

## 737-800/Regional Jet 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



## 737-800 Glass Cockpit Trainer

### 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](mailto:accinc@alltel.net)  
[www.accinc.us](http://www.accinc.us)

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