

SURF-A

New Cockpit Alerting Solution Improves Runway Safety



Honeywell

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SURF-A PROVIDES 'EXTRA EYES' IN THE COCKPIT TO PREVENT RUNWAY INCURSIONS

Pilots are the last line of defense to prevent collisions and avoid close calls on busy runways. Honeywell's groundbreaking SURF-A cockpit alerting software will give flight crews the precious time they need to recognize hazards – like aircraft on the wrong runway – and take evasive action to avoid what could be a fatal accident.

SURF-A has been compared to adding an “extra set of eyes” in the cockpit, which is particularly important as air traffic expands, airports become more congested, and the number of runway safety incidents increases. Industry estimates show an incursion happens daily somewhere in the world.

SURF-A is expected to be available for new aircraft and retrofit beginning in 2025, pending FAA certification.

NEW SOFTWARE SPEEDS RESPONSE TIME, ALERTS FLIGHT CREWS DIRECTLY

The software enhances situational awareness and gives flight crews the right information, at the right time and in the right place to enhance runway safety. Most other solutions alert the control tower of potential problems but don't alert pilots directly, which can delay response time.

SURF-A provides real-time aural and visual alerts to pilots when their aircraft is on a trajectory to collide with an aircraft on the runway within 30 seconds. SURF-A uses GPS data, Automatic Dependent Surveillance-Broadcast (ADS-B) equipment and advanced analytics to pinpoint the exact location of traffic hazards on or near the runway and alerts if you are on a collision course.

SURF-A accesses data directly from the ADS-B Out equipment installed on aircraft. It establishes the current location and movement of all ADS-B equipped aircraft within the runway engagement zone and uses advanced algorithms to identify anything that could cause an incursion within the next 30 seconds.

HIGHLIGHTS:

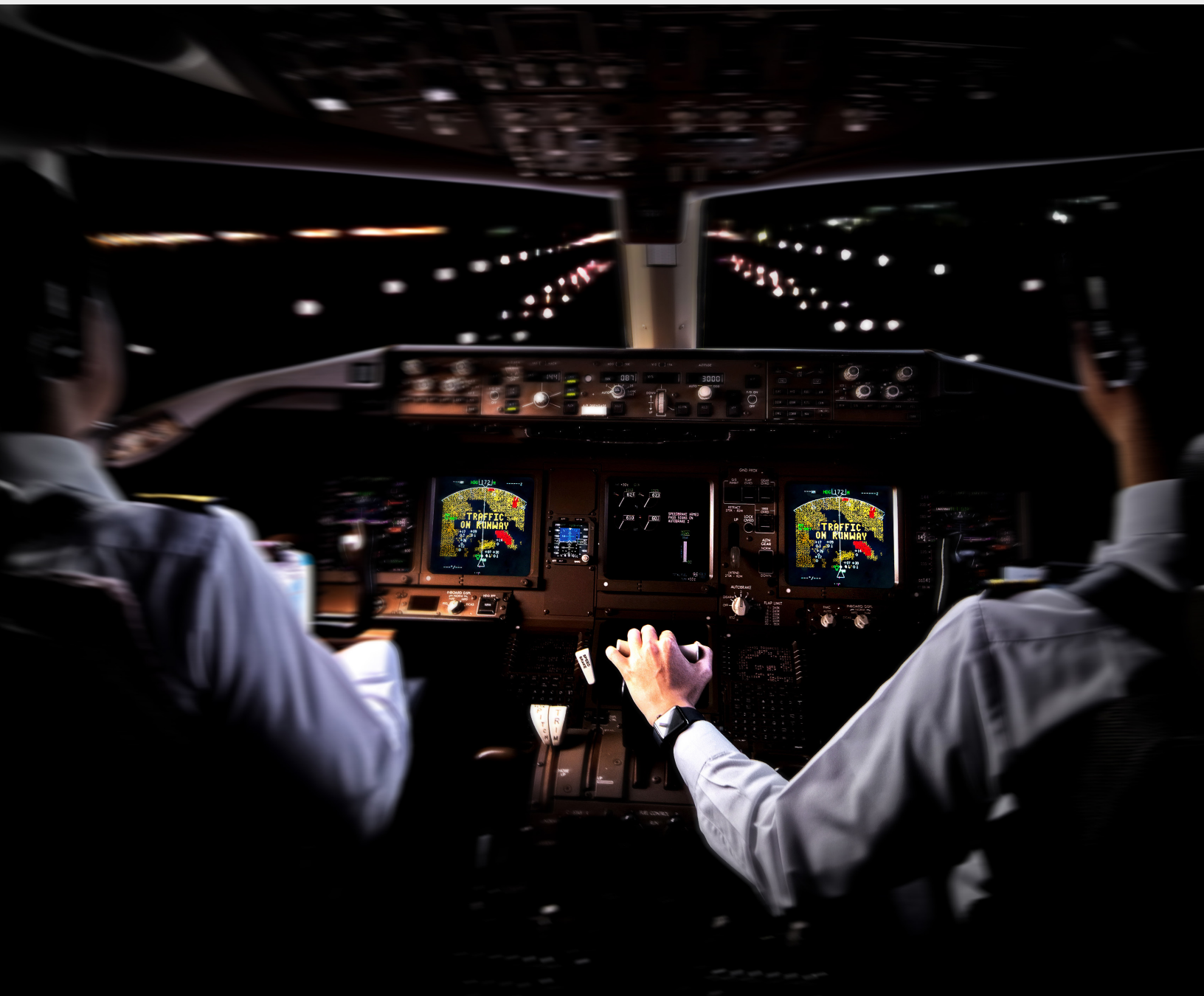
- Detects traffic and alerts within 30 seconds to collision
- Provides direct aural and visual alerts to the pilot
- Uses GPS, ADS-B and advanced analytics
- Complements other runway safety solutions like SmartRunway and SmartLanding that are available on EGPWS MKV-A today



SURF-A TAKES RUNWAY SAFETY TO NEW HEIGHTS

The new SURF-A technology joins Honeywell's expanding portfolio of runway safety products known as Smart X. It includes the Runway Awareness and Advisory System (RAAS) and the SmartRunway and SmartLanding software, which took runway situational awareness to the next level when they were introduced 15 years ago.

Those technologies, which come as a software upgrade to an aircraft's required Enhanced Ground Proximity Warning System (EGPWS), boost flight crew situational awareness during taxi, take-off and landing.



For More Information

For more information about SURF-A, please click the [here](#).

Honeywell Aerospace

1944 East Sky Harbor Circle
Phoenix, AZ 85034
aerospace.honeywell.com

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