



Airbus A320-200 (FT49)

Full-Flight Simulator

With our full-flight simulators we offer you a flight training that meets the latest technical standard and is tailor-made for the requirements of modern airlines. Naturally we adapt our simulators so that they reflect your fleet's systems environments and cockpit layouts as well as your airline's procedures. This enables you to orient your training to accord with your own line operations

Location

Lufthansa Aviation Training, Frankfurt (Simulator-ID: FT49)

Simulator

Simulator Manufacturer	Thales, England
In Service Date	July 2004
Aircraft Model	D-A320-211 / A320-232
Registration (Master Aircraft)	D-AIQW
Product No.	MSN 1367
Simulator Host Computer	Industrial Dual Pentium PC
Motion System	Hydraulic, Synergistic 6 DOF, digital, COSMOS M2K
Control Loading	digital, hydraulic

Aircraft System

Engine Version	General Electric CFM56-5A1, 25000 lbs T/O thrust, 5AH/P27 IAE V2527-A5, 27000 lbs T/O thrust, SCN16
Primary Fit	
Secondary Fit	

Aerodynamic Data Revision

Aerospatiale D00218300 for CFM56-5A1 engine
Aerospatiale D00503200 for V2527-A5 engine

Auto Flight System

FMGS	S7PC13 Topflight Thales/Smiths (CFM), R1A (Software simulation) S7PI12 Topflight Thales/Smiths (IAE), R1A (Software simulation)
FCU	EM2 Std.3, Thales Avionics Sa (Orig. a/c box)
FAC	CR102, Thales Avionics Sa (Software simulation)

MCDU	Thales Avionics (Orig. a/c boxes)
Electronic Flight Control System	
ELAC	L97, Thales Avionics Sa (sEFCS Airbus Simulation Package)
SEC	L104, Thales Avionics Sa (Airbus Gray Box)
FCDC	57 (53), LITEF GmbH (Airbus Gray Box)
Electronic Instrument Sys. EFIS/ECAM	
DMC	V70, Thales Avionics Sa (Orig. a/c boxes)
FWC	H2-F7, Airbus France (Airbus simulation package)
TCAS II	7.1, Rockwell Collins Inc. (Software simulation)
ACARS	préFANS+ (CSB2.2B), Airbus France (ATSU, Orig. a/c box)
EGPWS	MK V, Honeywell International Inc. (Orig. a/c box)
GNADIRU	Litton Systems Inc. (Software Simulation)
MMR	hosts GPS, Thales Avionics Sa (Software simulation)
Standby Instrument System	Thales Avionics Sa (ISIS, Org. a/c unit)

Visual

Visual System Manufacturer	Rockwell Collins
Type of Image Generator	EP-1000CT
Type of Display	TTS Wide Mirror 200x40 deg FOV, ESCP 2000 Projectors
Illumination Levels	Day/Dusk/Night/Dawn
Number of Airport Scenes	more than 90

Instructor Station

Computer	Industrial Pentium PC
Display	2x15" LCD with capacitive touch screens mounted on IOS seat (FFIOS)
Printer/Plotter	Monochrome / colour Laser Printer
Number of Malfunctions	300
Automated Training Lessons	available on request for Base Check, Conversion, LOFT, Refresher
Landing Training	Individual definition of a generic airfield (RWY Characteristics: Length, Width, parallel RWY; RWY Lights: VLA, Appr. Lights)
Multiple Weather Simulation	Provides setting of individual weather conditions at different airports either by selection of a predefined weather scenario or by manual presetting
Unusual Attitude Recovery Training	available
Predictive Windshear Scenarios	various FAA windshear profiles available
Non-Predictive Windshear Scenarios	various windshear profiles for T/O and Landing available
TCAS	various scenarios with individual definition of intruder trajectory available
ATIS	available
Datalink (AOC/FANS)	various AOC scenarios available
FMS Flight Plan Copy / Load	customized AOC applications on request
Debrief Station/Video/Recording	copy of entered flight plans and manual load of predefined flight plans on request, automatic reload of entered flight plan after reposition to the same T/O position
Display Options	Video and Audio Recording, basic Display and 3D- animation metric and/or imperial

Qualifications

German LBA	JAA Level D, annually, according to JAR-STD 1A
EASA-ID	DE-1A-046

Simulator Fleet

At our locations in Frankfurt/Main, Berlin, Bremen, Munich, Essen, Vienna and Zurich about 40 full flight simulators reproducing more than 20 aircraft types are at your disposal for cockpit crew training.

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