

CAE Simfinity™

Integrated Procedures Trainer

The CAE Simfinity integrated procedures trainer (IPT), the industry's first three-dimensional (3D) flat-panel trainer, is now in its third generation. The CAE Simfinity IPT provides a highly cost-effective, fully simulated cockpit in a 3D spatial cockpit environment that combines use of multiple touch-sensitive screens that display simulated panels in the same size as the actual aircraft panels and hardware replica panels. Additional screens are used for the instructor station and active schematics display. The CAE Simfinity IPT can be further enhanced with tactile (hardware) flight controls to further improve the pilot training experience. The IPT is otherwise independent of aircraft-specific hardware and can be reconfigured to fit multiple aircraft types.

The IPT is a powerful and cost-effective procedural and familiarization training tool that gives pilots the ability to "learn by doing". Pilots can train on a range of normal and abnormal procedures in free play simulation. This allows airlines to off-load training tasks that would otherwise be done in a Level D full-flight simulator. When equipped with built-in test equipment (BITE), the IPT can also be used for maintenance training.

The latest generation CAE Simfinity IPT offers a new structure, new liquid crystal display (LCD) screens and the latest touch screen technology to provide full 1:1 ratio for all aircraft types, improved usability and performance, easier and faster reconfiguration between aircraft platforms, reduced maintenance and better aesthetics. In addition, improvements have been made to the instructor tools including integration of the new lesson plan studio (LPS), a powerful and user-friendly instructor tool that is now provided with CAE full-flight simulators thus allowing for portability of lessons between the IPT and FFS. A new virtual instructor feature allows for easy creation of self-paced lessons. These instructor tools help increase efficiency, standardization and improve training effectiveness.

The CAE Simfinity IPT is designed to meet FAA Part 60 Level 4 and JAR FSTD A Level 1 flight training device (FTD) qualification standards. With the addition of the extended product package (EPP), which includes primary and secondary flight controls with electric load units and crew seats, the IPT meets FAA Part 60 Level 5 qualification standards, thus significantly increasing its training value.

The CAE Simfinity IPT is the answer to the industry's need for high-fidelity and cost-effective flight training devices. It is available for most Boeing, including the new 787 and 747-8; Airbus, including the A380; regional, including the EMB-170/190; and business aircraft types.





Basic offering

Features and capabilities

- More than 30 aircraft models available
- Dual rehosted flight management computer (FMC) using vendor software
- Simulated systems derived from Level D full-flight simulator
- Simulated tactile panels (e.g., glareshield, multi-function control and display units [MCDUs], cursor control device [CCD], etc.)
- 1:1 size ratio
- Capability to load customer's own aircraft diskettes for NAV database update
- Instructor operator station (IOS) as per CAE FFS
- Lesson plan studio (LPS) as per CAE FFS
- Aircraft reposition
- Flight and maintenance training malfunctions
- Active schematics
- Audio – aircraft warning and chimes

Minimum systems requirement

- All hardware and software provided by CAE

Device dimensions (LxWxH)

- Up to 90" x 104" x 83" (229 cm x 264 cm x 211 cm)

Power supply requirement

- One outlet of 110 V / 15 A / 60 Hz (220 V / 15A / 50 Hz)

Maintenance support

- 24/7 technical support available

Options

- Simulated tactile throttle quadrant
- Extended product package (EPP) which includes primary and secondary flight controls with electric load units and rail-mounted crew seats
- Cockpit-initiated and line replaceable unit (LRU) BITE for maintenance training
- CAE True™ Environment air traffic control (ATC) simulation
- CAE Tropos™-6000 visual system (single channel)
- Ambient sound simulation (e.g. engine, landing gear, etc.)

Product evolution contract – option

- Keeps CAE Simfinity IPT current with changes made to CAE's product standard which incorporates aircraft configuration changes and feature set improvements

CAE Training Footprint

Ground training (daily)		Full-flight simulator training
Theory	Practice	Handling including LOFT
		
CBT, CAE Simfinity™ 2D	CAE Simfinity™ IPT	CAE 5000 or 7000 Series FFS
Through use of CAE true-fidelity Level D FFS simulation, CAE Simfinity™ enables learning by doing, ensures training consistency and allows for more efficient use of FFS		



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