



Full-Flight Simulator

AIRBUS A320-200 (FT65)

Location Lufthansa Aviation Training, Munich (Simulator-ID: FT65)

SIMULATOR	
Simulator Manufacturer	Thales, England
In Service Date	March 2011
Aircraft Model	A320-214 / A320-232
Registration (Master Aircraft)	n/a (Airbus Std. 1.7.0)
Product No.	n/a
Simulator Host Computer	Industrial Dual Pentium PC, (Thales - C2000X+, RACE 4+ Power PC boards (RISC)
Motion System	Thales - Hydraulic, Synergistic 6 DOF, digital, COSMOS eM2K
Control Loading	digital, hydraulic
AIRCRAFT SYSTEM	
Engine Version	
Primary fit	General Electric CFM56-5B4, 27000 lbs T/O thrust, 5BQ
Secondary fit	IAE V2527-A5, 27000 lbs T/O thrust, SCN19
Aerodynamic Data Revision	RQTG D00224300 for CFM56-5B4 engine RQTG D00222003 for V2527-A5 engine
Auto Flight System	
FMGS	S5C12 Topflight Thales/Smiths (CFM), R1A (Software simulation) S5I11 Topflight Thales/Smiths (IAE), R1A (Software simulation)
FCU	EM2 Std.3, Thales Avionics Sa (Orig. a/c box)
FAC	CR121, Thales Avionics Sa (Software simulation)

MCDU	Thales Avionics (Orig. a/c boxes)
Electronic Flight Control System	
ELAC	L93, Thales Avionics Sa (sEFCS)
SEC	112, Airbus France (sEFCS)
FCDC	57, Airbus France (sEFCS)
Electr. Instrument Sys. EFIS/ECAM	
DMC	EIS2 / S8, Thales Avionics
FWC	H2-F5, Airbus France (Airbus simulation package)
TCAS II	7.1, Allied Signal (Software simulation)
ACARS	préFANS+(CSB2.2B), Airbus France (ATSU, Orig. a/c box)
EGPWC	Sundstrand - Honeywell (Orig. a/c boxes)
VISUAL	
Visual System Manufacturer	Rockwell Collins
Type of Image Generator	EP-1000CT
Type of Display	TTS Wide Mirror 200x40 deg FOV, "eyevis" LED Projectors ESP-LHD 1000 single chip DLP
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 predefined or by manual presetting)
Unusual Attitude Recovery Training	available
Windshear / Microburst Scenarios	
Predicted 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)	various AOC scenarios available, customization on request
FMS Flight Plan Copy / Load	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

Debrief Station	Video & Audio Recording, Basic Display, 3D- animation
Display Options	metric and/or imperial
QUALIFICATIONS	
German LBA	JAA Level D, annually, according to JAR-FSTD A
EASA-ID	DE-1A-085