行业 竞领低空经济新赛道

LEADING THE NEW TRACK OF LOW ALTITUDE ECONOMY COMPETITION

河南云洹网联无人机科技有限公司
HENAN YUNHUAN NETLINK UAV TECHNOLOGY CO.,LTD



ABOUT YUNHUAN UAV

National Mission, Jointly Built by Central and Local Government

Henan Yunhuan Netlink UAV Technology Co., Ltd. (hereinafter referred to as “Yunhuan Netlink”) is a state-owned high-tech enterprise jointly initiated by China Unicom Group and the Anyang Municipal People’s Government, registered and established in Anyang in July 2021. As the core operating entity of the National Civil Unmanned Aerial Vehicle (UAV) Pilot Zone (Anyang), the sole operating carrier for China Unicom’s 5G Ubiquitous Low-Altitude Testing, and an important co-construction unit of Henan Province’s “Blue Sky Laboratory,” the company consistently fulfills the mission of exploring the application and implementation of the low-altitude economy, practically shouldering the significant responsibility of coordinated development between central and local governments.

Over the four years since its establishment, Yunhuan Netlink has closely followed the main line of building the “Four Networks” of the low-altitude economy, adhering to the dual-drive strategy of independent R&D and technological innovation, and continuously constructing an industrial ecosystem covering technology platforms, hardware terminals, and application scenarios. Through innovative R&D, it has formed a UAV low-altitude traffic safety supervision service platform with core intellectual property rights, a series of UAV industry application platforms, and a low-altitude AI data application platform. Simultaneously, it has developed and launched key equipment such as the “Xingkong” series of networked airborne terminals, the YH-630 aerial base station, and remote inspection systems. Based on this, it has verified and created over ten mature application scenarios, including urban governance, police operations, fire rescue, emergency communication, water conservancy inspection, forest fire prevention, pipeline inspection, logistics applications, and transportation/highways. With the above achievements, the company has received high recognition from relevant national ministries and commissions and the Henan provincial government.

Looking to the future, Yunhuan Netlink will adhere to its original mission of “Serving National Strategy, Empowering the Low-Altitude Economy,” focusing on four major areas: low-altitude intelligent networking, low-altitude traffic safety supervision services, low-altitude industry applications, and low-altitude AI data services. It will further deepen key technology R&D and scenario innovation, accelerate the enhancement of market-oriented service capabilities, and fully contribute “Yunhuan Wisdom” to promoting the high-quality, sustainable, and safe development of China’s low-altitude economy.

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COMPANY PROFILE

About Yunhuan

Corporate vision

Becoming a leading technology-driven, data-driven, and platform-based UAV operation service enterprise!

2020.06

China Unicom 5G Ubiquitous Low-Altitude Test Base officially inaugurated.

2020.10

Assisted Anyang Municipal Government in obtaining approval for the "National Civil Unmanned Aerial Vehicle Pilot Zone."

2021.07

Henan Yunhuan Netlink UAV Technology Co., Ltd. established.

2021.07

Pilot Zone UAV Supervision and Service Platform launched.

2021.10

Obtained General Aviation Business Operating Certificate issued by CAAC.

2022.11

5G Connected UAV Cluster Enterprise Standard released.

2023.04

Obtained Civil UAV Pilot Training Organization Qualification Certificate.

2023.05

Successful maiden flight of Unicom Group's core project YH-630 complete system.

2023.08

YH-630 participated in flood rescue efforts in Mentougou, Beijing.

2023.08

Won First Prize in the National Finals of the 6th "Blooming Cup" 5G Application Competition.

2023.11

Released Xingyun UAV Platform and 2nd Gen Xingkong Module products at Zhuhai Airshow.

2023.12

Recognized as Henan Province 5G Emergency Communication Application Demonstration Base.

2020

2021

2022

2023

4

YUNHUAN UAV

Empowering the sky

Core Values

Innovation · Responsibility · Collaboration · Excellence

2024.02

.Obtained Civil Unmanned Aircraft Operator Certificate;
.Obtained Civil UAV System Application Qualification Certificate.

2024.06

Released Xingyun Platform, modules, and other products at World Mobile Congress.

2024.07

Initial version of self-developed Fire Rescue Command and Control Auxiliary Platform released.

2024.09

Networked unit group selected for DJI Industry Ecosystem; Obtained DJI Grade A Distributorship.

2024.10

Initial version of self-developed Integrated Police UAV Operations Platform released.

2024.12

Won Gold Award in the 7th "Blooming Cup" 5G Application Competition.

2025.02

Listed as a Henan Province Specialized, Refined, Distinctive, and New (SRDN) Enterprise.

2025.03

Won GSMA Global Mobile Award (GLOMO) "Best Mobile Innovation for Smart Cities" at World Mobile Congress (MWC 2025).

2025

2024

2 COMPANY QUALIFICATIONS

Henan Province Specialized,
Refined, Distinctive, and
New SME

Henan Province Technology
Transfer Demonstration
Organization

Henan Province Sci-Tech SME

High-Tech Enterprise

Anyang New-Type R&D Institution



Technological Innovation & System Certifications

- **Civil Unmanned Aerial Vehicle Pilot Zone**
- **5G Ubiquitous Low-Altitude Flight Test Base**
- **UAV Innovation Application Demonstration Base**
- **5G Emergency Communication Application Demonstration Base**
- **Henan Province Second Batch 5G Application Scenario Demonstration Project**
- **"UAV Remote Sensing Data Cataloging" Industry Standard**
- **General Technical Requirements for Electric Vertical Take-off and Landing (eVTOL) UAV" Association Standard**
- **"Technical Specification for UAV Unmanned Station System" Association Standard**
- **5G Airborne Edge Computing Terminal" Enterprise Standard**
- **Xingyun UAV Management Platform V1.0 Kylin Software Adaptation Certification**
- **Xingyun UAV Management Platform V1.0 Kunpeng Technology Certification**

Education, Training & Industry-University-Research Cooperation Platforms

- **China Unicom UAV Training Center**
- **Civil Aviation University of China UAV Training Center**
- **Off-Campus Internship Base, School of Transportation Science and Engineering, Civil Aviation University of China**
- **Off-Campus Internship Base, Beihang University**

Operation & Service Capability Qualifications

- **General Aviation Business Operating Certificate**
- **Civil Unmanned Aircraft Operator Certificate**
- **Class B Surveying and Mapping Qualification**
- **Information System Security Level Protection Filing**
- **Civil UAV System Application Training Center Qualification Certificate**
- **Civil UAV Pilot Training Organization Qualification Certificate**
- **DJI Industry Distributor Authorization Certificate**
- **Council Member of National Low-Altitude Economy Safety Development Industry-Education Integration Community**
- **Class A Civil UAV Enterprise Service Capability Qualification**
- **Class A UAV After-Sales Service Specialized Enterprise Service Capability Qualification**
- **Class A UAV Emergency Rescue Specialized Enterprise Service Capability Qualification**
- **AAA Service-Oriented & Creditworthy Enterprise**
- **ISO9001 Quality Management System Certification**
- **ISO14001 Environmental Management System Certification**
- **ISO45001 Occupational Health and Safety Management System Certification**



UTILITY MODEL PATENT



TO BE
CONTINUED

SOFTWARE COPY- RIGHT CERTIFICATE



_5G Real-Time Video Transmission
System V1.0_

_5G Connected Urban Illegal Construction
Inspection System Software V1.0_

_5G Connected Pipeline Inspection
System Platform V1.0_

_5G Connected UAV Global Power Auto-
matic Inspection System V1.0_

_5G Connected UAV Emergency Com-
mand Management System V1.0_

_Special Operations Grassroots Basic
Work Platform V1.0_

_UAV Multi-Channel Video Acquisition
System V1.0_

UAV Flight Positioning System V1.0

UAV Flight Supervision System V1.0

YH-630 UAV Management System V1.0

_5G Connected UAV Airborne Terminal
Ground Control Station Platform_

_5G Connected UAV Airborne Terminal
Management and Control Platform_

_Fire Rescue Command and Control
Auxiliary Platform_

Xingyun UAV Management Platform

COMPANY HONORS



GSMA GLOMO
“最佳移动智慧城市创新”奖项



第七届“绽放杯”
5G应用征集大赛金奖



数字中国2025创新大赛
数字城市赛道数字城市金奖



第六届“绽放杯”
5G应用征集大赛一等奖



国家应急通信演练突出贡献集体



第五届低空经济
与无人系统行业金翼奖

Innovation & Entrepreneurship Awards

(2022) Startup Economy Pioneer Zone Excellence Award
 11th China Innovation Development Pioneer Zone Excellence Award
 14th Hainan Province Innovation & Entrepreneurship Competition Excellence Award
 12th China Innovation Talent Agglomeration Zone First Prize
 15th Hainan Province Innovation & Entrepreneurship Competition Project First Prize
 13th China Innovation Talent Agglomeration Zone Second Prize
 15th Hainan Province Innovation & Entrepreneurship Competition Third Prize
 12th China Innovation Talent Agglomeration Zone Fourth Prize
 _ (2022) Startup Economy Pioneer Zone Second Prize_

5G & Technology Competition Awards

.6th "Blooming Cup" 5G Application Competition First Prize
 7th "Blooming Cup" 5G Application Competition Gold Award
 Henan Province 2024 Quality Production Base 5G Scale Application Typical Solution
 _5G Network UAV Industry Application Solution (Total 30 items).
 _Notice from Henan Provincial Department of Industry and Information Technology Office on Commending Inclusion in the 2024 List of Typical Emergency Equipment Application Promotion Cases (Total 20 items).
 2024 Employee Technological Innovation Achievement Award

Unicom Group Related Awards

.YH-630# Basic Data Research Technology Further Breakthrough
 _Notice on the Selection Results of the 2024 First "China Intelligent Science and Technology Progress Award" and "China Intelligent Technology Standard Award" (Total 20 items).
 Local Sci-Tech Achievements & Cases
 _Support No. 5, Notice on the Announcement of Qualification Certificates and Recognition of Excellent Typical Cases for Assessment and Transformation (Total 30 items).
 UAV & Low-Altitude Economy Decision Making
 _ (2023) China UAV Flight Industry Key Customer Certification Policy_
 _ (2024) National Ministry of Transport, Land Management Committee Issued "Certificate of Honor"
 National Unmanned Aerial Vehicle Detection and Application Training Institution
 5th Low-Altitude Economy & Unmanned Systems Industry Major Award

Other Honors

_.Open Gateway Global Application Scenario Design & Development Competition Excellence Award (Total 20 items).
 National Emergency Communication Equipment Information Carrier
 Best Mobile Smart City Innovation Award
 Digital China 2025 Innovation Competition Digital City Track Gold Award
 9th 2025 World UAV Congress Excellent Organization Award
 _ (2021) Hunan Province Excellent Team_
 _ (2021) Cultural Heritage Digitalization UAV Station Recently Measured Maximum Number Excellent Team Product_
 Chinese Society of Surveying and Mapping Science and Technology Second Prize



3 SERVICE MARKET

Yunhuan Netlink has established nationwide service capabilities: with Zhengzhou headquarters as the core coordinator, it has deeply deployed five major marketing centers in Guangdong, Jiangsu, Hubei, Beijing, and Henan, achieving precise coverage of key markets. Based on the core advantages of “Platform + Networking + AI,” it has built full-chain solutions in six major fields: low-altitude government affairs, police affairs, firefighting, supervision, emergency communication, and UAV payload.



Low-Altitude Application
(Zhengzhou) R&D Center



Shenzhen Intelligent Manufacturing Base

Leveraging three major bases—Zhengzhou R&D, Shenzhen Intelligent Manufacturing, and the Anyang National Unmanned Aerial Vehicle Pilot Zone—to provide end-to-end intelligent operation capabilities of “UAV + Smart Hangar + Flight Services,” empowering the efficient and safe development of the national low-altitude industry.



4 PRODUCTS

Platform Products

01 Low-Altitude Traffic Safety Supervision Service Platform

02 5G Connected UAV Industry Application Platform

03 UAV Low-Altitude Government Affairs Application Platform

04 Integrated Police UAV Operations Platform

05 Fire Rescue Command and Control Auxiliary Platform

06 Low-Altitude AI Data Application Platform

Hardware Products

YH-630 Aerial Base Station & Remote Inspection System

Xingkong Module Xingkong Series Networked Terminals

Vanguard System Air-Ground Coordinated Portable Reconnaissance Command Communication System

C300 | Meets deployment requirements for UAV hangars across various industries.

Industry Solutions

LOGISTICS APPLICATION

FOREST FIRE PREVENTION

PIPELINE INSPECTION

WATER CONSERVANCY INSPECTION

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YUNHUAN UAV

Empowering the industry with the sky

PLATFORM PRODUCTS

Low-Altitude Traffic Safety Supervision Service Platform

Facing the demands of urban low-altitude 3D transportation and refined UAV operations, it constructs an integrated air-space-ground low-altitude operation monitoring and safety management system. The platform integrates multi-source heterogeneous data such as low-altitude communication, navigation, meteorology, surveillance, and 5G-A low-altitude intelligent networking, possessing full-process supervision capabilities for cooperative targets and detection and coordinated countermeasure capabilities for non-cooperative targets, comprehensively supporting the closed-loop management of “pre-approval, in-process supervision, post-traceability.”

The platform supports connection to the national UOM system and has been deployed and operated in the National Civil Unmanned Aerial Vehicle Pilot Zone (Anyang), forming modular functions for different scenarios including airspace and route refined management, flight activity management, flight supervision and intelligent early warning, aeronautical information services, meteorological monitoring, monitoring and countermeasures, etc.

Advantages & Features

Multi-level Airspace Refined Management Capability

Precise zoning and dynamic management of no-fly zones, restricted zones, suitable flight zones, etc. Supports hierarchical supervision according to administrative levels and industry responsibilities.

Multi-End Synchronization & Multi-Role Collaborative Management

Supports PC, mobile, and large supervision screens with real-time data sync. Enables multi-role collaboration like command monitoring, pilot execution, and approval processing.

Intelligent Warning & Risk Prediction Mechanism

Automatically identifies risks like deviation, boundary violation, abnormal trajectory. Generates warnings and response suggestions based on airspace rules and flight status.

Full-Element Integrated Service Platform

Integrates low-altitude intelligent networking data, weather services, aeronautical info, airspace management, flight approval, identification, and countermeasures. A closed-loop “Communication-Navigation-Surveillance-Flight Services-Supervision & Disposal” support system.

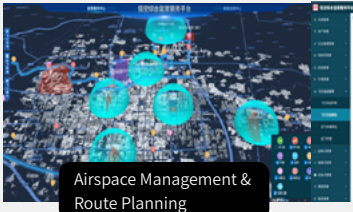
High-Performance Data Access & Analysis Capability

Supports access and analysis of flight data, telemetry, and logs from tens of thousands of UAVs. Built-in mission evaluation and statistical analysis models support flight efficiency optimization, operation tracking, and warning log tracing.

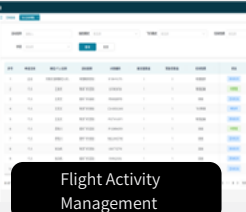
Permission Configuration & Secure Access Mechanism

Supports multi-level user systems and role-based permissions. Comprehensive user authentication and access control with real-name authentication, national cryptographic algorithms, etc.

Core Functions



Airspace Management & Route Planning



Flight Activity Management



Non-Cooperative Target Detection & Countermeasure Linkage



Visualized Data Statistics Dashboard



Multi-Modal Data Fusion

Application Scenarios



Pilot Zone Supervision (e.g., Anyang Pilot Zone)



Flight Test Ranges & Training Fields



Low-Altitude Transportation Supervision



Local Government Low-Altitude Supervision



General Aviation Service Station Flight Monitoring



Low-Altitude Operation Management Companies

PLATFORM PRODUCTS

Xingyun Platform · 5G Connected UAV Industry Application Platform

The platform deeply integrates UAV intelligent inspection, 3D geographic information fusion, AI automated detection, and full-process closed-loop management capabilities. It has passed domestic operating system/server adaptation certifications and National Information Security Level Protection (Level 2) assessment, ensuring security and controllability.

The platform is compatible with mainstream UAV models like DJI, XAG, JOUAV, and others, fully supporting 5G network communication, real-time airspace situational awareness, intelligent route planning, and centimeter-level high-precision 3D modeling. Its built-in AI training platform allows users to train models independently, achieving intelligent and precise identification of 128 types of equipment defects (identification accuracy rate 98.6%).

Advantages & Features

★ End-Network Coordination

Command transmission
<200ms, video delay
≤300ms.

★ Domestication Certification

Passed domestic OS/
server adaptation & Level 2
protection.

★ AI Precise Identification

Identifies 128 types of
equipment defects intelligently
and precisely; accuracy rate
98.6%.

★ Automated Operation Scheduling

Enables automatic
alarm-triggered flights
and scheduled automatic
flights.

Core Functions



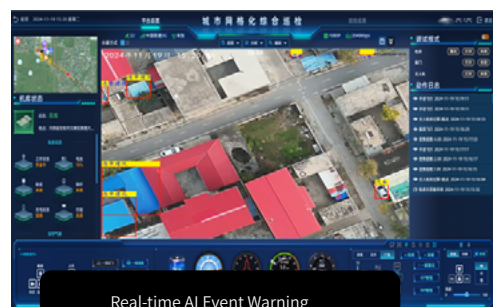
3D Data Fusion Technology (supports
ortho, oblique, BIM, LiDAR point cloud)



Panoramic Auto-Publishing



Vector Data Auto-Overlay



Real-time AI Event Warning

Application Scenarios

- * Oil/Gas Pipeline Inspection
- * Water Conservancy & River Inspection
- * Power Line, Tower, Substation Inspection
- * Transportation & Logistics Supervision
- * Urban Comprehensive Management
- * Geographic Mapping / Land Titling
- * Emergency Rescue Command

PLATFORM PRODUCTS

UAV Low-Altitude Government Affairs Application Platform

Based on the capabilities of the Xingyun Platform and deeply integrated with government affairs scenarios, it creates an intelligent UAV inspection platform. The platform integrates over 20 AI algorithms and intelligent data processing capabilities, pioneering the “One Flight, Multiple Uses, Multi-Department Collaboration” patrol model. Core functions include intelligent mission planning, real-time data collection and analysis, precise target identification and positioning, event warning push, and closed-loop disposal management. It deeply empowers grassroots governance like urban management, environmental monitoring, and real-time inspection, significantly improving governance efficiency and resource value. The platform is feature-complete, technologically leading, stable, and reliable, winning Gold Awards in the “Blooming Cup” 5G Application Competition in both 2023 and 2024. It maintains a leading industry position in the field of UAV urban comprehensive applications.

Advantages & Features



Data Fusion & Technology Sharing

Integrates UAV-collected images, videos, etc., with data from other sources (e.g., surveillance cameras, sensors).



Intelligent Route Planning

Plans 3D paths in 3D GIS maps, automatically selecting the fastest, lowest-risk routes and locking targets for photography.



Automatic Scheduling Algorithm

Achieves intelligent UAV task allocation in complex environments through dynamic path planning, resource optimization scheduling, and priority decision models.



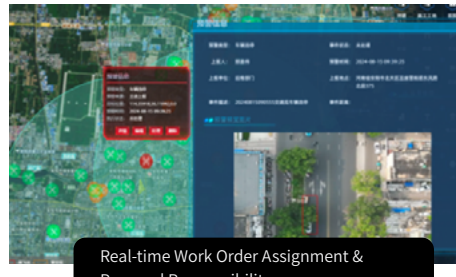
AI Monitoring & Target Identification

Rapid detection, classification, and coordinate calculation of dynamic targets. Position info is linked via low-latency 5G/microwave to GIS(E) to generate signals, pushed in real-time to command terminals/platforms for disposal.

Core Functions



Grid-based Automatic Inspection



Real-time Work Order Assignment & Personal Responsibility



Multi-Department Data Sharing



UAV Automated Hangar Cluster Scheduling

Application Scenarios

- * Urban Exposed Soil & Dust Monitoring
- * Cultural Tourism Inspection / Construction Site Monitoring
- * Emergency Rescue / Land Law Enforcement
- * Road Traffic Management
- * Ecological Environment Monitoring / Water Conservancy Inspection
- * Illegal Construction Inspection / Urban Appearance Management

Integrated Police UAV Operations Platform

A full-police-type practical platform that deeply integrates UAV technology with police operations, connecting all applicable police equipment. It implements the strategic goal of “Police Posing Problems, Labs Solving, Enterprises Transforming, Police Applying.” It is the only self-developed nationwide full-police-type practical platform. Using the Public Security Intelligence Center as the hub, it breaks down barriers between platforms, achieves two-way interconnection between the 110 command system and the operations platform, and integrates ten functional modules (Police Flight, Integrated Operations, Detection & Countermeasures, etc.), covering all police services including public order, traffic police, criminal investigation, intelligence, and drug enforcement.

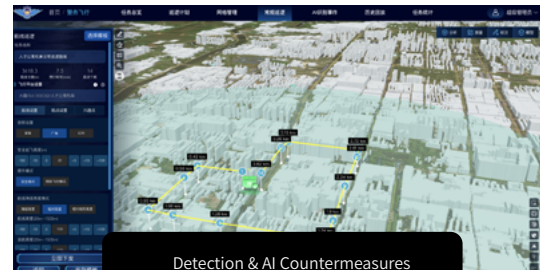
Advantages & Features

- ★ **“135” Rapid Response** 1-minute rapid response initiation, 3-minute arrival on scene, 5-minute coordinated operations.
- ★ **Full Police-Type Coverage** Supports 10 functional modules including Public Order, Criminal Investigation, Traffic Police, etc.
- ★ **Ministerial Recognition** Received research guidance, construction support, and recognition from ministerial and provincial departments.

Core Functions



Automatic Route Planning & Task Assignment



Detection & AI Countermeasures



Air-Ground Integrated Operations Command



Application Scenarios regulation

Application Scenarios

- * Oil/Gas Pipeline Inspection * Water Conservancy & River Inspection * Power Line, Tower, Substation Inspection
- * Transportation & Logistics Supervision * Urban Comprehensive Management * Geographic Mapping / Land Titling * Emergency Rescue Command

PLATFORM PRODUCTS

Fire Rescue Command and Control Auxiliary Platform

A full closed-loop “Pre-Event - During Event - Post-Event” rescue platform jointly developed with the Key Laboratory of UAV Emergency Rescue Technology, Ministry of Emergency Management, promoting the transformation of the firefighting model from “passive response” to “active prevention and control.” Jointly developed with the China Fire and Rescue Institute and the Key Laboratory, it builds a full closed-loop system of “Pre-Event Prevention - Event Response - Post-Event Assessment,” promoting the transition from passive response to active prevention and control in fire rescue. This task-based, all-element intelligent command information system focuses on specific fire emergency scenarios, real demands, existing pain points, and actual cases. From the commander’s perspective, it aggregates multi-source heterogeneous data including various UAVs, cameras, deployment balls, firefighting task data, and geographic information, integrating advanced technologies like AI, big data, and edge computing. It provides commanders with multi-dimensional on-site information and effective data, enhancing rescue command efficiency and the scientific, precise, and intelligent nature of emergency response through the platform’s auxiliary analysis tools.

Advantages & Features

- ★ **Combat Verified** Piloted and implemented in multiple local fire rescue detachments.
- ★ **Automatic Dispatch & Reconnaissance** Upon receiving an alarm, the system automatically determines the grid area, dispatches UAVs for automatic takeoff, and plans routes for reconnaissance.
- ★ **Panoramic Situation Fusion** Complete recording of the task process, traceable core nodes, providing basis for on-site operations, post-action review, and assessment.

Core Functions



Video fusion projection



Automatic flight adjustment upon receiving alarm



UAV Cluster Scheduling



Fire situation awareness

Application Scenarios

- * Disasters covering large areas: earthquakes, floods, mudslides. * Real-time forest fire reconnaissance & burned area assessment.
- * Major disasters with complex, changing situations. * Dynamic simulation of chemical plant explosion disasters.
- * High-rise building rescue path planning. * Urban disaster scenarios.

Low-Altitude AI Data Application Platform

AI algorithms are realized through technologies like machine learning, deep learning, and reinforcement learning. Against the backdrop of data-driven decision-making, intelligent upgrade trends, market competition pressure, and diversified customer needs, the AI Algorithm Service Platform provides users with efficient and reliable AI algorithm services, helping various industries achieve intelligent upgrades.

Rich AI algorithm library, supports custom algorithms. Provides API interfaces to users via cloud platform services.

PLATFORM PRODUCTS



A rich library of AI algorithms, supporting custom algorithms, provides API interfaces to users through cloud platform services



AI APPLICATION SCENARIOS

Public Safety Intelligent Monitoring: Crime investigation, target detection & recognition, facial recognition, etc., improving public safety and management efficiency.

Traffic Intelligent Monitoring Management: Traffic flow monitoring, traffic violation identification, optimizing traffic management, improving safety.

Urban Construction Order Monitoring: Illegal construction detection, environmental hygiene monitoring, maintaining urban construction order, enhancing urban environment quality.

Power Equipment Intelligent Inspection: Power line inspection, equipment anomaly detection, ensuring safe and stable power system operation.

Water Resources Intelligent Management: Water quality monitoring, water resource management, enhancing water quality management and sustainability.

Logistics & Warehouse Environment Monitoring: In logistics, warehousing, etc., for cargo tracking, environmental monitoring, improving operational efficiency.

硬件类产品

Xingkong Series Networked Terminals

ADDRESSING ISSUES SUCH AS HOW BUSINESS DATA INTERFACES WITH THE CLOUD, HOW SUPERVISION SYSTEMS ACHIEVE TRACEABILITY AND CONTROLLABILITY, AND SEVERE WIRELESS DATA TRANSMISSION INTERFERENCE IN URBAN ENVIRONMENTS, SEVERAL TERMINALS HAVE BEEN DEVELOPED BASED ON ACTUAL INDUSTRY APPLICATION NEEDS, SIMULTANEOUSLY MEETING FUNCTIONS LIKE UAV NETWORKED DATA TRANSMISSION, NETWORKED CONTROL, AND EDGE AI RECOGNITION.



Product Function: Compatible with DJI M30/M300/M350. Supports real-time video transmission, control. Supports 4G/5G/5G REDCAP communication. Supports WEBRTC and GB28181; users can choose video transmission protocol.

Usage Scenarios: Urban Governance - Low-Altitude Inspection - Police & Fire

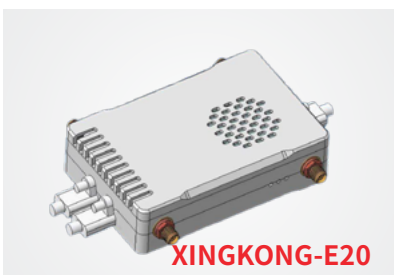
Target Customers: DJI Industry Customers · Public Security Departments · Power Grid, Water Conservancy, Oil & Gas units



Product Function: Compatible with DJI MAVIC 3 Enterprise / M3TD. Supports real-time video transmission, control. Supports 4G/5G/5G REDCAP communication. Supports WEBRTC and GB28181; users can choose video transmission protocol.

Usage Scenarios: Urban Governance - Low-Altitude Inspection - Police & Fire

Target Customers: DJI Industry Customers · Public Security Departments · Power Grid, Water Conservancy, Oil & Gas units



Product Function: Compatible with DJI MATRICE 350 / MATRICE 400 / Matrice 300 / Matrice 30. 157 TOPS computing power. Supports 4G/5G/5G REDCAP.

Usage Scenarios: Urban Governance - Low-Altitude Inspection - Police & Fire

Target Customers: DJI Industry Customers · Public Security Departments · Power Grid, Water Conservancy, Oil & Gas units



Product Function: Compatible with all non-DJI models / Supports real-time video transmission / Supports 4G/5G/5G REDCAP communication / Supports WEBRTC video transmission protocol.

Usage Scenarios: Urban Governance - Low-Altitude Inspection - Police & Fire

Target Customers: UAV Manufacturers / Flight Controller Manufacturers / Gimbal Manufacturers

YH-630 Aerial Base Station & Remote Inspection System

This system is a company self-developed large oil-powered long-endurance composite vertical take-off and landing (VTOL) UAV. It adopts a composite wing overall structure combining fixed-wing and quadrotor, integrating the long endurance, high speed, and long range of fixed-wing UAVs with the vertical take-off and landing capability of rotor UAVs. The YH-630 is equipped with an industrial-grade VTOL fixed-wing flight control and navigation system and professional aerial photography, surveying, and inspection ground station software, enabling fully autonomous flight without human intervention for takeoff, flight mode transition, cruise, landing, etc. Additionally, the VTOL capability greatly enhances the UAV's environmental adaptability, allowing it to operate smoothly in complex terrains and environments like forests, mountains, deserts, border areas, and oceans, significantly expanding its application range. It is an ideal choice for industrial-grade UAVs.



指标	参数	指标	参数
翼展	6.3米	巡航速度	120~140km/h
机身长度	3.7米	起飞海拔	≥2000米
起飞重量	135kg	实用升限	≥4000米
最大载重	30kg	定位方式	北斗定位
续航时间	6小时	作业半径	600km
起降抗侧风能力	≥8m/s	空中抗风能力	≥15m/s
通信方式	4G/5G/微波/卫通	气象环境	-20 — +45°C
载荷供电能力	≥600W	抗恶劣天气能力	小雨飞行

UAV RESOURCE MANAGEMENT: CENTRALIZED MANAGEMENT OF BASIC DATA FOR VARIOUS UAVS WITHIN THE PROVINCIAL SYSTEM, INCLUDING DEPLOYMENT LOCATIONS, TEAM INFO, CONTACT INFO, PAYLOAD INFO, MAINTENANCE INFO.

EMERGENCY COMMAND DISPATCH: REMOTE MONITORING AND REAL-TIME COMMAND DISPATCH OF VARIOUS UAVS. PLANS FLIGHT MISSIONS, MANAGES TASKS, AND TRACKS THEM BASED ON AERIAL EMERGENCY RESCUE NEEDS AND SURROUNDING UAV RESOURCES. ENABLES INTELLIGENT UAV USAGE MANAGEMENT TO MEET RAPID, SCIENTIFIC RESPONSE REQUIREMENTS.

STATUS & DATA MANAGEMENT: VISUALIZES REAL-TIME FLIGHT DATA, RECONNAISSANCE DATA, ETC., TRANSMITTED DURING UAV MISSIONS, AND CAN LINK WITH SYSTEMS LIKE THE EMERGENCY COMMAND “ONE MAP.” PROCESSES, STATISTICS, AND ANALYZES FLIGHT AND RECONNAISSANCE DATA FOR UAV ACTIVITY EVALUATION AND MANAGEMENT DECISIONS.



THE YH-630 IS EQUIPPED WITH PDT BASE STATIONS (370MHZ), ELECTRO-OPTICAL PODS, SELF-ORGANIZING NETWORK GATEWAYS, AND SATELLITE COMMUNICATION SYSTEMS TO BUILD BROADBAND OR NARROWBAND COMMUNICATION NETWORKS, ENSURING VIDEO OR VOICE COMMAND AND DISPATCH FOR SMALL AND MEDIUM-SIZED RESCUE OPERATIONS. THE YH-630 COVERS THE GROUND IN THE AIR AND PROVIDES RELAY COMMUNICATION FOR HANDHELD WALKIE TALKIES. THE AIRBORNE SELF-ORGANIZING NETWORK GATEWAY FORMS AN INTRANET WITH GROUND INDIVIDUAL/VEHICLE MOUNTED SELF-ORGANIZING NETWORK BASE STATIONS, AND DRONE VIDEOS CAN BE TRANSMITTED TO THE CLOUD PLATFORM THROUGH SATELLITE LINKS OR DEDICATED SELF-ORGANIZING NETWORK NETWORKS.



YH-630-Emergency Rescue

USAGE SCENARIO: CAN BE WIDELY APPLIED TO EMERGENCY RESCUE COMMUNICATION SUPPORT SCENARIOS IN DISASTER STRICKEN AREAS SUCH AS EARTHQUAKES, TYPHOONS, FLOODS, MUDSLIDES, ETC

APPLICABLE SCENARIOS: EMERGENCY DEPARTMENTS, PROVINCIAL EMERGENCY DEPARTMENTS, AND THEIR RELATED EMERGENCY RESCUE AGENCIES; MOBILE COMMUNICATION BUREAU OF OPERATORS; CUSTOMERS IN INDUSTRIES SUCH AS ELECTRICITY, FOREST FIREFIGHTING, AND MINING.

PARTICIPATED IN NATIONAL PRACTICAL EXERCISES AND EMERGENCY COMMUNICATION SUPPORT: HENAN (ZHENGZHOU, ANYANG, XINYANG, KAIFENG, PINGDINGSHAN), FUJIAN, GUANGDONG, HAINAN, SHANXI, ZHEJIANG, SHANDONG, CHONGQING, ETC.



July 2023 Beijing Mentougou Emergency Rescue Actual Deployment



April 2024 Guangdong Shaoguan Emergency Rescue Actual Deployment



September 2024 Hainan Wenchang Emergency Rescue Actual Deployment

Vanguard System

Air-Ground Coordinated Portable Reconnaissance Command Communication System for Emergency Scenarios

The Vanguard System primarily addresses communication and coordination challenges in “Three Disconnections” (broken road, power outage, communication loss) extreme environments during emergency rescue and special operations. It breaks through key technical bottlenecks like terrain obstruction, equipment coordination, and beyond-visual-range operations, constructing an integrated air-ground reconnaissance, communication, and command system.

Core Functions

Air-Ground Integrated Architecture: Integrates UAVs, quadruped robots, wireless broadband mesh networking, multimedia command and dispatch technology, achieving integrated deployment of reconnaissance & monitoring, communication relay, and command & control functions.

Rapid Equipment Adaptation: Through standardized quick-install modules, compatible with mainstream industry UAV platforms, plug-and-play upgrade of relay communication and remote control capabilities, simplifying field deployment.

Intelligent Mission Planning: Mission planning platform based on high-performance ground information database, built-in intelligent mapping tools, supports non-professionals in quickly completing area situation assessment and operation plan formulation.

Multi-End Collaborative Network: Establishes a dynamic networking mechanism for air-ground nodes, achieving real-time situation sharing and command interaction between UAVs, ground robots, and portable terminals, creating a unified frontline command view.

Anti-Obscuration BVLOS Communication: Establishes a dynamic networking mechanism for air-ground nodes, achieving real-time situation sharing and command interaction between UAVs, ground robots, and portable terminals, creating a unified frontline command view.

Components



Airborne Node

Fighter-AB10 is the airborne mesh node. Based on MESH communication tech, uses SDR architecture, features large bandwidth, long range, flexible networking.



Portable Handheld

Ground mesh handheld station Fighter-SP10 for ground personnel. Integrated design, built-in removable battery. Supports handheld, tripod, vehicle use.



Portable Backpack

Ground mesh backpack station Fighter-BP10 for ground personnel. Integrated design, built-in removable battery. Supports backpack, tripod, vehicle use.



Forward Command Node

Ground Command Control Unit Fighter-GCU100, integrated design, core of the system, used by forward command for communication dispatch and UAV control.

Application Value

Breaking through the communication distance limitations and collaborative efficiency bottlenecks of traditional individual equipment, providing all-weather, all terrain, and all element air ground integrated combat support capabilities for emergency rescue, special reconnaissance, and other scenarios.

硬件类产品

Automated hangar C300



Automated hangar C300

5G AUTOMATED HANGAR

INNOVATE THE OPERATION MODE OF UNMANNED AERIAL VEHICLES, ACHIEVE DEEP INTEGRATION OF DJI M30/300/350 SERIES UNMANNED AERIAL VEHICLES AND 5G AIRBORNE TERMINALS THROUGHOUT THE ENTIRE PROCESS, INTEGRATE INTELLIGENT RECHARGEABLE HANGARS (UNDER DEVELOPMENT FOR BATTERY SWAPPING), AND BUILD A COMPLETE UNMANNED AERIAL VEHICLE AUTOMATIC FLIGHT AND OPERATION SYSTEM TO MEET THE EFFICIENT DEPLOYMENT NEEDS OF MULTIPLE INDUSTRIES.



remote control

Remote real-time control of aircraft takeoff and landing, flight trajectory setting, and route task planning on unmanned aerial vehicle platforms.



Autonomous cruising

The drone flies automatically according to the preset inspection route, and can set patrol information such as trajectory and inspection targets, achieving completely unmanned autonomous flight.



Autonomous landing

The onboard terminal of the drone is equipped with a QR code visual recognition algorithm to achieve precise positioning and automatically execute landing operations.



Automatic duty

After completing the homework, the drone automatically returns to the cabin and completes charging (or swapping) on its own, effectively replacing manual on-site operations and improving work efficiency.



Multi point jumping

By deploying multiple airports, the drone jumping function can be achieved, enabling airport frog jumping relay flight and meeting the needs of long-distance inspections.



Anti interference and strike

Drones and airports can switch to 4G/5G mobile network transmission to block radio waves that interfere with 2.4G/5.8G frequency bands, ensuring drone flight safety and avoiding malicious attacks.

Industry Solutions

APPLICATION SCENARIO - LOGISTICS APPLICATIONS

BLUE SKY EXPRESS

THE COMPANY HAS INNOVATIVELY CREATED THE “BLUE SKY EXPRESS” DRONE LOGISTICS BRAND IN ANYANG, TAKING THE LEAD IN BUILDING THREE TYPES OF AVIATION LOGISTICS NETWORKS: MOUNTAINOUS LOGISTICS, MEDICAL DISTRIBUTION, AND CULTURAL TOURISM LOGISTICS. CURRENTLY, MORE THAN 20 AIR LOGISTICS ROUTES HAVE BEEN OPENED. THE APPLICATION OF DRONE LOGISTICS HAS SHOWN GREAT POTENTIAL IN SHORTENING DELIVERY TIME, IMPROVING EFFICIENCY, AND REDUCING LABOR COSTS.



LOGISTICS IN MOUNTAINOUS AREAS

LINZHOU CITY - SHIBIYANSHAN DISTRICT
PARTY NEWSPAPERS AND MAGAZINES/SMALL PACKAGES
DELIVERY TO GRASSROOTS LEVEL
HALF A DAY IN ADVANCE
2 HOURS SHORTENED TO 20 MINUTES



MEDICAL DELIVERY

CENTRAL BLOOD STATION - HOSPITAL - SERVICE AREA
SET UP AN AERIAL EMERGENCY LIFELINE
TRANSPORTATION EFFICIENCY CAN BE IMPROVED BY MORE THAN 50%



GLOMO BEST CITY MOBILE INNOVATION AWARD AT THE MOBILE WORLD CONGRESS (MWC 2025)



CULTURAL TOURISM LOGISTICS

YIN DYNASTY RUINS
NEW INTERNET CELEBRITY CHECK-IN POINTS



APPLICATION SCENARIO - FOREST FIRE PREVENTION

USING DRONES TO CARRY OUT FOREST AND GRASS PATROL WORK, QUICKLY DETECTING AND LOCATING SMOKE, FIRE POINTS AND OTHER INFORMATION, WHILE ADOPTING INFORMATION TECHNOLOGY TO STANDARDIZE FOREST AND GRASS PATROL MANAGEMENT BUSINESS, BASED ON "GIS ONE MAP" TO ACHIEVE TRACEABILITY OF INSPECTION TASK DETAILS, AND IMPROVE THE LEVEL OF FOREST AND GRASS PROTECTION MANAGEMENT.



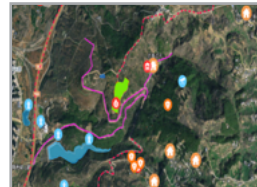
Inspection statistics and analysis



Real time monitoring of drones



AI automatically recognizes smoke/fire



Special Map of Fire Prevention Resources



Automatically generate patrol reports

APPLICABLE SCENARIOS

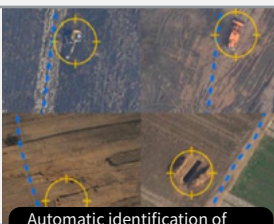
FOREST INSPECTION, FIRE SAFETY PROMOTION, ON-SITE INVESTIGATION OF DISASTER SITUATIONS, POST DISASTER ASSESSMENT, PROTECTION OF WILDLIFE AND PLANTS, DETECTION OF PESTS AND DISEASES ..

APPLICATION SCENARIO - PIPELINE INSPECTION

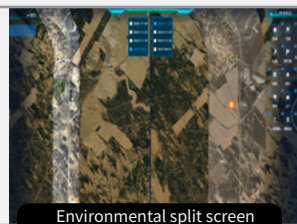
USING DRONES TO CONDUCT DRONE INSPECTIONS ON OIL AND GAS PIPELINES EFFECTIVELY SUPPLEMENTS THE LIMITATIONS OF MANUAL INSPECTIONS. BY RELYING ON ARTIFICIAL INTELLIGENCE AND COMPUTER VISION TECHNOLOGY, WE CAN QUICKLY IDENTIFY AND LOCATE HIDDEN DANGER INFORMATION, IMPROVE PIPELINE SAFETY MANAGEMENT LEVEL, AND CREATE A SCIENTIFIC, EFFICIENT, AND THREE-DIMENSIONAL PROTECTION SYSTEM.



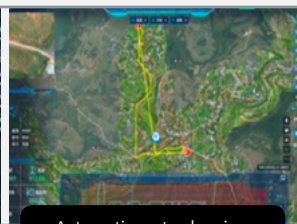
Pipeline AR overlay



Automatic identification of hidden dangers



Environmental split screen comparison



Automatic route planning



Pipeline operation and maintenance

APPLICABLE SCENARIOS

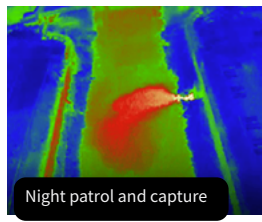
RIVER INSPECTION, SCREENING OF "FOUR DISORDERLY" RESERVOIRS, SECURITY PATROLS FOR MAJOR WATER CONSERVANCY FACILITIES, FLOOD PREVENTION AND DROUGHT RESISTANCE PATROLS, AND PRE FLOOD FLOOD PREVENTION INSPECTIONS EMERGENCY PATROL OF URBAN WATER CONSERVANCY ELECTRONIC ARCHIVES DURING FLOOD SEASON

APPLICATION SCENARIO - WATER CONSERVANCY INSPECTION

USING DRONES TO CONDUCT UNMANNED AERIAL VEHICLE INSPECTIONS ON RIVERS, WATER INFRASTRUCTURE, AND OTHER AREAS, REPLACING THE INEFFICIENT, UNATTAINABLE, AND HIGH-RISK WORK THAT EXISTS IN MANUAL INSPECTIONS. BY RELYING ON ARTIFICIAL INTELLIGENCE AND COMPUTER VISION TECHNOLOGY, WE CAN QUICKLY IDENTIFY AND LOCATE HIDDEN DANGER INFORMATION, IMPROVE PIPELINE SAFETY MANAGEMENT LEVEL, AND CREATE A SCIENTIFIC, EFFICIENT, AND THREE-DIMENSIONAL PROTECTION SYSTEM.



Water conservancy electronic archives



Night patrol and capture



incident handling



720VR panoramic view



refined modeling

APPLICABLE SCENARIOS

RIVER INSPECTION, SCREENING OF "FOUR DISORDERLY" RESERVOIRS, SECURITY PATROLS FOR MAJOR WATER CONSERVANCY FACILITIES, FLOOD PREVENTION AND DROUGHT RESISTANCE PATROLS, FLOOD PREVENTION INSPECTIONS IN THE EARLY STAGE OF THE FLOOD SEASON, AND EMERGENCY PATROLS DURING THE FLOOD SEASON URBAN WATER CONSERVANCY ELECTRONIC ARCHIVES

Talent Development · Yunhuan College

IN ORDER TO MEET THE REQUIREMENTS OF HIGH-QUALITY DRONE FLIGHT TALENTS FOR THE DEVELOPMENT OF LOW ALTITUDE ECONOMY AND THE PROMOTION OF DRONE INDUSTRY APPLICATIONS, YUNHUAN COMPANY ESTABLISHED YUNHUAN ACADEMY IN JULY 2023 TO CARRY OUT CIVIL DRONE DRIVER LICENSE (CAAC) CERTIFICATION TRAINING, CIVIL DRONE PILOT QUALIFICATION CERTIFICATE (AOPA) CERTIFICATION TRAINING, AND DRONE INDUSTRY APPLICATION PILOT TRAINING BASED ON YUNHUAN COMPANY'S RESEARCH AND DEVELOPMENT PLATFORM. THE TRAINING TYPES INCLUDE: SMALL AND MEDIUM-SIZED MULTI ROTOR WITHIN LINE OF SIGHT PILOTS, BEYOND LINE OF SIGHT PILOTS; SMALL AND MEDIUM-SIZED FIXED WING BEYOND VISUAL RANGE PILOTS; SMALL AND MEDIUM-SIZED VERTICAL TAKEOFF AND LANDING FIXED WING OVER THE LINE OF SIGHT PILOTS. THE POSITIONING OF YUNHUAN ACADEMY BY YUNHUAN COMPANY IS AN IMPORTANT BUSINESS UNIT FOR EXPORTING HIGH-QUALITY INDUSTRY APPLICATION FLIGHT TALENTS TO VARIOUS INDUSTRIES, WHICH IS AN IMPORTANT SUPPORT FOR THE STRATEGIC IMPLEMENTATION OF YUNHUAN COMPANY. THE DEVELOPMENT VISION OF YUNHUAN ACADEMY IS TO BECOME A LEADER IN THE FIELD OF DRONE APPLICATION PILOT TRAINING IN THE DOMESTIC DRONE INDUSTRY.

College curriculum system

THE CURRICULUM SYSTEM IS FORMULATED IN ACCORDANCE WITH THE RELEVANT REGULATIONS OF THE FLIGHT STANDARDS DEPARTMENT OF THE CIVIL AVIATION ADMINISTRATION OF CHINA AND THE CIVIL AVIATION PILOTS ASSOCIATION OF CHINA, AND HAS BEEN SUBMITTED FOR REVIEW AND APPROVAL. THE TRAINING COURSES COVER THEORETICAL KNOWLEDGE, SIMULATION TRAINING, PRACTICAL TRAINING, AND BUSINESS TRAINING. IN ADDITION TO THE ORIGINAL DRONE DRIVING OPERATION COURSE, A DETAILED INTRODUCTION TO THE DRONE BUSINESS PLATFORM AND USAGE SCENARIOS IS PROVIDED TO PROVIDE STUDENTS WITH BASIC OPERATIONAL SKILLS.



THEORETICAL KNOWLEDGE

FLIGHT MANUAL, AVIATION REGULATIONS, AIRSPACE KNOWLEDGE, KNOWLEDGE OF FLIGHT PRINCIPLES, FLIGHT PERFORMANCE, METEOROLOGY, AND EMERGENCY OPERATIONS.



PRACTICAL TRAINING

DRONE POWER SYSTEM INSPECTION, DRONE CONTROL SYSTEM INSPECTION, UNMANNED AERIAL VEHICLE SELF DRIVING SYSTEM INSPECTION, REMOTE CONTROL FLIGHT, ROUTE FLIGHT.



SIMULATION TRAINING

SIMULATOR INSTALLATION AND SETUP EQUIPMENT RECOGNITION EQUIPMENT INSPECTION, SIMULATED TAKEOFF AND TURNING TRAINING, SIMULATED FLIGHT ROUTE TRAINING.



BUSINESS TRAINING

DETAILED EXPLANATION OF PLATFORM FUNCTIONS AND UNMANNED AERIAL VEHICLE BUSINESS FIELD DETAILED EXPLANATION OF SCENERY, LOAD EQUIPMENT, ETC

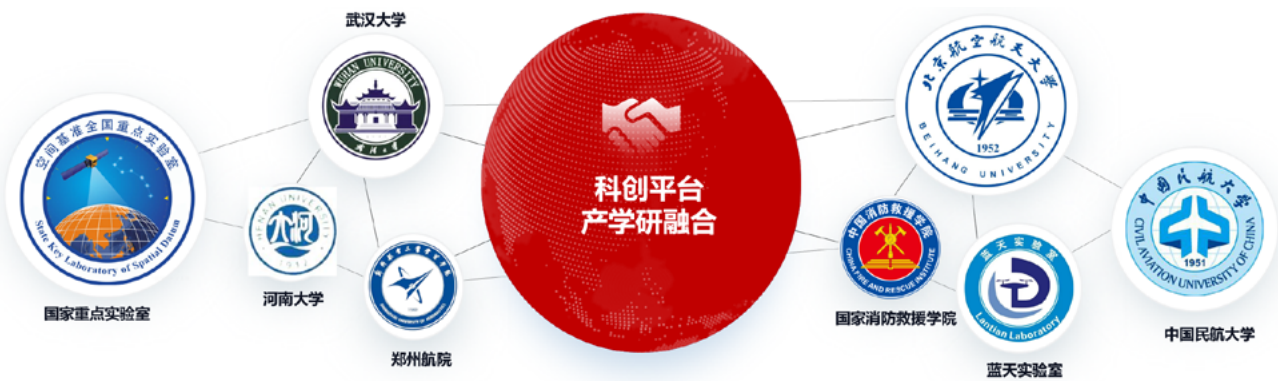
College Style



6 collaboration ecosystem

Widely carry out industry university research cooperation

We have established close cooperative relationships with multiple universities and research institutions. We have successively established industry university research cooperation relationships with Beijing University of Aeronautics and Astronautics, Civil Aviation University of China, State Key Laboratory of Space Benchmarking, National School of Fire Rescue, Wuhan University, Henan University, Zhengzhou University, Zhengzhou Institute of Aviation Industry Management, Blue Sky Laboratory, etc.



Collaborative ecosystem



Industrial Collaboration (Anyang UAV Industrial Park)

Form a development layout of “one zone”, “two bases”, and “three centers”



National Civil Unmanned Aerial Test Zone

In 2020, Anyang City was approved as one of the first batch of national civil unmanned aerial vehicle test zones. The main tasks are to carry out regular urban inspections with drones, explore the application of ubiquitous low altitude 5G drone technology, and explore the comprehensive management mode of unmanned aerial vehicle cities. The experimental zone has developed a total of 14 industry standards and specifications, established a secondary approval mechanism for air traffic management, and developed a “3+1+N” system solution around urban application scenarios, which has been promoted nationwide.



Henan Province Unmanned Aerial Pilot Base

Build and organize operations based on government platform companies. Construct 7 high-quality pilot maturation service platforms, which can provide various pilot services such as project development, testing, and product research and development. The dual wheel drive and interactive development of “service carriers and drone products” form a strong industrial support system.

5G ubiquitous low altitude testing base

It can provide 5G communication support for low altitude testing of various unmanned aerial vehicles. We have provided over 1000 testing and verification services for key research institutes and central enterprises such as the National Airspace Key Laboratory, China Electronics Technology Group Co., Ltd., China Unicom Research Institute, and China Ordnance Industry Group, making us the preferred location for 5G low altitude testing services in China.



Drone Flight Test Center

It is a standard drone testing flight site, covering an area of over 110 acres, with 8 rotary wing drone testing runways (15 meters x 200 meters) and 1 fixed wing drone testing runway, as well as four 3000 square meter flight sites. Our own airspace covers a range of 600 meters or less, with a radius of 10 kilometers, which can meet the testing flight needs of enterprises settled in the park at any time.

5G drone command and control center

We have developed a 5G unmanned aerial vehicle control cloud platform, which can achieve real-time monitoring and control of low altitude unmanned systems. It has three major functions: air traffic control services, business applications, and data analysis, and has played an important role in promoting the development of the unmanned aerial vehicle industry in Anyang.

Drone Quality Inspection Center

The center is a professional unmanned aerial vehicle inspection and testing institution with provincial-level qualifications. Fifteen laboratories have been built, which can carry out 373 parameter tests of UAV's environmental adaptability, reliability, wind resistance, flight control performance, fall shock resistance, spray performance, etc., providing cutting-edge scientific research information and test data for enterprises.



云洹网联
YUNHUAN UAV

云洹网联社交媒体二维码展示区



服务号



订阅号



视频号



抖音号



微博号

请选择您常用的社交媒体平台，扫描关注我们的
服务号、订阅号、抖音号、视频号、微博等，与我们保持紧密互动！



云洹网联 让天空赋能行业

LET THE SKY EMPOWER THE INDUSTRY!

