



INTERNATIONAL SIMULATOR CONSULTING AND TECHNICAL SUPPORT SERVICES

KLM 767-300ER Full Flight Simulator Technical Description

Simulator General Description		
Operator/Sponsor	KLM Royal Dutch Airlines	
Location	Schipol International Airport/KLM Flight Training Center	
Manufacturer	CAE, Montreal, Canada	
Original In-Service Date	1995	
Current Status	Currently Certified and Operating in Training	

	Simulated Aircraft
Aircraft Manufacturer	Boeing 767-300ER Certified
Engine Manufacturer / Model	GE CF6-80C2-B6F Pratt & Whitney PW 4060
Tail # Still in Operator's Fleet	Yes # PH-BZX RT-RA

Qualification / Certification			
Authority:	Country:	Standard:	Classification:
RLD	Netherlands	JAR-STD 1A	Level D

Certification Event:	Certifying Authority:	Date:
Initial Qualification	RLD	June 1995
Last Recurrent Evaluation	RLD	December 2006
Next Recurrent Evaluation	RLD	December 2007

Aircraft Avionics		
Unit / System:	Manufacturer / Model:	
Flight Management	GE FMC Honeywell 4052500-962 (Re-Hosted) Op Program 3416HNP02C06 Op Code 751FBGC7SMIC	
Flight Management	P&W FMC Honeywell 78787878 (Re-Hosted) Op Program 3416HNP02C06 Op Code 3477BCG00556	
FMV Rehost Computer	IBM IntelliStation 6219 Utilizing Windows XP	
MCDU	Honeywell 4058650-913/931	
GPWS / EGPWS	EGPWS Honeywell 965-0976-003-222-212	
EICAS / ECAM	Software Emulation for EICAS Computer EICAS Diplays Collins 622-7999-003	
EFIS Symbol Generator	Simulated EFIS Symbol Generator (Aircraft PFD'S)	

	Flight Compartment
Primary Flight Instrument Type	Electronic

Engine Instrument Type	Electronic
Unit / System:	Manufacturer / Model:
ADI EADI PFD	EADI Collins 622-7998-003
HSI EHSI NFD	EHSI Collins 622-7999-003
CDU MCDU	MCDU Honeywell 964-0443-003
INS GPS EGPWS	GPS Yes / EGPWS Yes 9650976-003-216
Autopilot	Collins MCP 622-8780-102
TCAS	TCAS II Version 7.0 ATC/TCAS Panel # G6990-48R
IVSI	LCD 4039893-902
RDDMI	96553-10-5-607
Weather Radar	Collins Control Panel 622-5130-123
ACARS	CPU 2231500-800A
ATIS	Yes
Auto Throttles Installed	Yes
Heads Up Display	None
Simulator Upgrades	 Major 2004 EFIS/EICAS Pegassus FMC EGPWS MMR (Multi Mode Receiver for GPS)

Motion System		
Manufacturer / Model	CAE 800 series	
Type (Hyd/Elec)	Hydraulic	
Motion System Drive	Digital/DMC Based/CAE DN1	
Number of Axis	6 Axis	
Jack Stroke Length	80 inch Stroke	
HPU Pump(s)	 2 Motion Pumps 1 Control Loading Pump 1 Cooling Pump 	

Control Loading System			
	Primary Controls:		
Manufacturer / Model	CAE / Digital		
Type (Hyd/Elec)	Hydraulic		
Control System Drive	Digital/DMC Based/CAE DN1		
No. of Primary Channels	9		
Loaded Primary Controls:	Installed:		
Capt Aileron (Wheel)	Yes		
Capt Elevator (Column)	Yes		
Capt Rudder (Pedals)	Yes		
FO Aileron (Wheel)	Yes		

FO Elevator (Column)	Yes	
FO Rudder (Pedals)	Yes	
Nosewheel (Tiller)	Yes	
Toe Brake (L&R)	Yes	
Secondary Controls		
Loaded Secondary Controls:	Installed:	
Stab Trim	Yes (Elec)	
Speed Brake	Yes (Elec)	

Visual System - Image Generator		
IG Manufacturer / Model	CAE Maxvue Enhanced B	
Number of Channels	3 Channels	
Y2K Compliant	Yes	
Visual System - Display System		
Display Type	WIDE Mirror	
Field of View	180 Degrees x 40 Degrees FOV	
Monitor Manufacturer / Model	EIS/Barco 5044	
Window Display Configuration	Cross Cockpit	

AutoCal	Yes
Visual Scenes	 5 Custom Amsterdam Brussels Dusseldorf Heathrow Rotterdam

Host Computer / Linkage			
Manufacturer / Model	IBM 595 RISC		
Operating System / Version	AIX 3.2		
Y2K Compliant	Yes		
Upgrades	Major Avionics update in 2004		
Linkage (I/O) Interface	CAE Super C w DMC based Ethernet communications		
Options	CAE Integrated Diagnostic System (IDS)		

Instructor Station			
Manufacturer / Model	CAE X-Station		
IOS Display	Dual TouchScreen/Color with 2 EL Control Panels		
Computer	IBM 150 Workstation		
Y2K Compliant	Yes		
Remote Control Unit	Yes		

Independent Crew Training	Not Applicable
Features	• 500 Malfunctions

Aural Cue System		
Manufacturer / Model	CAE (No system Model No.)	
Type / Description	Digital	

Simulated Special Effects				
Feature:	Installed:			
FAA / JAA Approved Windshear Profile(s)	Yes			
Microburst Model(s)	Yes			
Simulated Oxygen System	Yes			
Smoke Generation System	Yes			
CAT I, II, III	CAT 1, CAT 2, CAT III DH = 0 ft.			
ETOPS	Yes			

Data Package (Installed and Certified in the Simulator)

Category:	Documentation:	Revision:
Aerodynamic Model	D613T305	С
Flight Controls Model	D613T125-1101	J

Mass Properties Model	D613T120-1101	G
Engine Model	D611T308 (GE)	Е
Engine Model	D611T314 (P&W)	A

Documentation					
Sour	ce:	Amounts Present (Selection is Bold and Underlined)			
Equipment Manufac	Equipment Manufacturer (Boeing & CAE)				
0%	25%	50%	75%	<u>100%</u>	
Vendor (Computer, Visual, Peripherals, etc.)					
0%	25%	50%	75%	<u>100%</u>	
Operator (Airline, etc)					
0%	<u>25%</u>	50%	75%	100%	

ource:		Amounts Present (Selection is Bold a	and Underlined)	
		` i			
Aircraft Parts					
0%	25%	50%	75%	100%	
simulator Manufact	urer			ı	
0%	25%	50%	75%	100%	

0%	25%	50%	75%	100%
Vendor				
0%	25%	50%	75%	100%