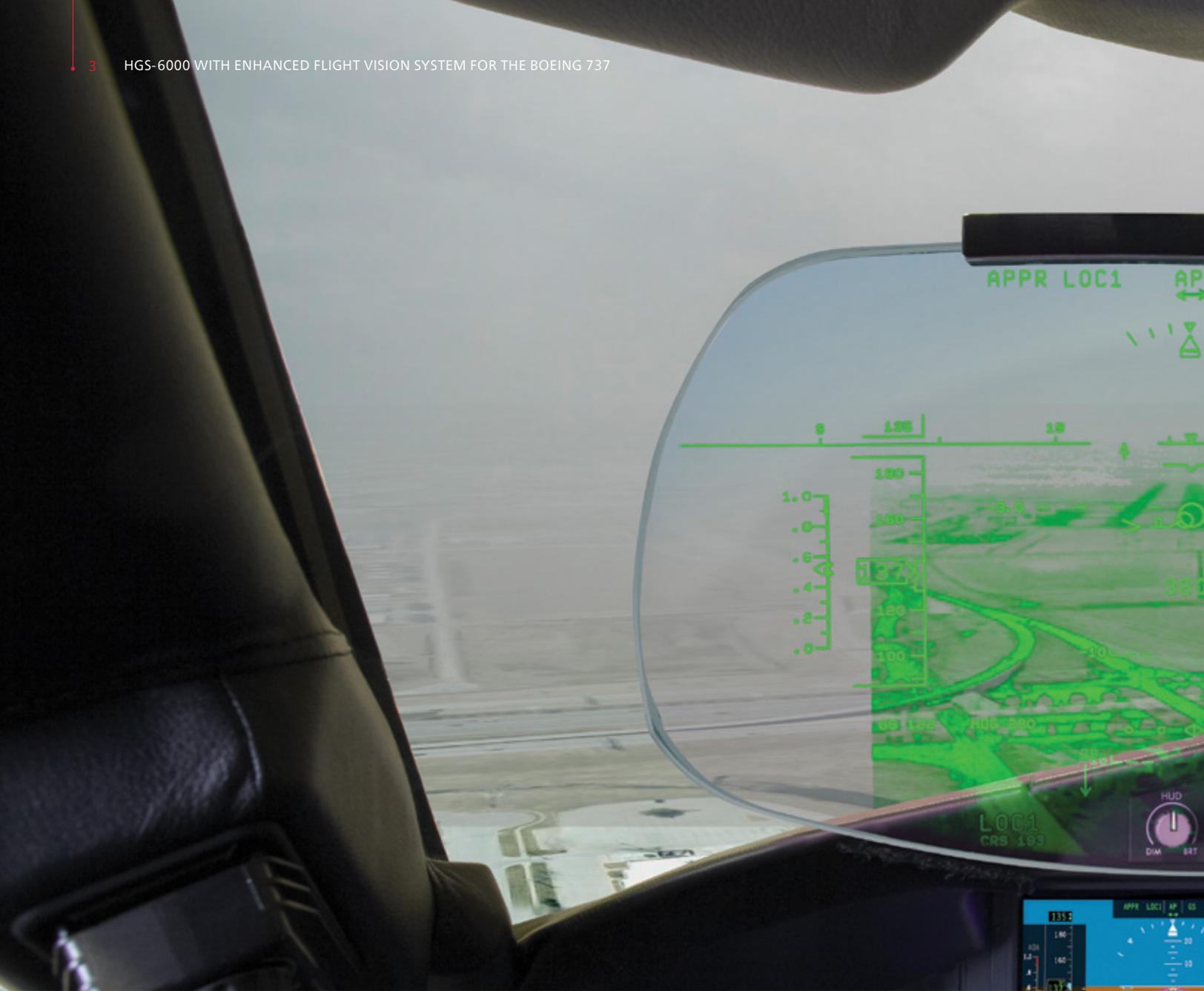


WHEN CONDITIONS ARE AT THEIR WORST, YOU'RE AT YOUR BEST

Real-time, eyes-forward capability that enhances safety and operations





BETTER VISION, GREATER PRECISION

Collins Aerospace's Head-Up Guidance System, HGS™-6000, is the latest head-up display technology available for Boeing 737 fleets.

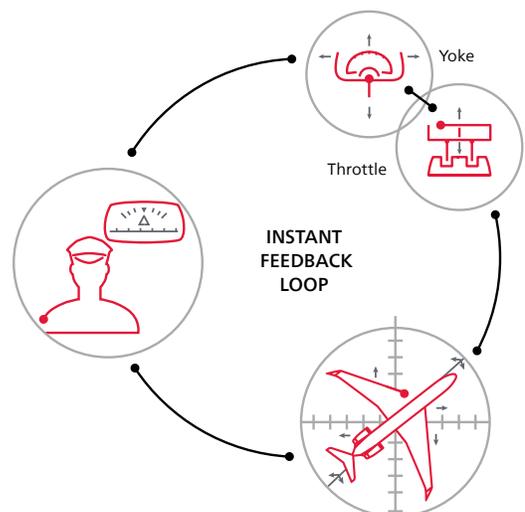
The HGS™-6000 can decrease operational costs and maximize on-time performance with:

- Low Visibility Takeoff (LVTO)
- CAT I - III Approach Guidance
- Rollout guidance
- Autonomous flare
- Tailstrike avoidance

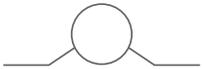


SEAMLESS EXTENSION OF THE PILOT:

- Enables eyes-forward flying, improving reaction time
- Provides the best aircraft feedback system
- Enables approach visualization
- Improves training methods
- Increases situational awareness



HEAD UP, EYES FORWARD



FLIGHT PATH INDICATOR

- Inertially derived
- Instantaneous indication of where the aircraft is going



CLIMB



DESCEND AND FLY LEFT



GUIDANCE CUE

- Uses landing aid (ILS, GLS) and IRS to compute and position cue

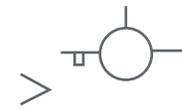


PERFECT

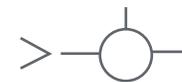
ENERGY MANAGEMENT



FAST, BUT DECELERATING



SLIGHTLY SLOW & DECELERATING



STABLE

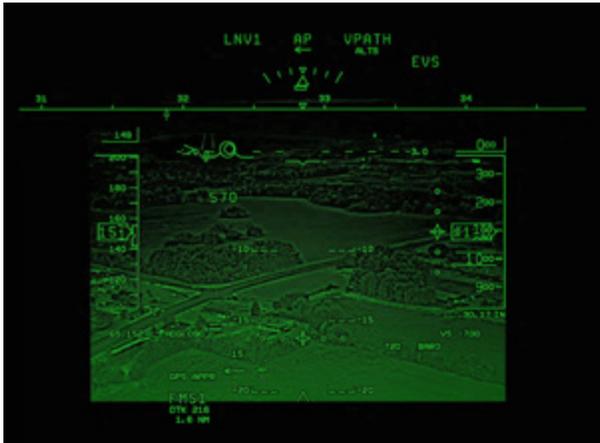
HGS REDUCED OPERATING MINIMA (RVR)

CAT	US	EUROPE/ BRAZIL	CHINA
I	1800 ft	550 m	550 m
SA I	1400 ft DH 150 ft	450 m	450 m DH 45 m
II	1000 ft	300 m	300 m
III	600/400 ft	200 m	-
Takeoff	300 ft	75 m	200 m CAT I

EFVS EXPANDED MINIMA - BRINGING CAT I TO NEW LOWS

FAA	FAA CFR	CS AWO	EXPANDED MINIMA
EFVS Approach System	91.176B	EFVS-Approach	Utilizes EFVS to 100 ft
EFVS Landing System	91.176A	EFVS-Landing	Utilizes EFVS to landing

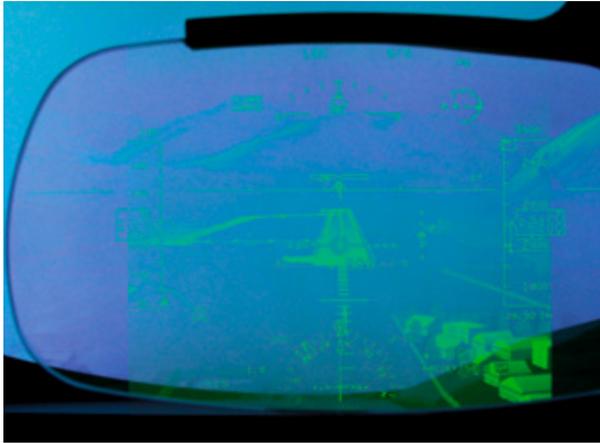
Vertically guided approach required (ILS, GLS, LPV, RNP)



Enhanced Flight Vision System (EFVS)

EXCEEDING HUMAN VISION

- See through weather and low-visibility conditions
- Reduced decision height EFVS approach and EFVS landing/rollout
- Lower the risk of runway incursions and excursions



Head-Up Guidance System (HGS) and Enhanced Vision System (EVS)

VERIFIED VALUE FOR SAFETY AND YOUR BOTTOM LINE

- Fewer diversions:
 - Save on fuel and reduce go-arounds
- Improved safety:
 - Eliminates/reduces hard, short and long landings as well as runway excursions
 - Prevents obstacle collisions on runways
- Maintenance savings
 - Reduces wear and tear on wheels, tires, brakes, flaps and engines

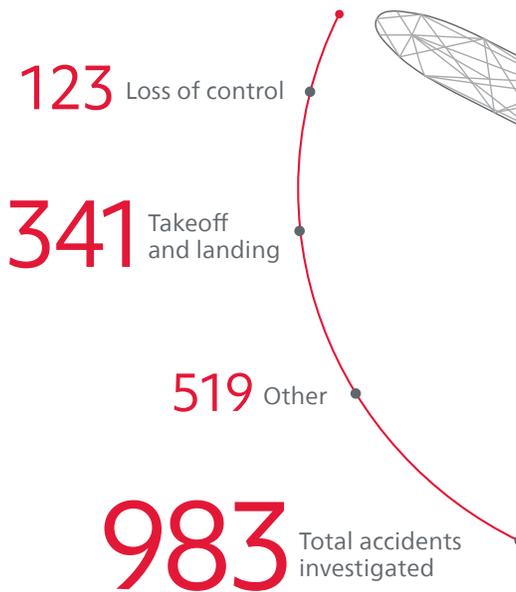
READY TO EQUIP

* PRODUCT	RETROFIT	LINE FIT
Left HUD	Available	Available
Right HUD	Available	Late-2024
EVS-3600	Available	2025

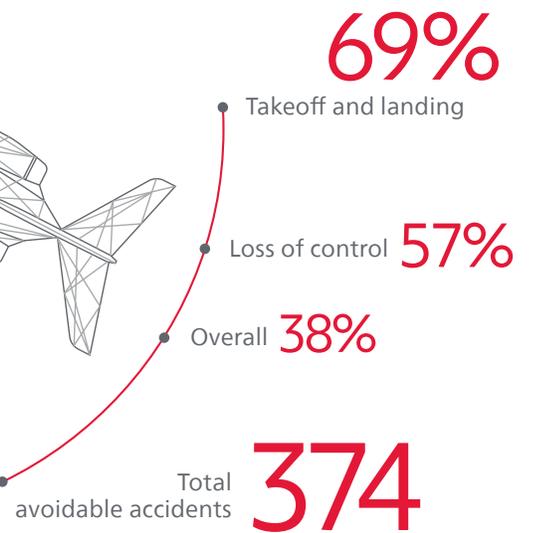
*Single and dual HUDs, as well as EFVS, are available for all Boeing 737NG and 737 MAX models.

IMPROVED SAFETY IS POSSIBLE

ACCIDENTS INVESTIGATED



ACCIDENTS THAT LIKELY COULD HAVE BEEN PREVENTED WITH A HUD**



Fly and land with greater confidence



Real-time, eyes-forward capability



Improves safety



Enhances operations



Maximizes the efficiency of pilot training



Economic benefit

**Flight Safety Foundation

Twice the performance: Dual HUD and other orientations available

Enables the right-seat pilot to perform at the same capability as the left-seat pilot

Avoids waiting time for low-visibility operations (LVO) qualifications that lead to:

- Delays, diversions and disruptions



To learn more, go

→ collinsaerospace.com/EVSAsia

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