



# Airbus A321-100 (FT23)

## 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

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**Location** Lufthansa Aviation Training, Frankfurt (Simulator-ID: FT23)

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### Simulator

<b>Simulator Manufacturer</b>	CAE, Canada
<b>In Service Date</b>	July 1997
<b>Aircraft Model</b>	A321-100
<b>Registration (Master Aircraft)</b>	D-AIRN
<b>Product No.</b>	MSN 560
<b>Simulator Host Computer</b>	IBM P640
<b>Motion System</b>	Series 500, 6 DOF, digital
<b>Control Loading</b>	digital

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### Aircraft System

<b>Engine Version</b>	IAE V2530-A5, 30000 lbs T/O Thrust
<b>Aerodynamic Data Revision</b>	Aerospaiale D00204703
<b>Auto Flight System</b>	
<b>FMGC</b>	Thales Avionics/Smiths(Full GPS, Orig. a/c boxes) Level/Std.: Rel. 1A S7A112
<b>FCU</b>	M11, Thales Avionics Sa (Orig. a/c box)
<b>FAC</b>	CR102, Thales Avionics Sa (Software simulation)
<b>MCDU</b>	Thales Avionics/Smiths(Orig. a/c box)
<b>Electronic Flight Control System</b>	
<b>ELAC</b>	L93, Thales Avionics Sa (Orig. a/c boxes)
<b>SEC</b>	L123, Thales Avionics Sa (Orig. a/c boxes)
<b>FCDC</b>	L53, LITEF GmbH (Software simulation)

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## Electronic Instrument System

**DMC** V60, DIEHL AEROSPACE GmbH (Orig. a/c boxes)  
**FWC** H2F7, Airbus France (Orig. a/c boxes)

**TCAS II** 7.1, Honeywell (Software simulation)  
**ACARS** AMU MK I, Honeywell International Inc. (Orig. a/c box)  
**EGPWS** MK V, Honeywell International Inc. (Orig. a/c box)  
**BSCU** L4.9B Messier-Bugatti (Software simulation)

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## Visual

**Visual System Manufacturer** Rockwell Collins, England  
**Type of Image Generator** EP-1000CT  
**Type of Display** CAE 150x40 deg FOV mirror, "eyevis" LED Projectors ESP-LHD 1000 single chip DLP  
**Illumination Levels** Day/Dusk/Night  
**Number of Airport Scenes** more than 90

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## Instructor Station

**Display** X-Terminals, 2 CRTs with capacitive touch screen  
**Printer/Plotter** Monochrome 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  
**Unusual Attitude Recovery Training** available  
**Windshear / Microburst 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  
**FMS Flight Plan Copy / Load** customized AOC applications on request  
copy of entered flight plans and manual load of predefined flight plans on request  
**Debrief Station** Video and audio recording, stored as media file on USB drive  
**Display Options** metric and/or imperial

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## Options

**Electronic Flight Bag** Provision of Customer Options on request  
**EGPWC** Lufthansa Class II EFB  
NO RAAS available

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## Qualifications

**German LBA** JAA Level DG, annually, according to IQTG (ICAO Doc 9625 First Edition)  
**EASA-ID** Zero Flight Time (Approved for Lufthansa)  
DE-1A-018

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## 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.

Click here to find our full-flight simulator fleet: [Airbus](#), [Boeing](#), [Bombardier](#), [Embraer](#).

Click here to find our [other training devices](#).

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