

AEROSPACE SOLUTIONS

RESPONSIVE. PRECISE. INTUITIVE.

From the cockpit to the cabin and even the galley, Touch International's award-winning multi-touch products satisfy strict FAA regulations and keep the industry touching. Mostly used for in-flight entertainment systems, navigation devices and maintenance equipment, our touch screens help to increase airline profits with smart engineering and savvy styling. Complying with Boeing and Airbus, as well as other aerospace requirements, our touch display solutions are designed to be light weight, flame retardant, shatterproof, and highly durable.

APPLICATION REQUIREMENTS

By integrating display enhancements and other value-added solutions, Touch International is able to conquer environmental challenges and improve display functionality and performance.



Cockpit Instruments



- Fire Retardant
- FAA Compliant
- Low Reflection
- Highly Accurate & Responsive
- High Altitude
- Low Emissions



In-Flight Entertainment

- High Temperature
- Optimized Viewing Angle
- HIC Compliant
- Low Weight
- Low Toxicity
- Lower Power



Maintenance Systems



- High Temperature
- Sealable
- Glove Activated
- Sunlight Readable
- Low Emissions
- Works with On-Screen Contaminants



Simulation & Training Equipment

- Reduced RF Noise
- NVIS Filter
- Multi-User Capable
- High Optical Clarity
- Enhanced Brightness
- Optimized Viewing Angle



Contact a sales representative at Touch International today for additional information about our Aerospace Display Products and Solutions.

Aerospace In-Flight Entertainment

INTERACTIVE DISPLAY FOR PASSENGER INFOTAINMENT



Background

The customer wanted an interactive solution that combined everything from games to movies for airplane passengers. The solution would be mounted primarily in seat backs, and needed to be between 8-10 inches diagonal in size.

Challenges

The application required multi-touch for game play and excellent optics and video resolution for movies. The FAA (and other) regulations have strict requirements for things like flame, smoke, toxicity, head impact, EMI, and more, so standard PCAP touch panels are not an option. The total weight of the solution was paramount when selecting display and touch panel materials.

Summary of issues to consider

1. Flush-fit, bezel-free, scratch-resistant, multi-touch sensor.
2. Highest resolution possible, in the lightest weight display.
3. Scratch resistant, anti-glare, anti-fingerprint, durable first surface.
4. Custom cover glass graphic and logo.

Solution

Touch International has a proprietary stack-up of materials developed specifically for aerospace applications that meets or exceeds Boeing, Airbus, and FAA requirements.

TI solution key feature overview

1. 10.1" Industrial wide-temperature display.
2. UV Cured, hermetic seal perimeter bond.
3. 10-Point multi-touch P-CAP with proprietary construction that meets HIC, flame, smoke, toxicity, and more aerospace regulations.
4. Plastic flush-fit bezel and mounting backer combination.

By offering a combination of proprietary touch technology, display enhancements, and the latest in displays on the market, Touch International was able to provide a complete solution that was easily certified and installed.

Combined decades of experience in aerospace, military, medical, and other high reliability markets gave Touch International a definite advantage over the competition in developing this solution.