

TURNAROUND EFFICIENCY KEEPS TRAVELERS HAPPY

Maintain the passenger experience despite increasing air traffic by optimizing gate operations while maintaining safety and security. The latest, most advanced visual docking guidance from Honeywell can help speed up turnaround operations, getting aircraft ready for departure faster by providing greater situational awareness for the pilots and the airside operations team alike.

Honeywell Navitas®
Smart Visual Docking

Honeywell

TURN SMOOTH ARRIVALS INTO TIMELY DEPARTURES

Honeywell provides a full suite of airside solutions designed to bring situational awareness and data-driven analytics to the challenge of maintaining the quality of the traveling experience while optimizing turnaround efficiency during times of growing passenger volume.

Honeywell Navitas® Smart Visual Docking is a next generation docking solution in optimizing airport gate capacity and efficiency. Honeywell Gate and Turnaround Solutions provide integration with advanced surface movement guidance systems and other airside IT systems. The result: precise guidance for safer docking through improved situational awareness for the apron/ramp controllers.

The unit's lower-weight modular design is easy and cost effective to install. Flexible mounting options support full visibility for pilots and complex gate layouts such as curved and over steered. A rich multi-color LED display with a wide angle view of 160° and a viewing distance of up to 120 meters. And while Navitas Advanced Visual Docking can be integrated with other airport systems, it can also be used as a standalone docking solution with a manual control board.

WHY DOES ALL THIS MATTER?

Enhanced Safety And Reliability

The all-weather capability of Navitas Smart Visual Docking is made possible using multisensory fusion which overcomes the limitations of individual sensor technologies. Early detection of aircraft type helps prevent incidents during docking. Advanced safety algorithms with machine learning such as continuous obstacle detection and adjacent stand validation enhances safety during the docking.

Performance

The precision made possible by Navitas Smart Visual Docking will position you for future upgrades to docking with an autonomous passenger boarding bridge.

Capturing milestones such as in and out Off Block time provides accurate CDM milestones for connected airside and terminal side systems such as billing, ERP, and flight information display systems.

Fewer Maintenance Cycles

Pre-calibrated sensors and minimal mechanical moving parts means frequent recalibrations are not required, reducing system downtime.

Multiple Centerline Support

Multiple apron ramp system support helps optimize the number of visual docking guidance units needed when there is dual centerline scenario.

Automated Incident Reporting

Video-based incident reporting shows docking events overlaid with time synchronization. Tamper proof report generated with a single click.

RELIABLE PERFORMANCE IN ALL CONDITIONS

END-TO-END TURNAROUND CONTROL

- Aircraft type detection to enable safer clearance
- Enhanced uptime for airside operations during Irregular Operations (IROPS)
- Safer docking in all weather situations
- Complex gate layout support for curved and oversteered entries
- Safety features including continuous gate clearance check and adjacent stand validation to prevent wingtip collision
- Configurable Docking workflow based on Airports ConOps
- Block time registration
- Integration with IAAS and other airside systems
- Fixed calibration. No mechanical moving parts
- Sensor blind alerts
- Emergency stop if a component fails
- Cyber secure hardware and software platform. Fully encrypted and compliant to ISA 62443-4-2 cyber security mandates

HERE'S HOW THE NAVITAS SYSTEM PROVIDES A SAFER, MORE EFFICIENT TURNAROUND



A310 KLM876
ALDT 16:35

30.0m
15.0m
10.0m

SLOW
0.0m
STOP

HOLD BRAKES
CHOKES ON

✓ CHOCKS
✗ GPU
TOBT 22:05

✓ CHOCKS
✗ GPU
TSAT 34:00

Display TOBT and TSAT messages

System displays the CDM milestones-based airports ConOps

Aircraft @TMO, or at approach

- 1. Displays Estimated In-Block Time (EIBT) to ground handler
- 2. Apron controller assesses the allocated slot by checking status of all gate ecosystems

A310 KLM876
EIBT 16:30

Aircraft enters the gate area

- Aircraft type verification
- Continuous obstacle detection check
- Bridge position monitoring

A310

In block time recording

Record in-block time and transfer this to off-block time.

KLM876
EOBT 17:20

Target Off-Block Time countdown

TOBT count down last 30 minutes of push back (configurable)

✓ CHOCKS
✗ GPU
TOBT 22:05

✓ CHOCKS
✗ GPU
TSAT 34:00

Record Actual Off-Block Time

Record AOBT and transfer to connected airside systems

KLM876
AOBT 22:06

Inbound Outbound

Find Out More

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