INNOVATION TAKES FLIGHT

Taking the Intelligent Airport to New Heights

Honeywell

THE SKY'S THE LIMIT.

Propelling the connected airport into the future.

FORGET COMPLICATED. THINK INTEGRATED.

Multiple products from different vendors. Operational silos. Managing so many systems, operational 24/7, is a constant challenge—especially when factoring in the astounding growth of air passenger and cargo traffic. Honeywell makes the complex simple, with a powerful, integrated platform that empowers operators to reduce costs, increase productivity and make critical, timely decisions.

A global leader, we develop and deliver fully integrated, innovative, future-proof solutions designed for today and tomorrow—taking the connected airport to new heights.

INSPIRING BETTER AIRPORTS

Our intelligent approach focuses on the convergence of airside, terminal and landside solutions. We empower operators to address the tough challenges around safety, security, efficiency and productivity—inspiring better airports.

BENEFITS OF INTEGRATION

Improves real-time emergency response

Increases operational efficiency and maximizes your ROI

Enhances control capabilities, reducing costs and improving efficiencies

Gathers greater operational intelligence for more informed decision making

Creates opportunities for new revenue streams

INTELLIGENT AIRPORT MANAGEMENT

The Honeywell Enterprise Buildings Integrator (EBI) is an easy-to-use, intelligent platform that integrates existing and future building management, life safety, security, business and communications systems.
The result? A highly efficient, consistent data source that helps airports run more efficiently.

BRUSSELS UPGRADES TO A FIRST CLASS AIRPORT MANAGEMENT SYSTEM

Brussels Airport needed real-time control and monitoring of 13 vital subsystems. Honeywell developed a customized central platform—the Airport Management System—to integrate all the real-time and historical data needed to drive productivity and efficiency across the airport, saving energy and making the facility safer and more secure.

Take the Journey.

From the moment passengers set foot on airport property until they arrive at their final destination, Honeywell is along for the journey. From curbside to check-in, from lift-off to landing and every touchpoint in between, our technology is at work—providing a safe, comfortable and exceptional travel experience.

CURBSIDE

SMART SECURITY CAMERAS

Ideal for inside and outside the terminal, our high-performance networked video solutions provide advanced security capabilities, including intelligent recording and state-of-the-art storage to help ensure that evidence is never lost.

RADAR VIDEO SURVEILLANCE (RVS) AND PERIMETER INTRUSION DETECTION SYSTEMS (PIDS)

Radar-enabled surveillance means airport authorities can identify potential security threats before they reach the airport perimeter. Radar is the preferred technology for threat detection while CCTV is better for identification.

TERMINAL ENTRANCE

CHECK-IN, TICKETING, SECURITY AND BAGGAGE HANDLING

Honeywell's scanning and mobility products are used by more than 160 airlines across 275 airport locations. The technology helps eliminate delays and enhances the passenger experience while ensuring that the right people and their luggage board the right plane and get to their destination on time.

IMAGING AND MOBILITY SOLUTIONS FOR BAGGAGE HANDLING

Honeywell solutions using industrial smart printers, media and hand-held mobile computers improve baggage sorting, loading and reconciliation systems at many airports around the world.

PUBLIC ADDRESS/VOICE ALARM (PA/VA) SYSTEM

Honeywell technology enables operators to target critical announcements to specific gates or areas of the terminal and automatically adjust the volume to account for varying levels of background noise.

MAKING HEATHROW MORE SUSTAINABLE

Honeywell was responsible for developing building management systems at Terminal 5 in Heathrow, which is currently one of the most efficient airport terminal buildings in the world. Heathrow also implemented smart metering at Terminal 5 to allow it to manage energy hungry baggage systems. The new Terminal 2 is expected to use 40 percent less energy than the building it replaces, due in part to the Honeywell building management system.

IN THE TERMINAL

BUILDING MANAGEMENT SYSTEMS

These leading-edge systems integrate security, comfort, life safety and energy control, among other functions. This gives managers a single point of access and a consistent view to information and resources that enhance the ability to monitor, manage and protect an airport and all of its facilities. The result? Improved efficiency and reduced energy and operational costs through simplified setup, scheduling and control.

ENERGY MANAGEMENT

Our energy management solutions include performance contracting, demand response and the use of renewables—all of which give airport operators the ability to manage and cut their energy use.

FIRE SENSORS AND DETECTORS

Honeywell provides fire and smoke detectors, water-flow detectors and a range of other detection units to many of the world's biggest hub airports to improve security and help mitigate damage.

FIRE ALARM ASPIRATION SENSING TECHNOLOGY™ (FAAST)

This new generation of smoke detectors from Honeywell uses advanced technologies and software to deliver the earliest and most accurate smoke detection. The FAAST device range is designed to protect people and assets in even the most challenging environments where standard detection methods fail or are prone to false alarm, or in areas which may not previously have been protected.

MAXIMIZING EFFICIENCY IN MADRID

Madrid-Barajas Airport, operated by AENA Aeropuertos, consists of four terminals and is one of Europe's busiest airports. They faced a dilemma that is common with airport operators: how to keep their passengers comfortable and improve the productivity of their operations while reducing ongoing capital and operating expenses. Honeywell provided a centralized building control system that integrates climate control, fire detection, lighting, video docking guidance and overall management of the facilities' electrical consumption.

ON THE RUNWAY

RUNWAY LIGHTING/TAXIWAY LIGHTS

Honeywell provides runway and taxiway lighting systems at airports all over the world. Airfield lighting is essential to guide planes between the runway and the gate as quickly as possible, ensuring delays are kept to a minimum.

GROUND TRAFFIC MANAGEMENT (GTM)

Our advanced Ground Traffic Management system allows for individual lamp control, which increases capacity and improves runway safety while reducing airport energy use and carrier fuel consumption.

BRINGING BRIGHT IDEAS TO INCHEON INTERNATIONAL AIRPORT

This major South Korean airport was the world's first to operate an Advance Surface Movement Guidance Control System (A-SMGCS) Level 4—directing aircraft traffic on the ground using over 35,000 individually controlled lights. The system is comprised of a variety of Honeywell technologies including approach, threshold, runway and taxiway lights, CMS, power transformers, inductive loop stop bars and single lamp control modules—greatly improving safety.

CONTROL AND MONITORING SYSTEM (CMS)

Honeywell's automated Control and Monitoring System provides control for runway and taxiway lights, delivering real-time feedback ground lighting system performance.

VISUAL DOCKING GUIDANCE SYSTEMS (VDGS)

These systems provide automatic and precise guidance of aircraft to a gate getting passengers to the terminal and baggage quicker than ever before.

PILOT SAFETY

Honeywell SmartView® synthetic vision system with 3-D taxiing augments the outside airport taxi view by providing key alerting, marking and signage enhancements. Itincreases the pilots' ability to easily orient, locate, anticipate and make taxi decisions.

IN THE AIR

CONNECTIVITY

Honeywell's JetWave™ satellite communications terminals enable global connectivity via Inmarsat Aviation's Global Xpress Ka-band network. Designed to provide broadband-class data connectivity, the hardware and network are optimized for mobility to provide a consistently outstanding passenger experience all over the world.

AVIONICS

Our Traffic Collision Avoidance System (TCAS) with SmartTraffic® can significantly reduce operation costs for airlines by equipping them with advanced ADS-B applications that considerably increase efficiency and routing.

WEATHER AVOIDANCE

Honeywell's IntuVue® Weather Radar uses the most advanced predictive wind shear and Minimum Operational Performance Standards (MOPS)-certified turbulence detection and alerting capabilities to let pilots reroute aircraft before reaching weather hazards. The latest upgrade provides the industry's longest turbulence detection at 60nm and the industry's first hail and lightning prediction capability.

ENGINE TECHNOLOGY

Honeywell engines and auxiliary power units are designed for maximum performance, reliability and durability. All are backed by global service and support networks that keep them running at peak efficiency.

FUEL EFFICIENCY

UOP, a Honeywell business, has developed and commercialized technology that converts non-edible, second-generation natural oils and wastes to Honeywell Green Jet Fuel. This eco-friendly fuel meets all critical specifications for flight and reduces greenhouse gas emissions.

APPROACH AND LANDING

AIR TRAFFIC MANAGEMENT

SmartPath® is the only GBAS to have received System Design Approval from the FAA in the US, BAF in Germany, AENA in Spain and CASA in Australia. It enables increased airport capacity, decreased air traffic noise, reduced weather related delays and offers substantial maintenance and fuel savings. GBAS technology offers greater environmental efficiencies and reduced airport maintenance costs, potentially saving up to $400,000 per system a year.

THINK GREEN

Honeywell's Green Jet Fuel powered the world's first trans-Atlantic biofuels flight at the Paris Air Show in 2011. Made from non-edible materials such as camelina, Green Jet Fuel can offer net emissions savings of 85 percent compared to petroleum-based fuels, and does not require any changes to the aircraft or engine in a 50/50 blend with kerosene.

READY FOR THE FUTURE?

Welcome Aboard.

With Honeywell, possibilities take flight. With over a century of breakthrough innovations, experience in over 500 airports worldwide and millions of dollars invested in research and development, it would be hard to find a company that touches more elements of the global aviation industry.

Contact us to see how our integrated, scalable, world-class solutions can modernize your entire infrastructure—improving the comfort, safety and efficiency of your airport today. And tomorrow.

OVER 100 YEARS OF INNOVATION

As a recognized leader in the aviation and airports sectors, Honeywell's path is clear: keep the world moving forward. Our breakthroughs helped shape the evolution of the modern, connected airport—making it safer, cleaner, smarter and greener.

That's why more than 500 airports, almost every air transport and business aircraft, and most of the world's airlines trust Honeywell to take them to new heights.

Smart move.

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THE FUTURE IS WHAT WE MAKE IT

Honeywell