

# Rockwell Collins Head-up Guidance System® (HGS-5860) for the Dassault Falcon 7X



Unparalleled situational awareness so you can land more places, more often and in more weather conditions.

When low visibility conditions are present or you're flying into an unfamiliar airport, having your aircraft equipped with a Head-up Guidance System® (HGS) from Rockwell Collins provides you the information you need for enhanced situational awareness.

Rockwell Collins HGS-5860 for the Dassault Falcon 7X is an electronic and optical system that improves the way flight information is presented by displaying the information in the pilot's forward field-of-view, eliminating the need for the pilot to repeatedly transition between the

head-down instruments and the outside world. The HGS-5860 uses innovative LCD projection technology which provides increased display flexibility while reducing weight and improving reliability compared with traditional CRT-based systems.

#### KEY BENEFITS

- › Improves monitoring and control of the aircraft's energy state and flight path through intuitive display of attitude, path vector and acceleration
- › Improves stability and precision on all landing approaches, including "black hole" approaches to airports not equipped with precision landing aides
- › Improves accuracy of approaches and landings in both VMC and IMC conditions

#### FEATURES

- › Inertial flight path indication provides instantaneous symbology of where the aircraft is headed
- › Runway remaining display during landing rollout contributes to smoother deceleration
- › Crosswind and wind shear indications enable more accurate flight path control while keeping pilots' attention focused outside the windscreen

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#### EXPANDED OPERATIONAL CAPABILITY

- › Category IIIA approach and landing ready
  - 50 foot DH and 600 foot (200 m) RVR
  - Lower RVR permissible on selected Type I facilities via FAA Order 8400.13 and European equivalents
- › Enhanced Flight Vision System ready, upgradeable via service bulletin
  - Lower minima permissible for selected Category I and NPA approaches

#### ENHANCED PEACE OF MIND

- › Wide field-of-view for optimized visibility on approach
- › Innovative LCD projection technology for maximum reliability
- › Conformal localizer deviation and heading scale provide intuitive presentation of aircraft state
- › Dynamic flight path vector and acceleration symbols provide an instantaneous eyes-forward indication of where the aircraft is going
- › Head-up traffic avoidance cues through smart TCAS integration
- › Enhanced wind shear and crosswind awareness with clear head-up symbology

#### HEAD-UP GUIDANCE SYSTEM SPECIFICATIONS

Total display field-of-view	30° vertical by 36° horizontal
Instantaneous and binocular field-of-view	30° vertical by 36° horizontal
Display brightness	>2000 ft-L
Reliability	>30,000 hours average: LRU MTBF — 25% improvement over CRT-based systems
System LRUs weight	43 pounds (19.5 kilograms)
Bit coverage	>95%
Total power consumption	<200 watts @ 28 VDC
Combiner design	Light weight thin shell glass. Control panel matches OH console orientation

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

#### Building trust every day.

Rockwell Collins delivers smart communication and aviation electronics solutions to customers worldwide. Backed by a global network of service and support, we stand committed to putting technology and practical innovation to work for you whenever and wherever you need us. In this way, working together, we build trust. Every day.

#### For more information contact:

Rockwell Collins  
400 Collins Road NE  
Cedar Rapids, Iowa 52498  
319.295.4085  
email: [csmarketing@rockwellcollins.com](mailto:csmarketing@rockwellcollins.com)  
[www.rockwellcollins.com](http://www.rockwellcollins.com)

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