



PANORAMA™ HILITE DISPLAY SYSTEM

LIGHTWEIGHT, DISTORTION FREE

Collimated glass display

Collins Aerospace has over 20 years experience delivering industry leading, accreditable extended field of view mirrors for military and commercial simulators. Our Panorama™ HiLite display system is a collimated glass solution that is lighter, has fewer segments and reduced installation time than typically associated with large field of view collimated displays.

MODULAR DESIGN

Collins HiLite display uses 11 foot radius glass modular sections to provide scalable fields of view up to 300 degrees horizontal and 60 degrees vertical relative to film mirrors which are limited to 225 degrees horizontal. In addition, it provides enhanced geometric accuracy (level D compliant) throughout the entire field of view. This accuracy simplifies segment edge-match alignment and eliminates unusable peripheral dead band areas associated with film mirrors.

Our modular design approach, coupled with superior optical coating, enables HiLite's individual glass sections to be replaced in the field without visible discontinuity distracting from the scene fidelity.

KEY FEATURES AND BENEFITS

- Geometrically accurate throughout the total field of view
- Superior optical coating providing consistent color and reflectivity, removing the need to match mirrors
- Lightweight glass design reduces impact on motion systems
- Fewer mirrors per system due to each segment covering 40° horizontally
- Consistent sizing with 11 ft. Panorama film mirrors simplifies upgrades to fielded systems

STANDARD HILITE OFFERINGS

Our HiLite display system provides collimated, out-the-window views through the forward and side windows of the simulator cockpit. Typically projected onto a back projection screen located above the cockpit, the image is viewed on a large-radius collimating mirror positioned around the cockpit.

The collimating mirror uses coated glass that provides a high degree of reflectivity. It is also lightweight and eases integration for the simulator provider. It offers motion compatibility and will also support night vision training requirements.

The Panorama HiLite display has been designed to integrate with existing infrastructure lending itself to system upgrades. It supports unobstructed fields of view up to and including 300 degrees horizontal by 60 degrees vertical. Each mirror is tailored to suit customer or end user requirements by using multiple 40 degree segments in combination to achieve the overall horizontal field of view.

Our standard HiLite offerings are tailored and available for the business jet, air transport, military tanker/transport and helicopter training markets, as well as for single seat auto racing applications.

CUSTOM SOLUTIONS

Collins can design and deliver custom solutions outside of the standard offerings by leveraging our extensive system engineering capability. We have delivered over a dozen variants of Panorama, with multiple sized radius systems developed and delivered. These include extended field-of-view options such as chin windows.

Design options are available to accommodate simulators that are transportable or for custom applications such as driver training and other non-flight applications.

Our design portfolio includes multiple combinations of front and rear-projection models and accommodates a broad range of projector technologies. We will work with you to design the optimal solution for your requirements.



ADDITIONAL PRODUCTS AND SERVICES

Our broad range of products include options to complement the Panorama HiLite display system and facilitate system integration.

Proven system-level analysis capabilities, along with our portfolio of innovative display management and integration tools, will optimize your overall solution. These include automated alignment and other projector and display management options.

We offer a finite element analysis (FEA) to ensure the overall structural integrity of the display. The display FEA will be suitable for sharing with the customer or end user to support simulator integration.

Collins Aerospace offers a total solution, which includes our own projector designs. We can support you throughout the life cycle of your display, providing service and support tailored to your specific needs, including upgrade options to maximize performance while extending system life.

Specifications subject to change without notice.



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