

INTERNATIONAL SIMULATOR CONSULTING AND TECHNICAL SUPPORT SERVICES

KLM 737-300 (EFIS) Full Flight Simulator Technical Description

Simulator General Description		
Operator/Sponsor	KLM	
Location	Schipol Airport, Amsterdam, Netherlands	
Manufacturer	CAE, Montreal, Canada	
Original In-Service Date	1987	
Current Status	Currently Certified and Operating in Training	

	Simulated Aircraft
Aircraft Manufacturer	Boeing 737-300 (EFIS)
Engine Manufacturer / Model	GE CFM-3B1
Tail # Still in Operator's Fleet	No

Qualification / Certification				
	Authority:	Country:	Standard:	Classification:
RLD		Netherlands	JAR-STD 1A	Level CG
	Certification Event: Certifying Authority: Date:		Date:	

Initial Qualification	RLD / Netherlands	July 1987
Last Recurrent Evaluation	RLD / Netherlands	January 2007
Next Recurrent Evaluation	RLD / Netherlands	January 2008

Aircraft Avionics		
Unit / System:	Manufacturer / Model:	
Flight Management	Honeywell 171497	
MCDU	167550-01-01X	
GPWS / EGPWS	GPWS	
EICAS / ECAM	Analog Engine Instruments	
EFIS / Analog Flight Instruments	EFIS	

	Flight Compartment
Primary Flight Instrument Type	Electronic
Engine Instrument Type	Analog
Unit / System:	Manufacturer / Model:
e me / System.	ivialidiacturei / iviodei.
ADI EADI PFD	EADI Collins 622-7998-001

CDU MCDU	MCDU 167550-01-01X
INS GPS EGPWS	GPWS
Autopilot	Honeywell 4051601-912
TCAS	No
Auto Throttles Installed	Yes
Heads Up Display	None
Weather Radar	None

Motion System		
Manufacturer / Model	CAE 750 Series	
Type (Hyd/Elec)	Hydraulic	
Motion System Drive	Digital	
Number of Axis	6 Axis	
Jack Stroke Length	75 inch Stroke	
HPU Pump(s)	 3 Motion Pumps 1 Control Loading Pump 1 Cooling Pump 	

Control Loading System	
	Primary Controls:
Manufacturer / Model	CAE / Digital DMC based DN1 Cabinet

Type (Hyd/Elec)	Hydraulic
Control System Drive	DN1 based Digital
No. of Primary Channels	7
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
	Secondary Controls
Loaded Secondary Controls:	Installed:
Stab Trim	Yes (Hyd)
Speed Brake	Yes (Hyd)
Toe Brake	Yes (Hyd)
Auto Throttles	Yes (Hyd)

Visual System - Image Generator			
IG Manufacturer / Model	Link-Miles Image II		
Number of Channels	4 Channels		
Y2K Compliant	Yes		
Visua	Visual System - Display System		
Display Type	Optical Window Mirror Box/CRT		
Number of Windows	6 Window (Capt side switchable with FO side)		
Field of View	180 degree x 40 degree FOV		
Monitor Manufacturer / Model	CRT		
Monitor Display Type / Size	Calligraphic		
Window Display Configuration	Two Window Boxes Per Side, Plus Another Selectable		

Host Computer / Linkage		
Manufacturer / Model	Encore MultiSel (2 systems which are selectable)	
Operating System / Version	MPX 3.2	
Y2K Compliant	Yes	
Linkage (I/O) Interface	CAE DACBUS and C+ I/O	

Instructor Station			
Manufacturer / Model	CAE Vistagraphic		
IOS Display	Dual Screen / Color		
Computer	Concurrent		
Y2K Compliant	Yes		
Remote Control Unit	Yes, 1 PCU, 2 EL Touchpanels		
Independent Crew Training	No		
Features	500 Malfunctions		

Aural Cue System		
Manufacturer / Model	CAE Manufactured	
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

Data Package (Installed and Certified in the Simulator)			
Category:	Documentation:		
Aerodynamic Model	D6-37908 Rev E		
Flight Controls Model	D6-37908 Rev #		
Engine Model	D6-47461 Rev M		

Documentation				
Sour	ce:	Amounts Present (Selection is Bold and Underlined)		
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%	25%	50%	75%	100%

Spare Parts		
Source:	Amounts Present (Selection is Bold and Underlined)	

Aircraft Parts				
<u>0%</u>	25%	50%	75%	100%
Simulator Manufact	urer			
0%	25%	50%	75%	100%
Visual Manufacture	r			
0%	25%	50%	75%	<u>100%</u>
Vendor				
0%	25%	50%	75%	100%