

Glass Cockpit Trainer (GCT)



The Glass Cockpit Trainer (GCT) provides all the necessary instrumentation for transition training



The Glass Cockpit Trainer (GCT) is a modular, portable, desktop solution to your transition training requirements. In addition to providing a complete Primary Flight Display (PFD) and Navigation Display (ND), the GCT also includes a fully functional FMC/CDU modeled after the Boeing/Smiths unit.

The front panel also includes the Engine Instrument Caution and Alarm System (EICAS) Display, Landing Gear Panel, Brake Panel, pilot's EFIS Panel, Digital Clock/Timer, and Mode Control Panel.

Flight Director functions include pilot selectable Dual Cue or V-Bar.

The GCT provides maximum flight simulation fidelity at minimum cost. Using the latest in COTS PC-Based simulation technology, the GCT provides:

- FAA approved level 2 Flight Training Device (FTD)
- Real-time weather download from the National Weather Service
- Fully implemented VNAV and LNAV autopilot functionality
- Jeppesen World-Wide database



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Main Instrument Panel

The GCT cockpit is an exact 1:1 copy of the Boeing 737-800 pilot's station, including functional EFIS, FMC, MCP, and EICAS.

Environment

The GCT is designed to work in a standard office environment.

Length: 37in. (94cm)
Width: 18in. 46cm)
Height: 19in. (48cm)
Weight: 80lbs. (36.29kg)

Simulation Software

A complete world-wide Jeppesen database of airports and nav aids is included. In addition, the pilot has the ability to add nav aids, waypoints, and specific scenery details.

Using a standard high-speed Internet connection, the simulation software provides real-time weather data which is not only presented on the Out the Window (OTW) display, but also on the ND radar display.

Network Compatibility

The GCT supports both military and commercial networks including TCP/IP, IPX, DirectPlay, UDP, DIS, and HLA.

Visual Display

A single OTW display is provided on a high-resolution 19 in. flat panel LCD display. Customers have the option of adding an LCD projector system with 1600 x 1200 resolution.

Computer Systems

The GCT computer system is comprised of multiple high-performance TCP/IP

networked computers. Five individual computers are used to drive the flight simulation, OTW display, flight displays, and cockpit controls.

Mode Control Panel (MCP)

The MCP is a full-featured unit that includes backlit avionics with bright LEDs and high resolution encoders for a professional look and feel.

Each of the MCP autopilot functions are fully supported including VNAV, LNAV, VOR/LOC, APP, auto throttle, flight director, course select, heading select, altitude hold, and vertical speed select.

Instructor Operator Station (IOS)

The IOS is designed to make lesson setup, control, and post flight debriefing user-friendly. Using a world-wide scenery database, the IOS presents a God's-eye view of the pilot's aircraft.

The instructor can create scenarios including changing weather conditions and systems failures before or during any flight.

FAA Certification

Our software systems are approved by the FAA as a Level 2 FTD as follows: Title 14 Code of Federal Regulations (14 CFR) parts 61 and 141 to satisfy the following additional regulatory requirements for 61.57 (c) (1) - Instrument Experience; 61.109 (i) (1) - Private Pilot Certificate; 141.41 (b) as limited by part 141 Appendices B and C.

Flight Controls

The pilot's flight controls include a hydraulic dampened yoke with programmable switches and hydraulic dampened rudder pedals with toe brakes.



For more information contact:

ACC, Inc.
1063 Grindle Bridge Road
Dahlonega, GA 30533

Phone: 706.865.4002
Email: accinc@alltel.net
www.accinc.us

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