

Honeywell | Connected Airport

Honeywell A-VDGS PA3+/ **SmartDOCK**

Advanced Visual Docking Guidance System





Managing Efficiency & Safety

Airports around the world continue to face pressure to expand their capacities to handle increasing numbers of flights due to growth in air travel demand. For busy airports with high numbers of arrivals/departures, efficient gate management with safety is high priority. Efficient gate assignment and live view of gate activity is increasingly important because it would allow an airport to increase the capability of existing passenger terminal resources and enhance safety, as well as to cope dynamically and proactively with sudden changes which often take place in real-time operations.

 SAFETY ⋮  EFFICIENCY ⋮  CAPACITY

Increases in passenger traffic require higher gate efficiency and optimized throughput - Honeywell's Visual Docking Guidance System and Gate Control System helps optimize airport gate capacity.

- State-of-the-art Advanced Visual Docking Guidance System
- Honeywell VDGS LED design
- Automatic and precise docking guidance
- Ramp information shown during Turnaround process and A-CDM integration
- Modular distribution to simplify maintenance
- State-of-the-art LED panel
- System-as-a-Service offering
- A-VDGS is part of Honeywell's complete Ground Traffic Management solution
- Easy integration with Airports IT systems



Pilot Display Unit (PDU)

During the entire docking procedure, the high-brightness pilot LED display unit shows specific guidance information and instructions visible to the pilot and co-pilot.

Brightness pilot LED display unit

The PDU is capable of displaying alphanumeric and graphic symbols including ramp-up and A-CDM information.

Ramp-up and A-CDM information

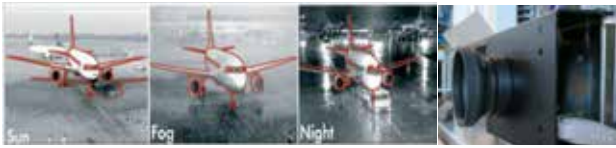
Electronic modules distribution for a much easier maintenance.

State-of-the-art LED panel allows graphics and text messages improvements, delay-free display change and scrolling text display, high refresh rate, +160 degrees beam angle to be seen by both pilots and people working in the apron area, fantastic legibility in bright sunlight and brightness adapts automatically to the ambient light.

The communication between the individual PDUs and a central docking computer is established by LAN connections.

Video Sensor

The high dynamic range video sensor guarantees flawless, non-contact detection of aircraft (no impact on pilots), even in rainy, foggy, snowy or extremely sunny weather conditions.



Videosurveillance

(Optional) Webcams may be integrated into the system for apron monitoring purposes. In this case, a computer simultaneously displays the pictures of up to nine selected cameras on a split screen.

Manual Control Board (MCB)

At the manual control board, the operation mode is selected by means of a key-operated switch. MCB indicates the current system status. The expected aircraft types will be selected manually by using the MCB buttons.



In an emergency situation, the docking procedure can be cancelled by means of the MCB's Emergency Stop button at any time.

Central Computer

(Optional) Provides remote control of VDGS, activation of stand with aircraft type and flight number, deactivate the stand, gathering of status information and stand conflicts.

Integration with Airports IT systems

Interface to AODB (FIS), CMS, A-CDM, A-SMGCS through Central Computer or through VDGS directly without the need of Central Computer (OPC direct connection)

Easy integration with Airports IT systems: AODB, A-CDM, ...

Ramp information can be shown during Turnaround process and A-CDM integration.

SYSTEM-AS-A-SERVICE OFFERING

Honeywell can offer you a pure OPEX model adapted to airport needs, including complete system supply, installation and a full comprehensive maintenance service that will assure the airport to maximize system availability and to avoid non-expected operational costs during system lifetime duration.



Key Benefits

Safe and Reliable Docking

Operates in all weather conditions. Unlike systems that only scan a narrow angle and need a clear line of sight, the Honeywell A-VDGS sensors continuously scan the complete gate area for maximum safety.

Performance

Delivers stop position and azimuth accuracy, enabling aircrafts to stop on or near designated stop points.

Pre-Calibrated System

Reduced end-to-end installation and commissioning time. Minimal Maintenance.

Video sensor works without any lifetime limitation or mechanical aging. No moving parts or motors to maximize reliability and minimize maintenance.

Reliability

Extremely long life. MTBF: A-VDGS (45,000 hours*).



Fully compliance with latest ICAO Annex 14

Reduced Total Cost of Ownership

Fewer systems required for gates with multiple centerlines due to wide-angle LED display and use of video sensors for parallel, angled or curved guidance lines.

*Normal Variant

Honeywell – Leading you safely to the gate

About Honeywell

Honeywell is one of the internationally leading suppliers for superior airport products and systems. In the past 90 years, the company has outfitted over 500 airports worldwide. Our product scope includes: Components for runway/taxiway lighting; Control and monitoring systems Surface movement guidance and control systems; and Visual docking guidance systems.

All our products are in compliance with the latest recommendations of the ICAO and FAA .

Honeywell is renowned throughout the world for innovation, reliability and integrity. Our customers benefit from solid and long-time project management expertise and comprehensive system know-how. With Honeywell, you have a technically leading and future-oriented partner at their side.

For more information

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