

case study



Incheon International Airport Phase I

Incheon International Airport (IIA) opened its doors to the world on March 29, 2001. Located 52km west of the South Korean capital of Seoul and just 15km from Incheon Port, the Winged City (or IIA) is a state-of-the-art airport built on 5,610 hectares of reclaimed land located between the two islands of Yeongjong-do and Yongyu-do.

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The Winged City – Incheon International Airport

IIA, the Winged City, serves as a hub for international travel in Northeast Asia and provides around-the-clock flight operations to major destinations in the region. Special considerations have been placed on designing an airport that is efficient and cost effective for airline operations, but can also provide a comfortable and convenient experience for airline passengers.

INTEGRATED SOLUTION

An integrated system provides an effective communication platform for all the buildings in the airport, including: Passenger Terminal, Airport Information Telecom Centre, Control Tower, Cargo Terminal, Airport Garrison, Integration Operation Centre, Central Power Plant Buildings and Airport support facilities.

Honeywell designed a system of valves, sensors, actuators, and controllers with over 20,000 points throughout the airport facility. The system is integrated on the EBI R100 platform, an Open Protocol system that can be integrated with the AITC (Airport Information Telecom Centre) and System Extension (Module) for a more streamlined approach in managing data.

The combination provides optimal efficiency for monitoring various airport components including:

HVAC

- Ventilation and air-conditioning control
- Variable air volume system control
- Energy management programming
- Time/event/schedule programming

MAINTENANCE

- Management of maintenance information
- Facilities measurement
- Redundancy support
- Product stock control

OPERATION

- Operator level control / Alarm management
- Database management / Reporting
- Emergency call-outs / Product stock control

IIA Phase I

Location: Incheon, South Korea

Open: March, 2001

Airport Size:

- Site Preparation: 11,724,000 sq. meters
- Passenger Terminal: 496,000 sq. meters
- Runway: 2(3,750*60m)
- Cargo Terminal: 129,000 sq. meters
- Control Tower: 100.4m

Why choose the Automation System from Honeywell Building Solutions?

- Extensive experience managing airport projects
- System Integration Capabilities
- Expertise in Design Support
- A proven track record in improving the air quality of airport facilities
- Brand recognition as a leading technical provider for airport HVAC systems
- High quality of services and products
- Reliable Maintenance and After Service Support
- Professional and timely Project Management
- A flexible approach
- Ability to design built-in system redundancy with cut-over to alternatives if fault occurs

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