



Sophisticated Honeywell Surveillance System Protects George Bush Intercontinental Airport in Houston, Texas

The Client:

George Bush Intercontinental Airport, located 20 miles north of downtown Houston, Texas, is one of the top ten busiest airports in the U.S. with more than 700 departures daily. With nine domestic, 12 commercial, 40 cargo, and two charter airlines, it has the highest on-time performance record of any major U.S. airport.

The Situation:

After the events of September 11, 2001, providing a safe and dynamic air travel infrastructure has increasingly become a top priority. The Department of Homeland Security offered a \$3.5 million dollar grant to the Houston Airport System, comprised of three airports in the surrounding area, to improve security measures. The largest of the three, George Bush Intercontinental Airport, was top priority. It's located between two major roads – Interstate 45 and Highway 59 – and has a 30-mile perimeter that needs to be surveyed 24/7.

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Mark Mancuso, Deputy Director of Public Safety, Houston Airport System

The Solution:

Honeywell will provide the airport with a first-of-its-kind perimeter and intrusion detection system using Radar Video Surveillance (RVS) and Advanced Video Processing Systems (AVPS). The two combined technologies will provide the airport with the most advanced surveillance capabilities of any airport in the U.S.

RVS, a software system originally developed by Honeywell Aerospace and used to protect ports and track missiles, was adapted for ground use and will be used to monitor the airport's perimeters.



AVPS will monitor and analyze certain behaviors captured by video, and will be deployed in areas where ground-based radar may be obstructed by buildings or towers.

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Mark Mancuso, Houston Airport System

The airport will use a variety of Honeywell cameras, as well as sophisticated fixed and PTZ FLIR thermal cameras that will allow operators to view miles of the airport's perimeter. The cameras will be linked to geospatial maps allowing for easy evaluation of targets detected by both ground-based radar and video analytics. Installation of RVS and AVPS began January 2006 and will be completed in the summer. Both systems will be fully integrated with Honeywell's Digital Video Manager and Pro-Watch system, which are already installed at the airport.

The Benefits:

The combination of RVS, ground-based radar and video analytics tied into the Pro-Watch/Digital Video Manager system offers Bush Intercontinental Airport a complete evaluation of its security from AOA to the very edge of the perimeter, all within a single graphical user interface.

The Honeywell Security system will compliment the airport system's Airport Rangers program, a badged surveillance team that patrols the airport's 11,000 acre perimeter on horseback, as well as the airport's many other security mechanisms that are already in place.

“The best way to achieve a secure airport of our magnitude is not by simply reacting to incidents after-the-fact or by jumping on the latest trend, but by really taking a hands-on approach to understanding the needs of our airports. This new technology provides the right kind of surveillance system we need,” said Mark Mancuso, deputy director of public safety for the Houston Airport System.

The Product:

Radar Video Surveillance (RVS)
Advanced Video Processing System
Digital Video Manager
Pro-Watch

More Information:

Honeywell International is a \$30 billion diversified technology and manufacturing leader, serving customers worldwide with aerospace products and services; control technologies for buildings, homes and industry; automotive products; turbochargers; specialty chemicals; fibers; and electronic and advanced materials. Based in Morris Township, N.J., Honeywell's shares are traded on the New York, London, Chicago and Pacific Stock Exchanges. It is one of the 30 stocks that make up the Dow Jones Industrial Average and is also a component of the Standard & Poor's 500 Index. For additional information, please visit www.honeywell.com.

Honeywell Security

2700 Blankenbaker Pkwy, Suite 150
Louisville, KY 40299
1-800-796-CCTV
www.honeywell.com

Honeywell

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