PRECISION
FLIGHT CONTROLS

FAA APPROVED

DCX MAX

The Precision Flight Controls DCX MAX is a professional, modular flight training device engineered for high-quality pilot training. With immersive visuals, advanced avionics, instructor-controlled scenarios, motion capability, control loading, accurate flight models, and professional-grade construction, the DCX MAX gives training organizations a powerful platform for developing pilot proficiency, confidence, and operational readiness.

For schools and training centers seeking a durable, flexible, and highly capable FAA-approved simulator, the DCX MAX provides a strong foundation for modern aviation training.

Global scenery

220° Wide x 45 ° Vertical

Detailed Scenery Including Cities, Roads, Terrain, Airports, Custom Weather and Aircraft

Worldwide Scenery / Worldwide Navigation

Unlimited Weather Conditions

VFT To IFR

Turbulence

Volumetric Cloud Layers

Visibility

Winds

Wind Shear

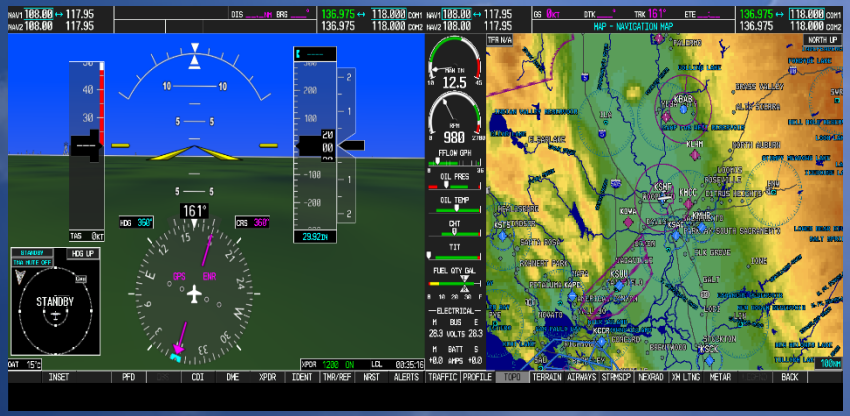
Ground Effects

Icing Conditions

Rain, Fog and Snow

TECHNICALLY ADVANCED
Flight TRAINING

The PFC 1000 Uses Genuine Garmin G1000 Software For Maximum Functionality
Synthetic Vision, TCAS, Safe Taxi and Flight Charts
Nav Data Is Fully Upgradeable



G1000 TECHNICALLY ADVANCED

GARMIN

G1000

PA-34-220T System 1981.00
(c) 2002-13 Garmin Ltd or subs

DATABASE
- Checklist File: N/A
- Basemap Land 5.16
- SafeTaxi Expires 10-OCT-2019
- Terrain 2.04
- Airport Terrain 2.04
- Obstacle Expires 10-OCT-2019
- Navigation Expires 10-OCT-2019
- Apt Directory Expires 10-OCT-2019
- Chart data is out of date!

All map and terrain data provided is only to be used as a general reference to your surrounding and as an aid to situational awareness.

PILOT PROFILE
DEFAULT PROFILE

Press FMS knob to change profile
Press "ENT" or rightmost softkey to continue

GARMIN

G1000

PA-28-181 System 1618.02
(c) 2002-13 Garmin Ltd or subs

DATABASE
- Checklist File: N/A
- Basemap Land 5.16
- SafeTaxi Expires 10-OCT-2019
- Terrain 2.04
- Airport Terrain 2.04
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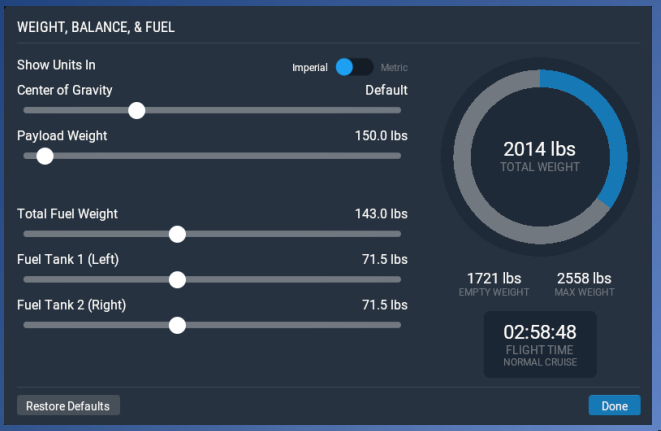
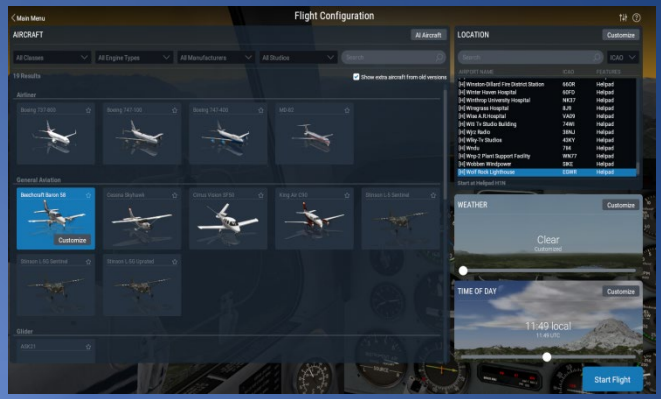
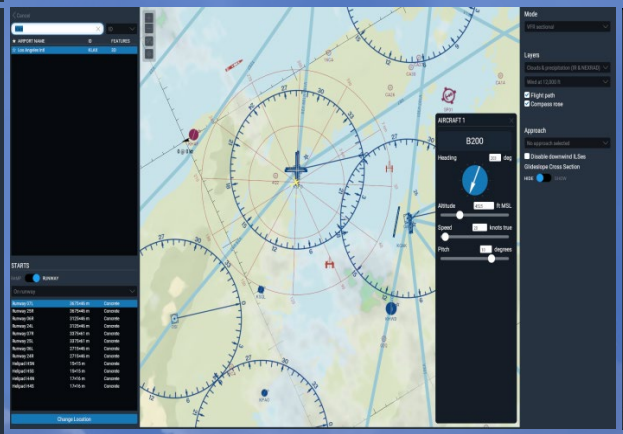
INSTRUCTOR'S STATION

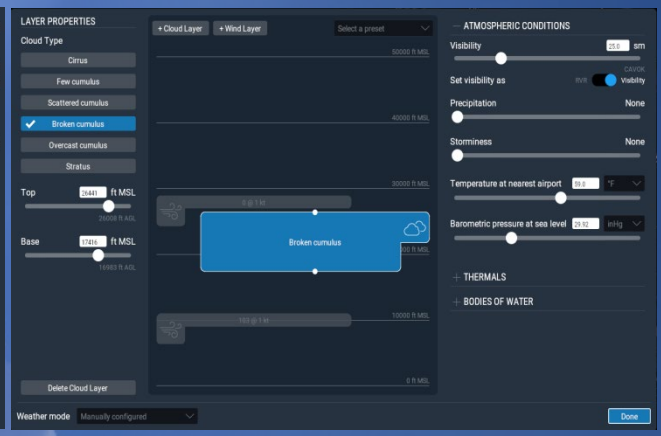


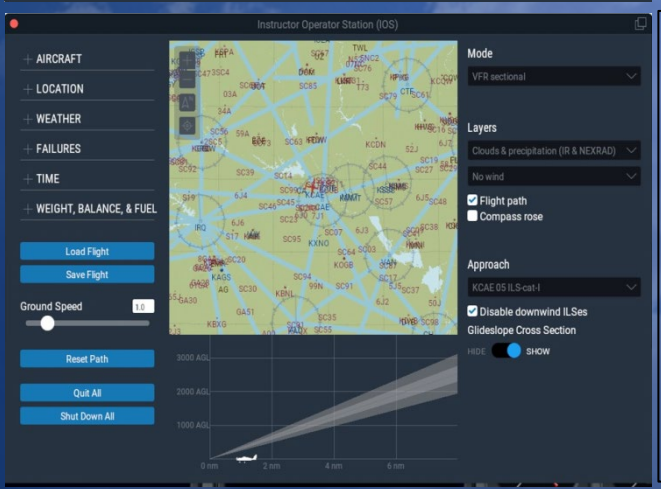
Moving Map Includes:

- Airways
- Terrain (Worldwide Data)
- Airports (Worldwide Data)
- VORs (Worldwide Data)
- IIS (Worldwide Data)
- Glide Path Display
- Airspeed
- Direction
- Altitude



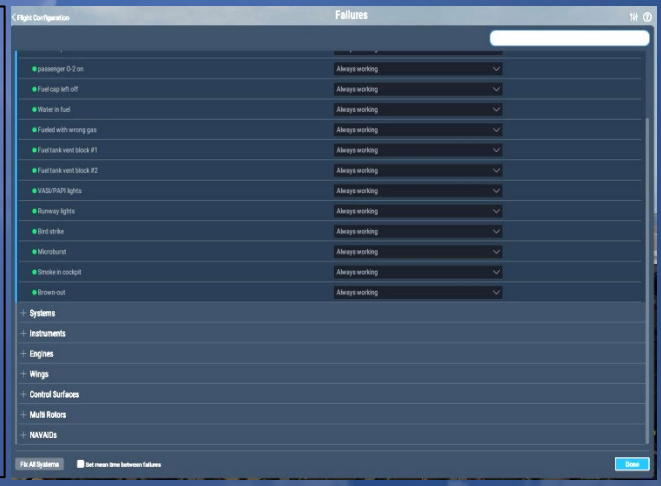






- Instruments
- Re-Positioning
- Weather
- Radio Frequencies
- Airport Information
- Compass Rose/DME/VOR
- Fixes
- Set To Airport
- 3 and 10 Mile Final Approach
- Map Positioning

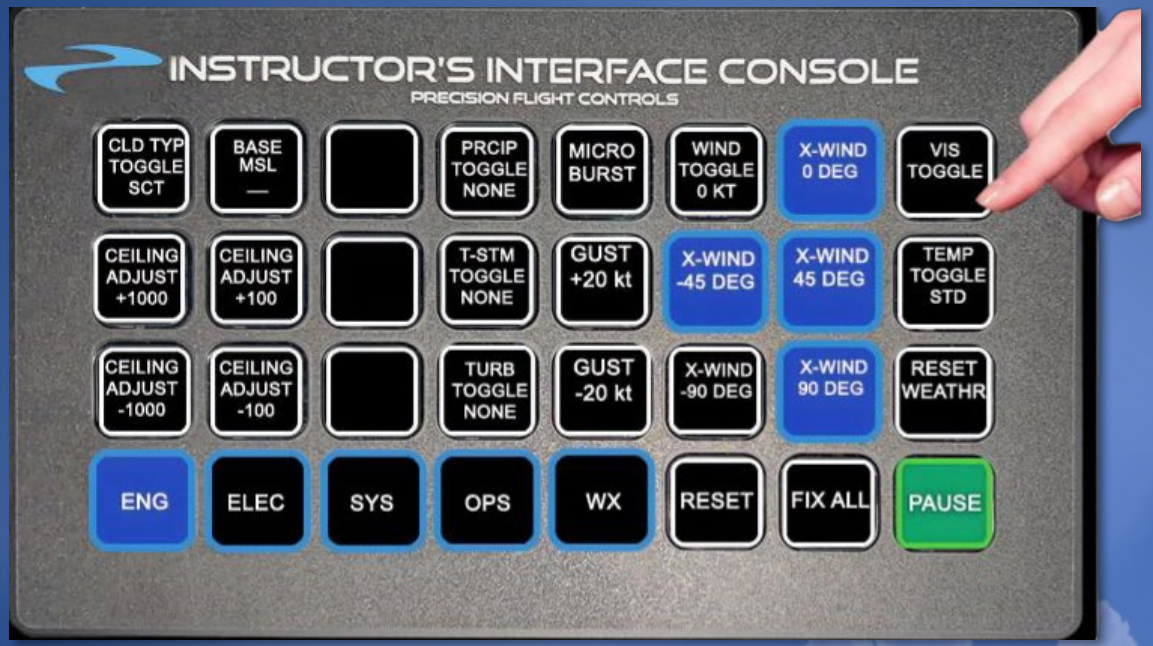
- Traffic
- Weather
- Failures
- Pause
- Freeze
- Record and Playback
- Weight and Balance
- Fuel Shift
- Vertical and Lateral Tracking

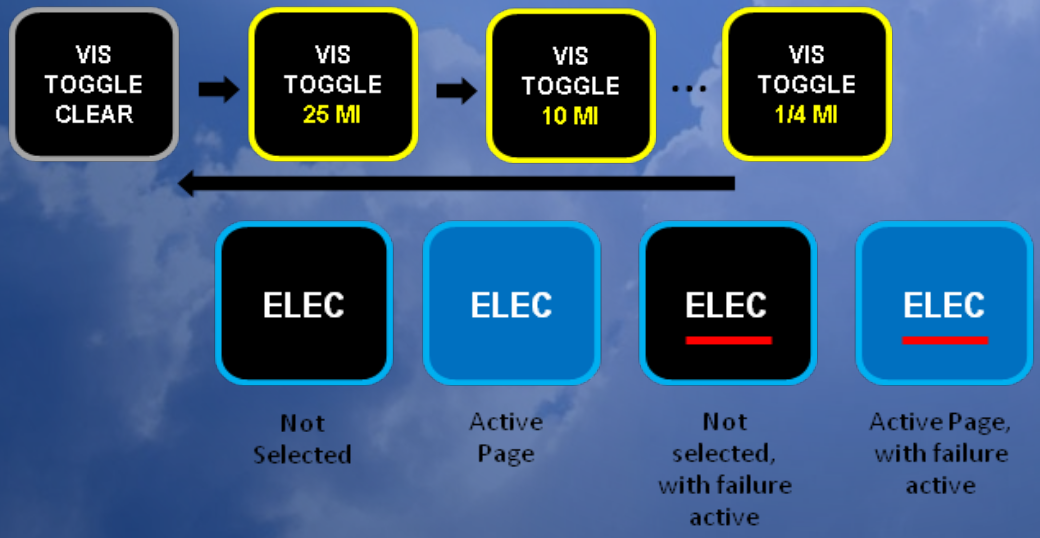


INSTRUCTOR'S STATION

The video recording system provides a bird's-eye view of each training session. Instructors can set up customized scenarios, monitor progress on the Moving Map, and pause or freeze the session at any time for immediate review, evaluation, and pilot/instructor feedback.

Instructor's Interface Console (AKA) IIC





The Instructors Interface Console is a pre-programmed backlit graphic interface for the flight instructor. You can immediately or pre-set a system failure, reposition the airplane, pause the simulation and make weather changes on the fly.

Each tactile button changes color depending on the situation, for example: If you choose to set an engine fire push the Engine Fire Button, (defaulted to green meaning there are no failures selected) once depressed, the button will turn Red indicating a Engine Fire has been initiated). You can reset the failure by pushing the button again.

The Instructors Interface Console comes pre-programmed for immediate use out of the box and is plug and play with a simple USB connection.

Change many training scenario conditions (time of day, weather, etc.) Adjust aircraft various conditions (fuel, weight, etc.) Trigger events and failures (engine failures, systems failures, gusts, etc.)

Simple reset to clear and calm weather
Single button reset to fix all failures
The IIC buttons are bright and dynamic, allowing visual feedback of the operating state via captions, font colors, border colors and/or background colors.

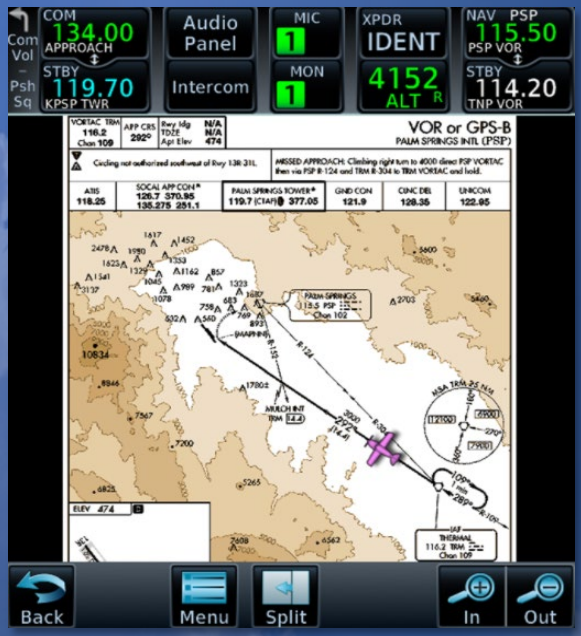
The button usage is much easier for a casual user to learn versus the often many-step process of working through the flight simulation software menus while at the Instructor's Operating Station (IOS).

- AVIONICS
- PFC/GTN 750Xi/650Xi
- All Panels Use Geninuin Garmin Software
- Hight Quality Encoders and Type Specific Knobs
- Crossfill
- 100% Functional

Add the PFC GTN 750Xi/650Xi Touch Screen Interface. Identical to Garmin's™ GTN750Xi and GTN650Xi in both form factor and operations.

Features: Centralized touch-controlled screen providing easy access to navigation, radio tuning, multifunction display features and more, our GTN 750Xi /650Xi navigator offers complete GPS/NAV/COMM/MFD capability in a robust, single solution.

High-resolution terrain mapping, graphical flight planning, georeferenced charting, traffic target surveillance, multiple weather options, taxiway diagrams and a host of other advanced navigation features at your fingertips.



Avionics Comprehension

We Have You Covered!

- PFC 530w
- PFC 430w
- PFC/GTN 750Xi/650Xi
- All Panels Use Geninuin Garmin Software
- Hight Quality Encoders and Type Specific Knobs
- Crossfill Capability
- 100% Functional

Avionics proficiency and comprehension are critical parts of modern pilot training and navigation. Pilots need to understand not only how to operate the avionics, but also how to interpret the information, manage navigation tasks, and respond properly during abnormal or high-workload situations.

The best place to develop and reinforce these skills is in a simulator, where pilots can practice safely, repeat procedures, make mistakes, and build confidence without risk to the aircraft or crew. A high-fidelity simulator allows pilots to learn avionics workflows, GPS navigation, autopilot operation, flight planning, approach procedures, and emergency scenarios in a controlled training environment.

PRECISION
FLIGHT CONTROLS

SERVING THE AVIATION INDUSTRY SINCE 1990
ENGINEEERING * DESIGN * INTEGRATION

FULL MOTION 6DOF

3-4 DOF MOTION

D-BOX

Pitch, Roll Heave and Yaw Effect

D-BOX motion adds realistic motion and tactile feedback to the simulator, allowing pilots to feel aircraft attitude changes, runway surface, turbulence, engine vibration, stall buffet, gear and flap effects, touchdown, and other important flight cues. This creates a more immersive and effective training environment.

Professional Grade Components

DCX MAX Center Control Console
The DCX MAX includes a fully integrated center control console designed to support realistic cockpit procedures and aircraft systems training.

Features include:
Elevator trim
Aileron trim
Rudder trim
Cowl flaps
Interchangeable fuel tank selector panel for multiple aircraft configurations
These components give pilots hands-on procedural training and a more authentic cockpit workflow. The console supports both normal operating procedures and abnormal/emergency scenario training, helping students build familiarity, confidence, and proper habit patterns in a realistic flight deck environment.

3-Axis Control Loading

The **DCX MAX** supports standard procedure training, as well as abnormal and emergency procedure training, with high fidelity, exceptional durability, and unmatched performance.

Its advanced **brushless AC servo control-loading technology** responds realistically to even the finest pilot inputs, delivering an artificial control feel that closely replicates real aircraft handling characteristics — something pilots will immediately recognize and appreciate.

Comfortable Ergonomic Seats
With Fwd/Aft Tilt, Up and Down Movement

Accurate Flight Models

High Performance Computers

Computer Rack Shown With Instructor's Monitor
Precision Flight Controls integrates high performance computer hardware and software components necessary to run the simulator. All computers are installed in a portable computer rack system.
The Instructor's Operating Station (IOS) is located near the aft section of the cockpit for ease of use.

- High Performance Computer Rack System (3 computers)
- IOS monitors (touch screen)
- Keyboard and mouse
- KVM Switch Rack System (Keyboard, Video and Mouse control)
- Multimedia PCs with Intel I9 processors or AMD Ryzen
- Nvidia 5080 or better Video Cards
- Operating systems, Windows Professionals or LTSC and Lennox
- *Gigabyte, MSI or Asus Motherboards 32 gig ram*
- 4k LCD Monitors at DirectX 9.0 API or later
- 5.1 Sound System
- Ethernet, internal and external network capability
- Gigabyte network
- Wi-Fi

FAA AATD Approved

PRECISION FLIGHT CONTROLS

§ 61.51(b)(3)(iii) & (h)	Simulated instrument conditions; Logging training time
§ 61.57(c)(2)	Instrument Experience
§ 61.57(c)(4)(iii)	Instrument Experience
§ 61.57(c)(5)(ii)	Instrument Experience
§ 61.57(d)(1)(ii)	Instrument Proficiency Check, per FAA-S-8081 (latest version)
§ 61.65(h)(2)	Instrument Rating: Up to 20 Hours
§ 61.109(k)(1)	Private Pilot Certificate: Up to 2.5 Hours
§ 61.129(i)(1)(i)	Commercial Certificate: Up to 50 Hours
§ 61.159(a)(3)(i)	Airline Transport Pilot Certificate: Up to 25 Hours
§ 141.41(b)	Approved for use under the Part 141 Appendices as follows:
Appendix B	Up to 2.5 hours toward the total Private Pilot flight training time requirements
Appendix C	Up to 40% towards the total Instrument Ratingflight training time requirements
Appendix D	Up to 20% towards the total Commercial Pilot flight training time requirements
Appendix E	Up to 25% towards the total Airline Transport Pilot flight training time requirements
Appendix F	Up to 5% towards the total Flight Instructor flight training time requirements
Appendix G	Up to 5% towards the total Flight Instructor Instrument flight training time requirements
Appendix I	Private Pilot Airplane Single Engine or Multi-Engine Class Rating Course -
Appendix I	Commercial Pilot Airplane Single Engine or Multi-Engine Class Rating Course -
Appendix I	Airline Transport Pilot Airplane Single Engine or Multi-Engine Class Rating Course -
Appendix M	Up to 25% towards the total Combined Private Pilot Certification and Instrument Rating