



**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

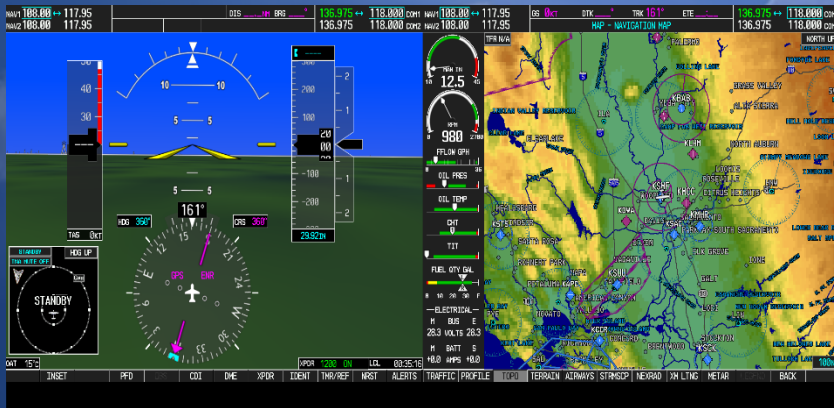
Rain, Fog and Snow



TECHNICALLY ADVANCED Flight TRAINING



The PFC 100 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 19B1.00
(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- Chart data is out of date!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 161B.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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PILOT PROFILE

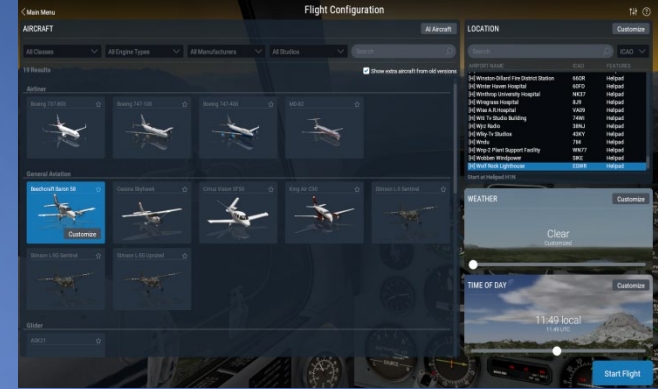
DEFAULT PROFILE

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

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



WEIGHT, BALANCE, & FUEL

Show Units In: Imperial Metric

Center of Gravity: Default Imperial

Payload Weight: 150.0 lbs

Total Fuel Weight: 143.0 lbs

Fuel Tank 1 (Left): 71.5 lbs

Fuel Tank 2 (Right): 71.5 lbs

2014 lbs TOTAL WEIGHT

1721 lbs EMPTY WEIGHT 2558 lbs MAX WEIGHT

02:58:48 FLIGHT TIME NORMAL CRUISE

Restore Defaults Done

X-PLANE 11

Verify Product

Check Servers

Pick Destination

License

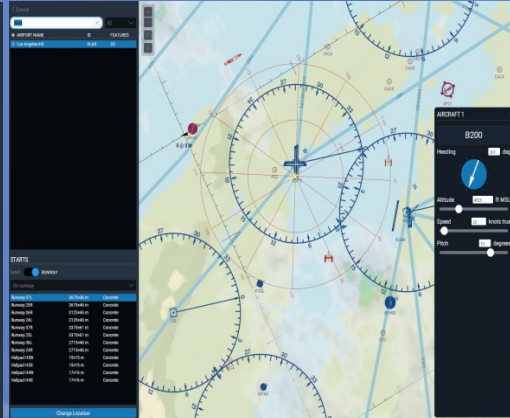
Select Scenery

Click on the world map to select the scenery you would like to install. You can use this installer to add or remove scenery later. If you fly into an area with no scenery installed, you will see only ocean.

Disk size: 1999.5 GB
Free disk space: 1318.4 GB
Disk space needed to install: 6.6 GB
Download size: 4.5 GB (15 minutes)

You have enough free disk space to install X-Plane 11 with the selected scenery.

Cancel Installation Back Continue



LAYER PROPERTIES

Cloud Type: Broken cumulus

Atmospheric Conditions: Visibility 10.0 sm, Precipitation None, Storminess None, Temperature at nearest airport 10.0 °C, Barometric pressure at sea level 30.0 hPa

Thermals: None

Bodies of Water: None

Weather mode: Manually configured Done

Instructor Operator Station (IOS)

AIRCRAFT

LOCATION

WEATHER

FAILURES

TIME

WEIGHT, BALANCE, & FUEL

Load Flight

Save Flight

Ground Speed: 100

Reset Path

Quit All

Shut Down All

Mode: VFR sectional

Layers: Clouds & precipitation (IR & NEXRAD), No wind

Flight path: Flight path, Compass rose

Approach: KCAE 05 ILS-cat I, Disable downwind ILSes, Glideslope Cross Section

HIDE SHOW

- 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

Failures

passenger O2 on	Always working
Fuel cap left off	Always working
Water in fuel	Always working
Fueled with wrong gas	Always working
Fuel tank vent block #1	Always working
Fuel tank vent block #2	Always working
VAD/PAN lights	Always working
Runway lights	Always working
Bird strike	Always working
Microburst	Always working
Smoke in cockpit	Always working
Brownout	Always working

Systems: Instruments, Engines, Wings, Control Surfaces, Multi Rotors, NAVs

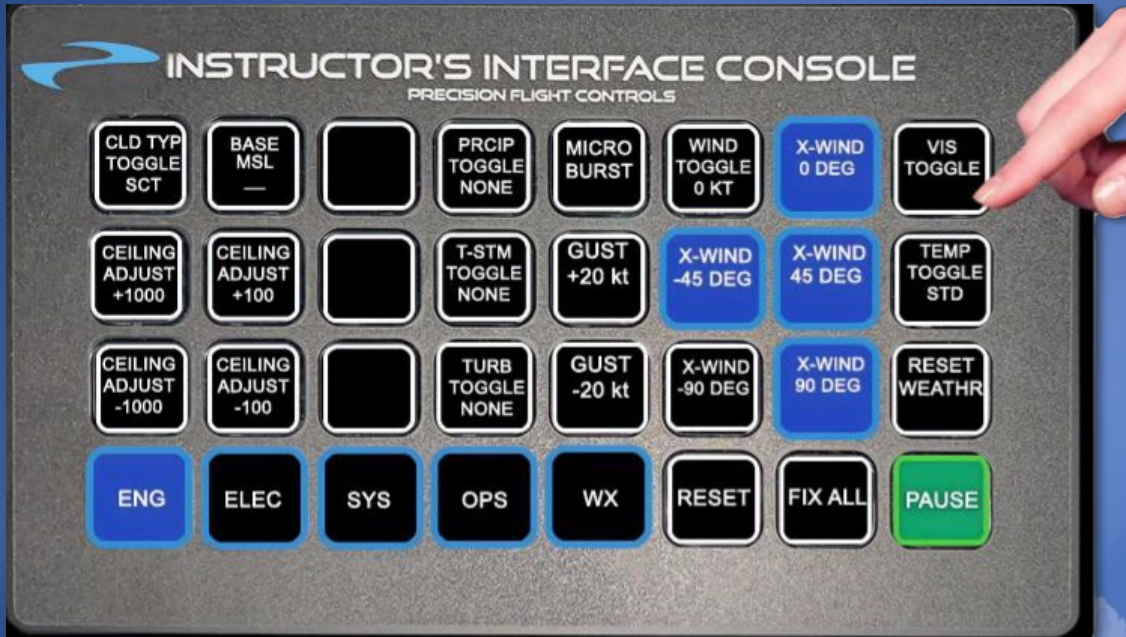
FA/AB Systems Set max time between failures Done

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.

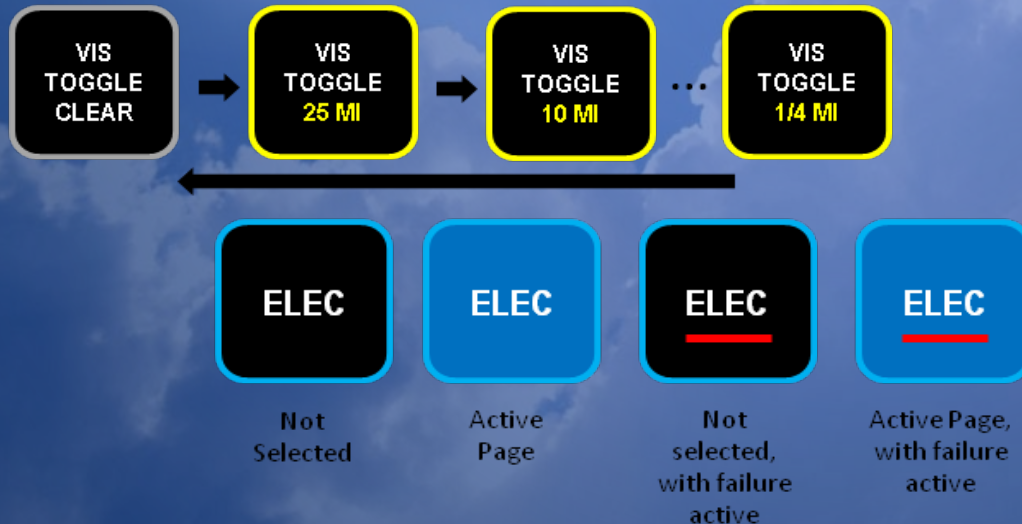
Each tactile button changes color depending on the situation, for example: If you choose to set an engine fire push the Engine Fire Button, (defaulted to green meaning there are no failures selected) once depressed, the button will turn Red indicating a Engine Fire has been initiated). You can reset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



Not Selected

Active Page

Not selected, with failure active

Active Page, with failure active

- AVIONICS
- PFC/GTN 750Xi/650Xi
- All Panels Use Genuine Garmin Software
- High 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.



COM 127.00 APPROACH+
STBY 118.50 KOSH TWR
Audio Panel
Intercom
MIC MON
XPDR IDENT
4152 ALT R
NAV OSH 111.80 OSH VOR
STBY 111.00 MTW VOR

Active Flight Plan

KMWC / KOSH DTK DIS CUM

BAE Badger

Approach - KOSH-RNAV 36 GPS LPV

DOCEN iaf 346° 7.1 NM 7.1 NM

WIVLI faf 004° 6.9 NM 13.9 NM

JUMVO 004° 3.2 NM 17.2 NM

Back MSG Menu Up Down

TERM GPS Com Freq / Psh Nav

COM 135.17 KDL5 ASOS
STBY 123.00 KDL5 UNI
Audio Panel
Intercom
MIC MON
XPDR IDENT
1200 ALT R
NAV LTJ 112.30 LTJ VOR
STBY 116.60 BTG VOR

3000 FT 093°

Auto 15 NM

Auto 7.5 NM

GS 144 KT DIS 14.1 NM

Back Menu CDI OBS In Out

TERM GPS Com Freq / Psh Nav

COM 134.00 APPROACH
STBY 119.70 KPSP TWR
Audio Panel
Intercom
MIC MON
XPDR IDENT
4152 ALT R
NAV PSP 115.50 PSP VOR
STBY 114.20 TNP VOR

VOR or GPS-B PALM SPRINGS INTL (PSP)

ASR	SOCAL APPCH	PALM SPRINGS	GPS-CM	GPS-B	GPS-C
118.25	126.7 370.85 138.279 285.1	119.7 (CH)	377.05	121.9	128.35

Back Menu Split In Out

Avionics Comprehension

We Have You Covered!

- PFC 530w
- PFC 430w
- PFC/GTN 750Xi/650Xi
- All Panels Use Genuine Garmin Software
- High 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.





SERVING THE AVIATION INDUSTRY SINCE 1990
ENGINEERING * 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.

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.

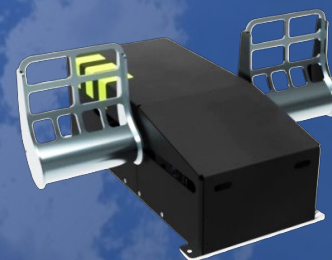
Professional Grade Components



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



ADJUSTABLE ARMRESTS
(ONE OR TWO ARMRESTS)

SEAT TILT
ADJUSTMENT LEVER

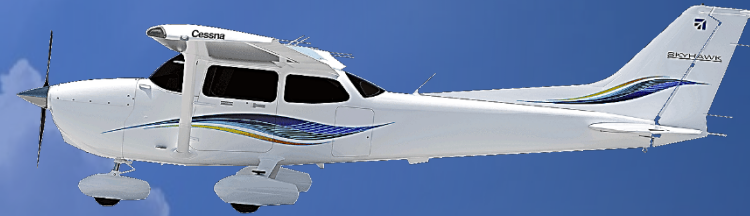
VERTICAL ADJUSTMENT
RELEASE LEVER

FORWARD
AFT RELEASE
LEVER

STEP RELEASE



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

§ 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