



First time ever in Japan! A full automated system using AI to be installed on boarding bridge at ITAMI

Kansai Airports is excited to announce its implementation at Osaka International Airport (ITAMI) of a fully automated system using AI to attach boarding bridges to aircraft automatically.

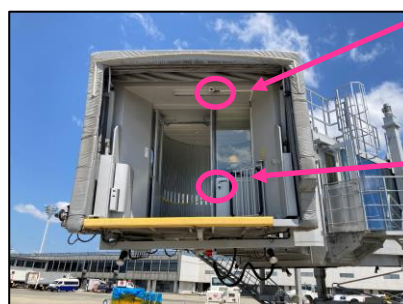
This system recognizes aircraft doors using AI and image recognition technology, and completely automates the process of installing the boarding bridge with just a touch of a button. The boarding bridge is a movable passage that connects the terminal building with the aircraft and is used for boarding and disembarkation. Since the existing boarding bridge is operated by a human, the accuracy of installation depends on the skill of the individual. Full automation improves safety by facilitating smooth boarding and disembarkation of passengers and preventing human error.

Kansai Airports Group will make continued efforts to offer passengers a new travel experience in a more comfortable and pleasant airport environment.

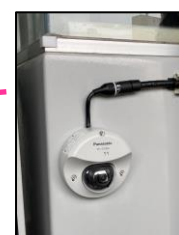
- Installation period: June 27, 2022 to June 30, 2024
- Target bridge: Two boarding bridges (No.13B and No.18A)
- Development & installation by: ShinMaywa Industries, Ltd.



Boarding bridge



Camera positions



- Expected effect:
Operability: Homogeneous process of boarding bridge attachment that does not depend on the skill of the individual operator
Efficiency: By eliminating the need for re-fitting, etc., flight operations can be maintained on time and waiting times for passengers can be reduced.
Safety: Prevents human errors using AI and image recognition technology
- Comparison with existing preset^{*1} running

	Function	Existing preset running	Full automated system
1	Arrival position (Final alignment)	1m short from the aircraft Manual alignment required	Completely attached (ready to open the hatch) No manual operation
2	Operability	Manual operation	One-push operation
3	Parking error detection	Manual adjustment needed depending on the degree of misalignment	No effect by having the camera detect the door position.
4	Safety check	Visual confirmation by operators	Visual confirmation by operators
5	Aircraft type selection	Operators select and input data	No need to select the aircraft type

*1: Function to perform predetermined movements for each aircraft

Contact Information

Public Relations

Group Corporate Communications Department
TEL: +81-72-455-2201





Kansai Airports was established by a consortium made up of VINCI Airports and ORIX Corporation as its core members. Kansai Airports took over the operations of Kansai International Airport (“KIX”) and Osaka International Airport (“ITAMI”) from New Kansai International Airport Company (“NKIAC”) and has been operating the two airports since April 1, 2016.

Kansai Airports Kobe, Kansai Airports’ wholly-owned subsidiary, took over the operations of Kobe Airport (“KOBE”) from Kobe City and started its business as an operating company on April 1, 2018.

Under the concept of “One Kansai Airports Group”, Kansai Airports group strives to continuously improve its services for all airport guests through appropriate investments and efficient operations, with safety and security being the top priority. Kansai Airports group aims to maximize the potential of the three airports, for the benefit of the communities they serve.

For more information, please visit : <http://www.kansai-airports.co.jp/en/>

Kansai Airports

Location	1-banchi, Senshu-kuko kita, Izumisano-shi, Osaka	Shareholders	ORIX 40%, VINCI Airports 40%, Other investors 20% ¹
Company Representatives	Representative Director and CEO:Yoshiyuki Yamaya Representative Director and Co-CEO: Benoit Rulleau		
Business Scope	Operation and management services, etc. of Kansai International Airport and Osaka International Airport		

Kansai Airports Kobe

Location	1-ban, Kobe-kuko, Chuo-ku, Kobe-shi, Hyogo	Shareholder	Kansai Airports 100%
Company Representatives	Representative Director and CEO: Yoshiyuki Yamaya Representative Director and Co-CEO: Benoit Rulleau		
Business Scope	Operation and management services, etc. of Kobe Airport		



About ORIX:

ORIX Corporation is a financial services group which provides innovative products and services to its customers by constantly pursuing new businesses.

Established in 1964, from its start in the leasing business, ORIX has advanced into neighboring fields and is presently undertaking a wide range of businesses such as corporate finance, industrial/ICT equipment, environment and energy, automobile-related, real estate-related, private equity investment and concession, banking and life insurance businesses. Since entering Hong Kong in 1971, ORIX has been operating its businesses globally by establishing locations in about 30 countries and regions across the world.

Going forward, ORIX intends to utilize its strengths and expertise of always generating new value to contribute to society by engaging in corporate activities that instill vitality in its companies and workforce based on ORIX’s unique business model that continues to evolve perpetually.

For more details, please visit our website: <https://www.orix.co.jp/grp/en/>

(As of September 30, 2021)



The world’s leading private airport operator, VINCI Airports operates 53 airports in 12 countries in Europe, Asia and the Americas. Thanks to its expertise as a global integrator, VINCI Airports develops, finances, builds and manages airports by providing its investment capacity and its know-how in optimizing operational performance, modernizing infrastructures and managing their operations. environmental transition. VINCI Airports is the first airport operator to have committed to an international environmental strategy in 2016, to achieve the goal of net zero emissions across its entire network by 2050.

www.vinci-airports.com

¹ ASICS Corporation; Iwatani Corporation; Osaka Gas Co., Ltd.; Obayashi Corporation; OMRON Corporation; The Kansai Electric Power Company, Incorporated; Kintetsu Group Holding Co., Ltd.; Keihan Holdings Co., Ltd.; Suntory Holdings Limited; JTB Corp.; Sekisui House, Ltd.; Daikin Industries, Ltd.; Daiwa House Industry Co., Ltd.; Takenaka Corporation; Nankai Electric Railway Co., Ltd.; NIPPON TELEGRAPH AND TELEPHONE WEST CORPORATION; Panasonic Corporation; Hankyu Hanshin Holdings, Inc.; Rengo Co., Ltd.; The Senshu Ikeda Bank, Ltd.; Kiyo Holdings, Inc.; The Bank of Kyoto, Ltd.; THE SHIGA BANK, LTD.; The Nanto Bank, Ltd.; Nippon Life Insurance Company; Mizuho Bank, Ltd.; Sumitomo Mitsui Trust Bank, Limited; MUFG Bank, Ltd.; Resona Bank, Limited; and the Private Finance Initiative Promotion Corporation of Japan.