

Advanced Solutions for Safe and High-efficiency ATC Operation



The Second Research Institute of CAAC

Scientific research institute specializing in research of high and new technologies in China civil aviation industry, and also a major base that holds the lead and gives priority to both scientific research and industrialization in China civil aviation industry.

- China' s largest airport **weak-current product** provider and system integrator
- China' s leading **ATC equipment and technical service** provider and system integrator
- China' s largest **aviation chemical product** manufacturer



Civil aviation electronics



ATC



Aviation chemistry



General aviation



Aviation logistics



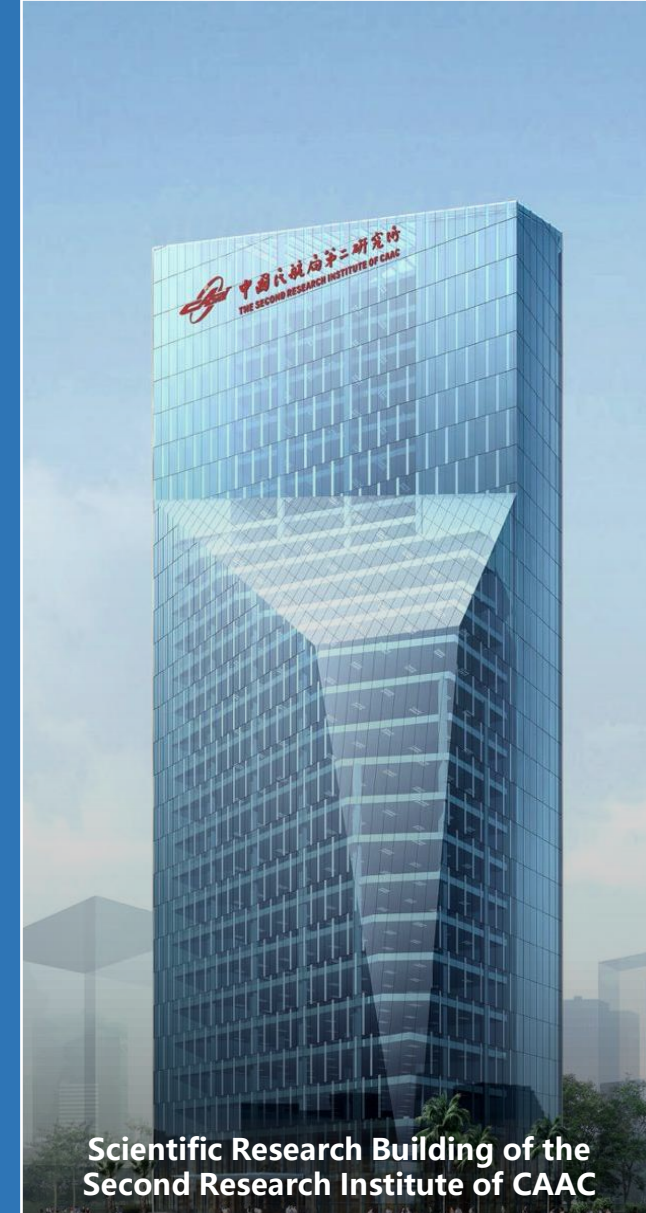
Aviation safety



Aviation materials



Airworthiness certification



Chengdu Civil Aviation ATC Science & Technology Co., Ltd.

As a wholly-owned high-tech enterprise of the Second Research Institute of CAAC, the Company takes civil aviation construction as its own responsibility, technological innovation as the foundation, and pursuit of success as the engine, and ATC development as the goal, in an effort to boost localization and industrialization of key ATC equipment.

The Company is mainly engaged in R & D, system integration, engineering construction, and support service of technologies and products (e.g., **ATC Automation, ATC Communication Monitoring, Control Operation and Informatization, and General Aviation Flight Service**)



Focusing on civil aviation construction, the Company is committed to making innovations in ATC command and operation technologies, and providing integrated solutions for **air route, airport surface and general aviation operation management, etc.**

Chengdu Civil Aviation ATC Science & Technology Co., Ltd.'s Products

serving more than **50** ATC centers and **80** airports throughout the country **every day**.

More than **300,000,000** passengers throughout the world **every year**

enjoy travel experience brought by **Chengdu Civil Aviation ATC Science & Technology Co., Ltd.**'s safe and reliable products and services every year.



Chengdu Civil Aviation ATC Science & Technology Co., Ltd.

We are committed to making innovations in ATC command and operation technologies, and providing integrated solutions for **air route**, **airport surface** and **general aviation operation management**, etc.

ATC automation

- ◆ **AirNet ATC automation system**
- ◆ **Procedure/radar/airport control simulator**
- ◆ **Advanced surface movement guidance and control system(A-SMGCS, four-level guidance)**
- ◆ **Tow control automation system**
- ◆ **Electronic flight strip system**

ATC Communication monitoring

- ◆ **ADS-B ground station system**
- ◆ **Multilateration system(MLAT/WAM)**
- ◆ **Runway incursion prevention system(based on video/runway status light)**
- ◆ **Remote tower system**
- ◆ **Light guidance system**
- ◆ **Enhanced video monitoring system**
- ◆ **Regional ADS-B data center system**

Low-altitude general aviation

- ◆ **General aviation operation management system(general aviation flight service station)**
- ◆ **Low-altitude monitoring communication system**
- ◆ **General aviation Beidou flight dynamic information service platform**

Control operation and informatization

- ◆ **Air traffic management operation control center (ATMOCC)**
- ◆ **Control service operation quality real-time monitoring system**
- ◆ **High-precision radar navigation facility coverage calculation analysis system**
- ◆ **Communication navigation monitoring integrated database management system**
- ◆ **ATC safety information management system**

INTEGRATED SOLUTION FOR AIR ROUTE AND TERMINAL AREA OPERATION



AirNet ATC Automation System

- Applied in Chengdu, Xi'an, and Sanya Regional Control, and Chengdu Terminal Control Center;
- 20-odd ATC sub-bureaus/centers, and 80-odd branch airports



Integrated Tower System

- China's first set of system is built
- Chengdu Tianfu, Chengdu Shuangliu, Ezhou, Zhanjiang, Lhasa, Chongqing, and Fuzhou



Procedure/Radar Control Simulator

- Category II Class C certification
- Applied in different places such as Heilongjiang, Hainan, Hubei, Guizhou, Shenzhen ATC Sub-bureau/Center



ADS-B Ground Station System

- Covering 5 provinces and cities such as Yunnan, Guizhou, Sichuan, Tibet, and Chongqing, and high-altitude airspace in southwestern region.
- Applied in 20-plus small airports and general aviation enterprises



Wide-Area Multilateration System

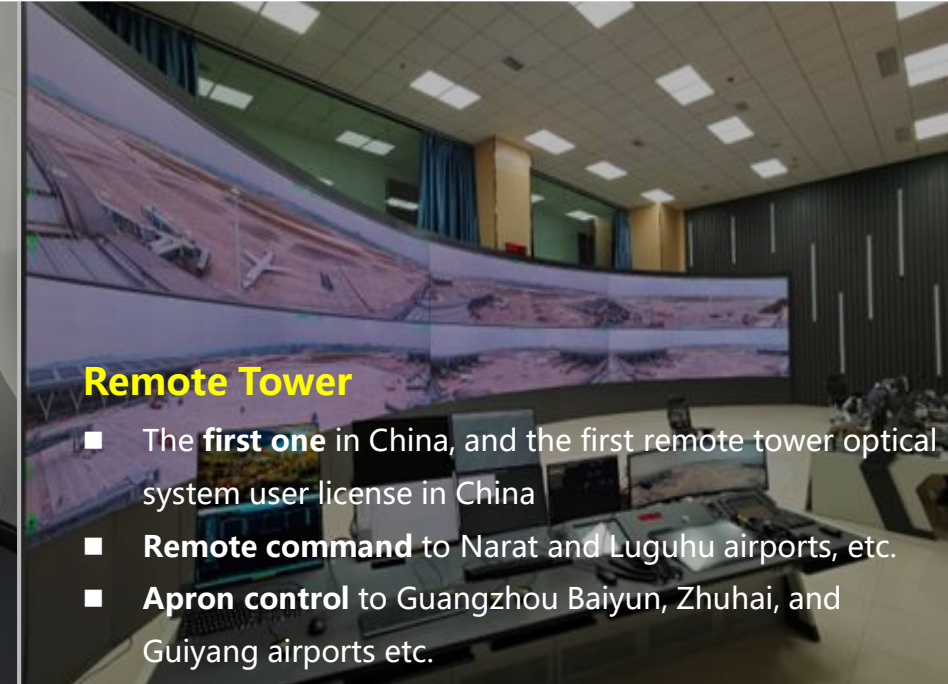
- Chongqing Airport Terminal Area Wide-area Multilateration System

SURFACE MONITORING INTEGRATED SOLUTION



Integrated Tower System

- Domestic **first one** is established
- Chengdu Tianfu, Chengdu Shuangliu, Ezhou, Zhanjiang, Lhasa, Chongqing, Fuzhou



Remote Tower

- The **first one** in China, and the first remote tower optical system user license in China
- **Remote command** to Narat and Luguahu airports, etc.
- **Apron control** to Guangzhou Baiyun, Zhuhai, and Guiyang airports etc.



Surface Multilateration System

- Rank **1st** in domestic surface multilateration system market for **more than 70% shares**
- "China' s **First Major Equipment**" certificate



Advanced Surface Movement Guidance and Control System

- Applied in 10-plus large airports such as Shuangliu, Chongqing, and Kunming, etc.

SURFACE MONITORING INTEGRATED SOLUTION



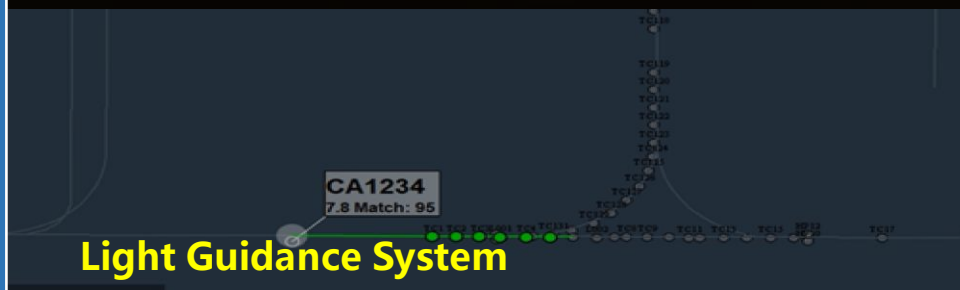
Runway Incursion Prevention System Based on Video

- Qinghai, Xinjiang, Gansu, and Ningxia



Runway Incursion Prevention System Based on Runway Status Light

- Shanghai, Xinjiang



Light Guidance System

- Chongqing Airport Demonstration Verification



Airport Panoramic Enhanced Monitoring System

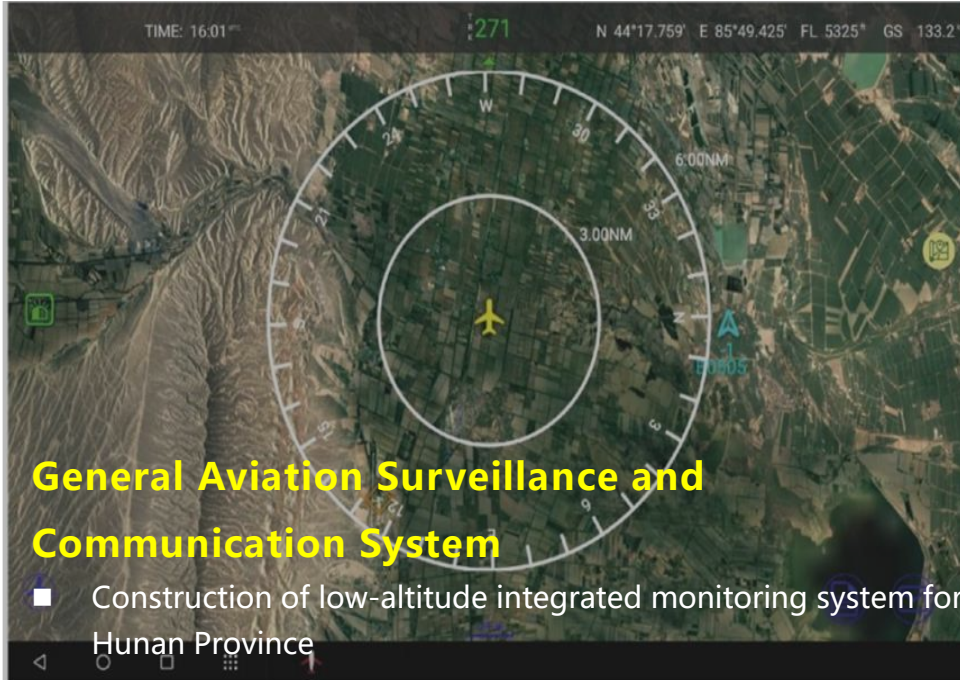
- Chengdu Shuangliu, Chengdu Tianfu, Guilin, Yinchuan, Chongqing, Jiuzhai Huanglong, Dazhou



Airport Control Simulator

- Shenzhen, Hubei

INTEGRATED SOLUTION FOR LOW- ALTITUDE GENERAL AVIATION OPERATION



General Aviation Surveillance and Communication System

- Construction of low-altitude integrated monitoring system for Hunan Province



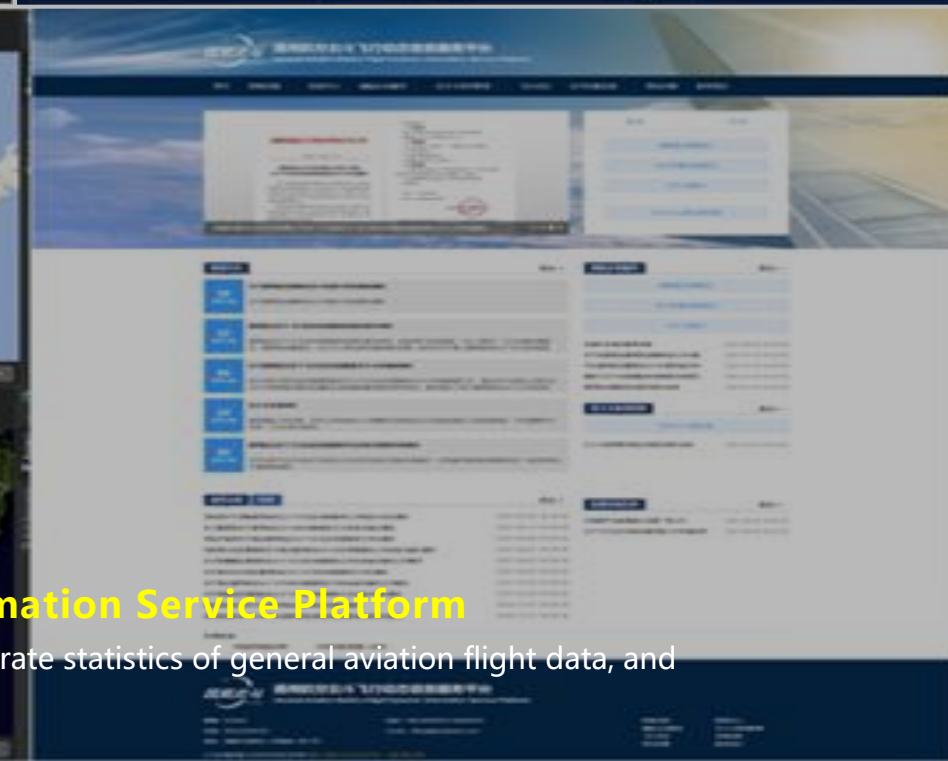
General Aviation Operation Management System

- Support general aviation flight plan whole-flow processing, and adapt to the coordinated operation model of general aviation users and military-civil aviation management units
- Applied in civil aviation "Three Centers" project, East China/Southwest ATC Bureau, Northwest 3rd Administration, Zhejiang Province, and Jiangxi Province



General Aviation Beidou Flight Dynamic Information Service Platform

- Provide low-altitude airspace flight dynamic data, realize accurate statistics of general aviation flight data, and assist in the precise industry service



CONTROL OPERATION AND INFORMATIZATION INTEGRATED SOLUTION



CIVIL AVIATION · WISDOM VALLEY

CHINA CIVIL AVIATION SCIENCE AND TECHNOLOGY INNOVATION PARK

- Build civil aviation advanced technological innovation platform and major technical equipment R & D center
- Develop industrial cluster with international competitiveness, and guide innovative development of civil aviation technologies

中国民航科技创新示范区
CHINA CIVIL AVIATION SCIENCE AND TECHNOLOGY INNOVATION PARK
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