

INTERACTIVE PDF

FLIGHTDECK
— SOLUTIONS —

FULLY TACTILE FLIGHT TRAINING DEVICES



**MULTI
DEVICE
OVERVIEW**

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“Leading Academic Institutions, including Colleges, Universities, and Flight Schools have consistently looked to Flightdeck Solutions to meet their training requirements.”

Peter Cos, President, Flightdeck Solutions

Welcome!

Who is Flightdeck Solutions?

Flightdeck Solutions (FDS) is a global provider to the aerospace and aviation industry for a wide range of flight simulation products and services. FDS is trusted for producing high quality, immersive and fully tactile FTD trainers.

Aligning your training with airlines

FDS is the go to supplier for producing highly capable and realistic advanced fixed-base flight training devices to enhance your high quality pilot training program. FDS simulators are the solution of choice for companies and educational institutions around the world for providing excellence in quality while maintaining financial responsibility.



Fully tactile training

No more touch screen

Designed with the pilot in mind and powered by highly accurate avionics software, Flightdeck Solutions training devices take you leaps and bounds closer to the real aircraft than any “IPT” or Touch Screen device.

It's highly beneficial for cadets to “feel” the aircraft and make that physical, spatial connection to the environment they will ultimately be working in.

Proper procedural training demands no shortcuts.

Fully tactile. No touch screen LCDs.



Training Capabilities

Designed with the pilot in mind FDS simulators were constructed to accurately replicate and expose the pilot to all flight maneuvers as they would experience it in the real aircraft. Authentic hardware meets highly capable software - a truly beautiful thing.

FDS devices are ideal for the following requirements:

- Cockpit familiarization
- Crew resource management (CRM)
- Jet transition
- Multi crew cooperation (MCC)
- FMS/ Autoflight training
- Basic and Advanced Procedures
- Interview / Cadet selection
- Human Factors
- Systems familiarization
- Procedures and SOPs
- Aircraft Maintenance Engineer (AME) training

Visual display systems

A 220° FOV wrap-around visual experience

A 200°-220° FOV wrap-around Professional Curved Screen, paired with a high performance HD, 2K, or 4K Direct Projection System form the basis for our visual display systems. Projectors are carefully chosen based on client requirements, and expertly blended to form seamless visuals.

Imagery is real-time rendered with exceptional accuracy, creating a highly immersive visual experience for everyone on the flight deck. Optional upgrades to a Collimated Display System further blur the lines between simulation and reality.



FDS-B737MAX-FTD device with enclosed instructor booth.



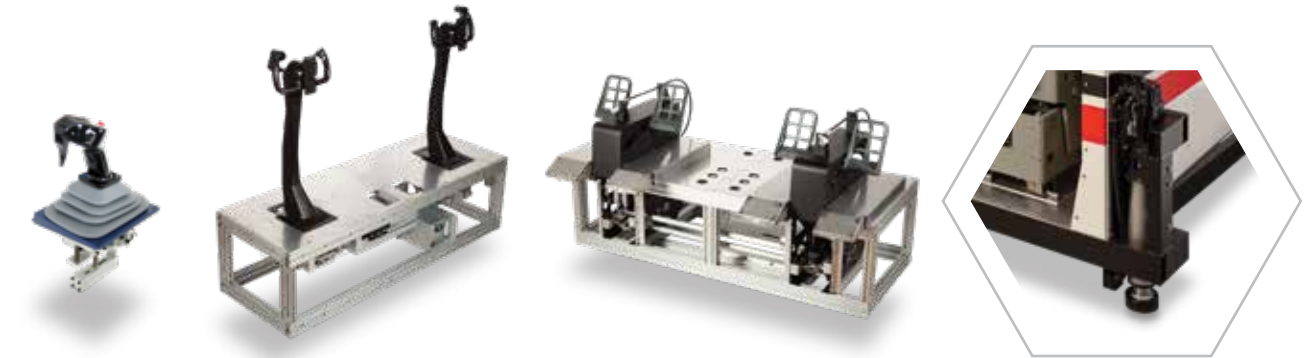
FDS-A320-FTD device with built-in instructor station.

Multi-sensory immersion

Control Loading and Motion Cueing options

Flight controls in a real aircraft feel and behave differently under varying load and atmospheric conditions, a component that can now be part of your training experience. In partnership with Brunner Elektronik, our engineers have developed highly adjustable control-loaded flight controls, providing realistic force feedback to even the finest of pilot inputs.

Taking the realism a step further, our Motion Cueing option helps recreate many of the forces felt during flight. Utilizing a high-level actuator system our devices can tilt, drop, and raise to simulate banking, takeoffs, hard landings, etc.



After-sales support

Partnership for years to come

Over the last 20+ years FDS has built a solid reputation, both for the high quality of the hardware we build as well as our dedication to service and support excellence.

Support means far more than just a warranty for us. It's being a partner with each customer and their FDS devices for years to follow. The delivery and setup are only the beginning.

Device selection

From the A320 to the B737MAX and beyond

Our FDS A320 and B737 devices certainly get a lot of attention in the world of aviation academia, as they represent the typical aircraft many freshly minted pilots transition to shortly after graduation.

To suit varying space, curriculum, and budgetary needs our team has developed several device variants, from entry-level semi-open ATD versions to fully-enclosed, control loading enabled FTDs.

Looking across our offerings, you will also find wide-body airliner devices, turboprop, and fighter jet devices, which our commercial customers typically employ for in-house recurrent or mission training.

[CLICK IMAGES TO VIEW MORE INFO](#)



A320-ATD



B777



B787



A320-FTD



B747



C208



B737MAX & B737NG



Q400



F/A-18

A320

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B737MAX

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B737NG

[CLICK IMAGE TO VIEW MORE INFO](#)



B747

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B777

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B787

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C208

[CLICK IMAGE TO VIEW MORE INFO](#)



Q400

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F/A-18

CLICK IMAGE TO VIEW MORE INFO



Features And Specifications: B737 Example

Cockpit

- Aluminum construction of Main Instrument Panel (MIP)
- Mode Control Panel and EFIS
- Dual Pro-MX E-Series CDU's with one-piece Precision Machined Metal body
- Primary Overhead featuring OEM parts and specialized FDS engineered hardware
- Center Pedestal with exceptional attention to detail and full tactile design
- Throttle Quadrant, featuring:
 - motorized levers
 - variable speed trim wheels
 - full Reverse Thrust capability
 - detented flap lever
 - detented speedbrake with auto deploy / stow
- Engine start levers /fuel flow and trim pointers
- Dual Linked yokes
- Dual linked rudder pedals with toe brakes
- Steering Tillers
- Fully Enclosed Flightdeck including rear instructors station and observers seats
- NG and MAX versions available

Sound System

- Surround sound stereo including realistic HD engine and environment effects
- Cockpit environment warning alerts and cautions, configuration warnings , TCAS Alerts, weather and EGPWS warnings
- Seat Transducer upgrade available

System Features

- Glass cockpit instrumentation
- PFD and ND
- Complete Autoflight systems
- Electrical , Pressurization , Hydraulic , Pneumatic , Fuel and Fire Protection Systems modelling
- Advanced autoflight capability - LNAV / VNAV / RNP / IAN approaches
- Weather Radar
- Terrain EGPWS
- TCAS

Seating

- FDS Manufactured Aircraft Crew seats
- Electronic vertical seat adjustment to 4"
- Built-in fully adjustable back support
- J-rails for ease of entry

Visual Display System

- Wide array of Visual Display System options available
- Common setups include a 1080HD, 2K, or 4K Seamless FOV Direct Projection system with 200°-220° wrap-around Professional Curved Screen*
- Other common choices include large single or multi-panel Flat Panel Display setups, or Collimated Display options

* subject to room dimensions

A few of our customers

Who uses our devices?

Leading Academic Institutions, including Colleges, Universities, and Flight Schools have placed their trust in our professional trainers to propel their students toward the goal of making it to the 'Big Leagues.'

Learn more about our academic devices at bit.ly/FDS-universities



FDS-A320-FTD with a Q4 Collimated Visual System at Auburn University, Alabama, USA.



FDS-B737MAX-FTD at the Southeastern Oklahoma State University Aviation Sciences Institute, Durant, OK, USA.



Dual FDS-B737MAX-FTD devices at the Western Michigan University College Of Aviation, Battle Creek, MI, USA



FDS-B787-FTD device at Trident Technical College, Charleston, SC, USA.

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