

HGS™-6500 with Enhanced Flight Vision System
for the Lockheed Martin C-130J and C-130H

SEE THROUGH THE
WORST CONDITIONS
NATURE HAS TO OFFER

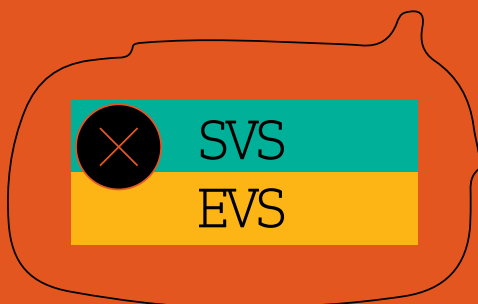
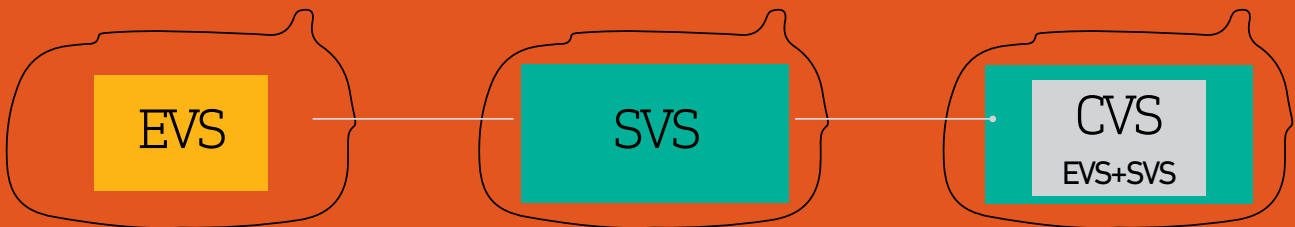
Real-time, eyes-forward capability that enhances
safety and operations



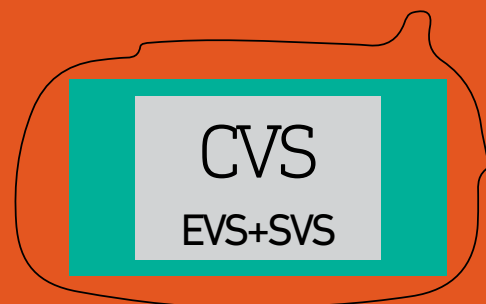
Collins Aerospace

Collins CVS: True combined vision

Collins' advanced algorithm detects, extracts and optimally presents content to the pilot.



Don't settle for "complementary" vision systems



Equip with one that is truly combined

BETTER VISION, GREATER PRECISION



The Collins Aerospace Head-Up Guidance System (HGSTM) for C-130J and C-130H aircraft is designed to meet the unique missions of the aircraft. Our HGS provides the latest digital head-up display technology available for military operations.

- Enables precise approaches
- Descend below DA/DH approach minimums
- Improves covert and mission-critical operations

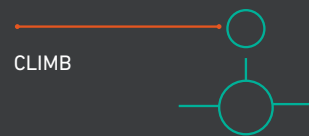
Head up, eyes forward

- Provides a conformal display
- Shows the flight path in all flight stages
- Enables greater awareness of the aircraft energy state



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



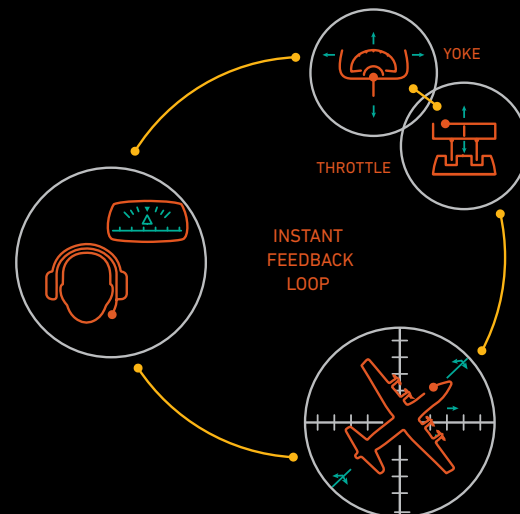
SLIGHTLY SLOW & DECELERATING



STABLE

Seamless extension of the pilot: Pilot in the loop

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



EFVS: Enhancing missions

- Multispectral infrared technology
- Enables pilots to see through fog, smoke, sand and other low-visibility conditions
- Assists in nighttime tanker refueling and formation flying
- Provides passive identification of terrain obstacles



HGS reduced operating minima (RVR)

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

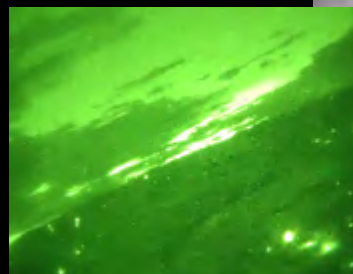
EFVS expanded minima – bringing CAT I to new lows

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)

Own the night: Augment night-vision goggles

- The EVS sensor can be used independently or to augment NVD/NVG operations
- The HUD/EVS pairing provides improved ground definition at low light levels within FOV



NVIS



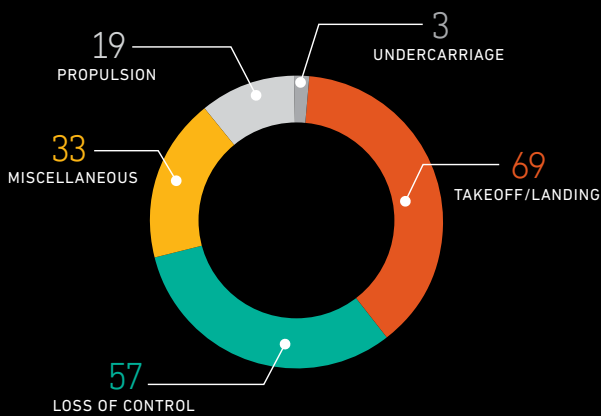
EVS

Unmatched SVS: Triple the vision power of your pilots

- Three layers
 - Terrain
 - Obstacles
 - Airports and runways
- Weather independence
- Worldwide database



PERCENTAGE OF POSSIBLE REDUCTION IN ACCIDENT RISK WITH HGS*



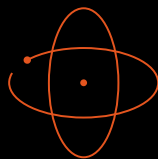
HGS and EVS: Verified value for safety and operations

- Bolsters missions
 - Improves operations at landing zones, drop zones and blacked-out airfields
- Improves safety
 - Eliminates/reduces tail strikes, hard landings, short landings and runway excursions
 - Prevents obstacle collisions on runways
- Saves maintenance costs
 - Reduces wear and tear on wheels, tires, brakes, flaps and engines

Fly and land with greater confidence



Real-time, eyes-forward capability



Improves safety



Enhances operations



Maximizes the efficiency of pilot training

To learn more, go to
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