

# Global Digital Glass Military Aircraft Cockpit Systems Market 2013-2023: Multi-Function Displays (MFD) for Fighters, Airlifters, Trainers & Helicopters

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## **Abstracts**

Digital glass cockpit systems, which have for many years been prevalent in the civil aviation sector, are becoming an increasingly effective means for military aircraft operators to add capabilities to their fleets. As well as reducing the information management workload for pilots who are tasked with coordinating ever larger networks of sensors and platforms, digital glass cockpits can lead to weight and power savings over traditional instrumentation, allow easier interaction with civilian air traffic control, lower accident rates and enable faster training for new pilots. Visiongain assesses that the global digital glass military aircraft cockpit systems market will total \$1.71bn in 2013.

Modern digital glass cockpit systems use liquid crystal display (LCD) screens to display critical flight information, although in early examples bulkier cathode ray tube (CRT) monitors were used. Also known by a variety of similar acronyms such as electronic flight information systems (EFIS) and cockpit display system (CDS), glass cockpit displays are usually based around primary flight displays (PFDs) engine indications and crew alerting system (EICAS) and multifunction displays (MFDs), which allow clusters of mechanical flight instrument gauges to be replaced with graphical representations of information from onboard and external sensors and navigation systems.

#### What makes this report unique?

Visiongain consulted widely with industry experts and has included two full transcripts from interviews with Innovative Solutions & Support and Curtiss-Wright Controls Defense Solutions are included in this report. As such, our reports have a unique blend of primary and secondary sources providing informed analysis. This methodology allows insight into the key drivers and restraints behind market dynamics and competitive



developments, as well as identifying the technological issues. The report therefore presents an ideal balance of qualitative analysis combined with extensive quantitative data including global, submarket and regional markets forecasts from 2013-2023 - all identifying strategic business opportunities.

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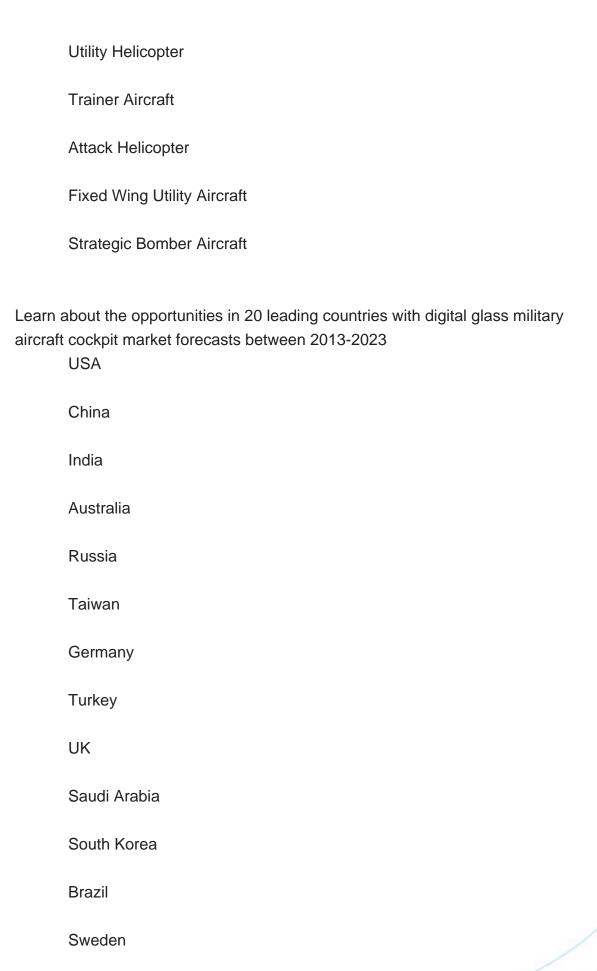
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Fixed Wing Combat Aircraft







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	Barco Inc
	Cobham PLC
	EADS Group
	Elbit Systems

Esterline Technologies Corporation



Finmeccanica Group

General Electric Company

Honeywell International Inc

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## **About**

#### **Innovative Solutions & Support**

Innovative Solutions & Support, Inc. is a diversified international avionics supplier to civil, military, business, and commercial markets and operators. IS&S manufactures a broad range of RVSM compliant Air Data Systems, Flat Panel Display Systems, Fuel quantity and flow measurement and Engine Hydraulic displays.

## What Is IS&S's Background in Digital Glass Military AircraftCockpit Systems?

Visiongain: Can you tell me a bit about your company? Green: We are a relatively small company focused on cutting edge high technology avionics, including air data systems and flat panel displays. We supply pilot multifunction displays and back end mission displays for military aircraft. For more information I'd refer people to our website, which is www.innovative-ss.com . We cover three sectors; general aviation, commercial aviation and the military sector. I would say we devote equal attention and effort to each of these sectors.

#### How is IS&S Structured?

Visiongain: How much of your business is derived from cockpit displays? What products or services do you offer in the cockpit display market? Green: I couldn't quote a percentage, but I would say that the leading edge of the technology we provide is in cockpit displays. At the same time we produce the OEM altimeter used in the current production F-16, which is a very high technology altimeter. It's nearing the end of its testing in the A-10 and recently passed a 15G random vibration gunfire test, and it takes some very high technology to withstand that kind of vibration and still have over a 20,000 hour MTBF (mean time between failure).

So while I'd say that glass cockpits are a very appealing, very visual type of technology, there's still a good bit of high technology in our air data products, such as altimeters and digital air data computers (DADC). We just fielded some new digital air data computers for the US Air Force 707 platform. We're also being considered for a DADC upgrade on another large platform. We also do back-end or below deck solutions, advancing RVSM technology and making digital air data computers more reliable and more accurate.



## Astronautics – an Early Adopter of Glass Cockpit Technology

Established in 1959, Astronautics Corporation of America is a privately held avionics and flight instrumentation company based in the USA. Astronautics has historically installed systems on several US aircraft, including the B-52, F-4, A-4, C-130, UH-1 and P-3, and has been in the cockpit display industry since before the advent of liquid crystal displays, as a supplier of cathode ray tube cockpit displays. The company now supplies platforms including the B-1, B-2, C-17, P-3, F-15, F-16, T-38, Tornado, PC-9, A-109, and B-412.

Astronautics' products in the military glass cockpit systems market include its ATI Electronic Flight Instruments, electronic warfare displays and a large range of multifunction displays. These systems cater for aircraft system interfaces such as ethernet MIL-STD-1553, ARINC-429, ARINC-453/708, analogue, discrete, synchro, and serial. Despite dependence on a currently shrinking US budget for glass cockpit systems, Astronautics Corporation should be well placed to take advantage of its broad compatibility with platforms in its home country.



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