LPD

Landing Period Designator

Excellence in
Naval Engineering

ANALYSING CRITICAL MOTION PARAMETERS

Maximise efficiency and increase operational safety

Safety increased

Increased operating window

Real time motion data

LPD is a solid state landing aid system designed to provide a clear, real-time visual indication to the pilot and ship's crew of the optimum time to take-off and land safely.

LPD offers improved operational safetly by minimising over deck hover time and expanding the operating and landing capabilities.

Maximum efficiency

Increase operational safety and maximise efficiency with a potential **green deck status boost of up to 40%**

LPD CONSOLE

- Based on AGI's proven military specification Multi-Function Colour Repeater (MFCR) hardware with embedded LPD software
- Contains the LPD algorithms that are used to calculate the Energy Index (EI) figure from the pre-installed aircraft operational limits and the real time information received from the MRU
- EI data sent instantaneously to the Pilot Information Display (PID).
- Principal LPD Console page displays same EI symbol as viewed by the pilot on the PID, as well as ship's motion parameters in digital and analogue format.
- Other available pages: status screen, data history, configuration page
- Optional pages: SHOLDS, meteorological and own ships data pages
- Available size: 15" MFCR

PILOT INFORMATION DISPLAY (PID)

- Mounted on flight deck to display EI in traffic-light-system
- Signals shown are instantaneous from LPD Console and updated in real time.
- Suitable for both Night Vision Device (NVD) and naked eye
- PID can be linked to or replace the Wave-Off Lights
- Tri-colour LED indicator system
- Long-life LED light sources - typically 100,000 hours
- Dimensions: 780mm (h) x 738mm (w) x 190mm (d)

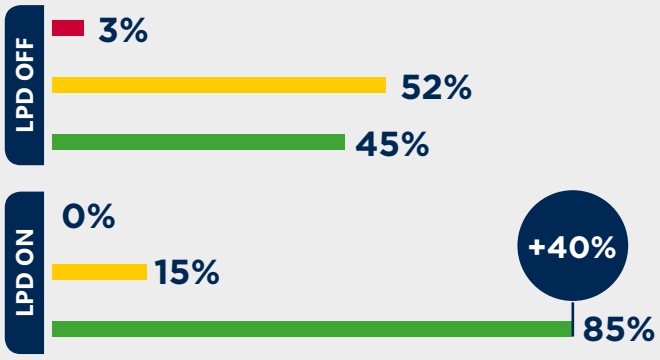
MOTION REFERENCE UNIT (MRU)

- Mounted directly beneath the flight deck to provide best possible heave measurement and avoid possible error from long lever arms and ship hull torsion
- Real-time motion data from the MRU is sent directly to the LPD console for calculating Energy Index (EI)

USN - SH-60B Seahawk Trial:
Deck Status on Launch / Recovery

Unsafe Caution Green

DAY *

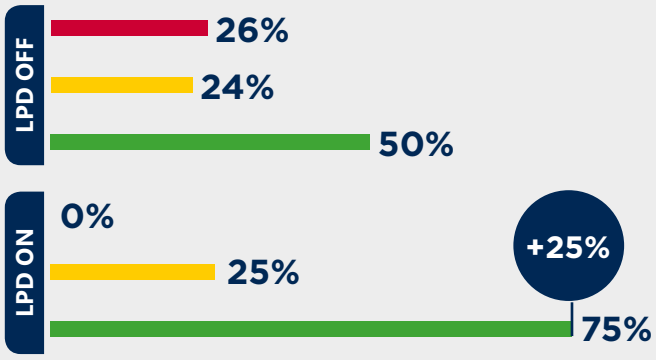


40% INCREASE IN GREEN DECK STATUS FOR LAUNCH & RECOVERY

RED DECK STATUS **ELIMINATED** FOR LAUNCH & RECOVERY

*Results recorded during 'At Sea' trials on Frigates & Destroyers

NIGHT *



25% INCREASE IN GREEN DECK STATUS FOR LAUNCH & RECOVERY

RED DECK STATUS **ELIMINATED** FOR LAUNCH & RECOVERY

*Results recorded on US LPD manned Simulator on Frigates & Destroyers'

For more information or to enquire about our **bespoke design services** please get in touch:

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