Zhuhai Xiang Yi Aviation Technology Co., Ltd.

Embraer EMB145FFS

Technical information

Content:

Ÿ General Information

SIMULATOR: EMB145FFS

Manufacture: CAE Inc. Montreal, Canada
Computer: IBM PC X235
Certification: Level D,   Semi-Annually qualified by CAAC
In Service Date: 2005.6
Location: Zhuhai, Guangdong, P.R. of China

VISUAL:
Manufacturer: CAE Inc. Montreal, Canada
Computer: Three 19-Inch Rackmount Industrial PCs
Type of Image Generator: TROPOS 300
Type of Display: BARCO 5064   Field of View: 40°×180°
Illumination Levels: Day/Dusk/Dawn/Night

INSTRUCTOR STATION:
Manufacturer: CAE Inc. Montreal, Canada
Computer: 2 NCD Color HMX X-Terminal Computer
Type: 2x15" color touch-sensitive LCDs and additional pushbuttons

MOTION AND CONTROL LOADING:
Manufacturer: CAE Inc. Montreal, Canada
Type: CAE 600 Series with Digital Motion and Control Loading, Motion 6 DOF

SPECIAL TRAINING AIDS:
TCAS: Available
ACARS: Available
GPS: Available
ATIS: Available
EGPWS   Available
Windshear training: Available
Number of Malfunctions: More than 220
Automated Lessons for: Transition training
                                Base Check
                                Line Oriented Flight Training (LOFT)
                                Recurrent
                                Customer specified lessons available on request

DATA PACKAGES:

Aerodynamic Data Revision:	EMB Docment 145-AD-304 Vol 6 Aero Data Bank Version 3L
Engine Model and Data Revision:	Allison Engines AE 3007A1
	CAE Performance Model
	FADEC version 7.6
Flight Controls Data Revision:	EMB Docment 145-AD-304 Vol 4
	EMB Docment 145-AD-304 Vol 6 Hinge Moment Data Version 3E
Flight Management System:	Dual Universal 1K
	Single Honeywell Primus NZ-2000

SIMULATATED AIRPLANES:

Airplane Model:	EMB-145
MTOW:	22,000KGS
MLW:	193,00KGS
MZFW:	17,900KGS
Attitude Callouts:	500,100,50,40,30,20,10,Minimums
	Different Callout types are available on request
Cockpit Layout:	EMBRAER EMB-145 tail number 701

AIRCRAFT TYPE / ENGINE:

Engine Manufacturer:	Allison Engines
Supplied Combinations:	EMB-145 with AE3007A1

Ÿ   Visual Databases

Following airports are selected from the instructor station for training:

Real airports

Chiang Kai Shek Intl	(RCTP)	Narita/Tokyo	(RJAA)
Kansai Intl	(RJBB)	Fukuoka	(RJFF)
Tokyo Intl	(RJTT)	Seoul/Incheon	(RKSI)
Manila/Ninoy Aquino Intl	(RPLL)	Hong Kong Intl	(VHHH)
Macau	(VMCC)	Bangkok Intl	(VTBD)
Soekarno-Hatta Intl	(WIII)	Singapore/Changi (WSSS)	(WSSS)
Beijing/Capital	(ZBAA)	Guangzhou/Baiyun	(ZGGG)
Guilin	(ZGKL)	Zhuhai/Sanzao	(ZGSD)
Shenzhen/Huangtian	(ZLSZ)	Xi'an/Xianyang	(ZLXY)
Kunming/Wujiaba	(ZPPP)	Gaoqi/Xiamen	(ZSAM)
Hangzhou/jianqiao	(ZSPD)	Shanghai/Hongqiao	(ZSSS)
Chongqing	(ZUCK)	Guanghan	(ZULS)
Chengdu	(ZUUU)	Urumqi/Diwopu	(ZWWW)

Generic airports

Generic airport is reconfigurable, allowing the instructor to create a variety of training environments through the simple manipulation of database elements, such as mountains, cities, terminals, PAPI/VASI…

Note:

Most of the real airports are aligned properly for training. However, Xiang Yi does not automatically update those airport databases to reflect changes to the airport and its environment that may affect the certifiability of a particular database.

Most airports, which are not listed above, can be made available as a generic airport.

If the customer requests "Real Airports" not yet available, Xiang Yi Flight Training is willing to implement each other database for which the customer will be charged additionally. However, this implementation will take a certain time.

For more details please contact Xiang Yi Flight Training's responsible Engineering Department.

Ÿ   Navigation Database

The present used navigation database is base on the training for China Southern Airlines pilots.

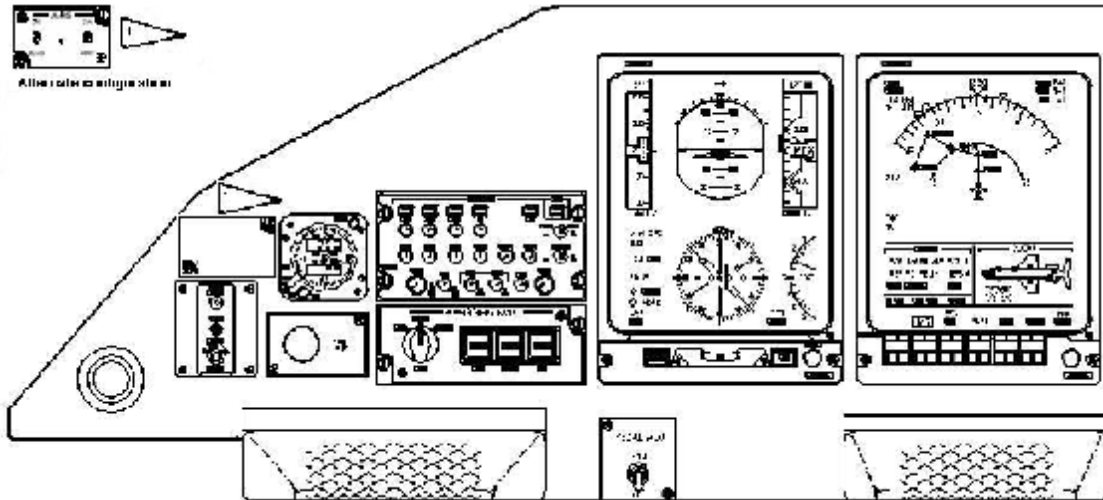On request it might be possible to use different databases, if they are compatible to our system.

However, the use of different navigation databases has to be agreed with Xiang Yi Flight Training's engineering department in advance.

Ÿ Instructor Station Layout
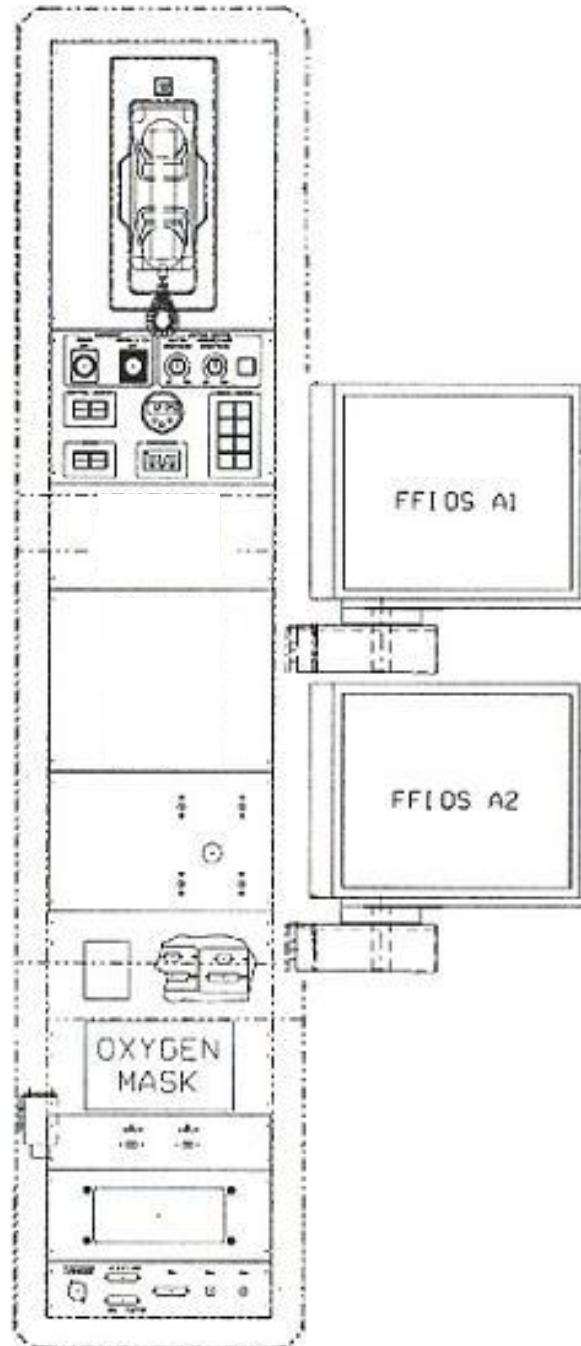
Ÿ   Cockpit Layout
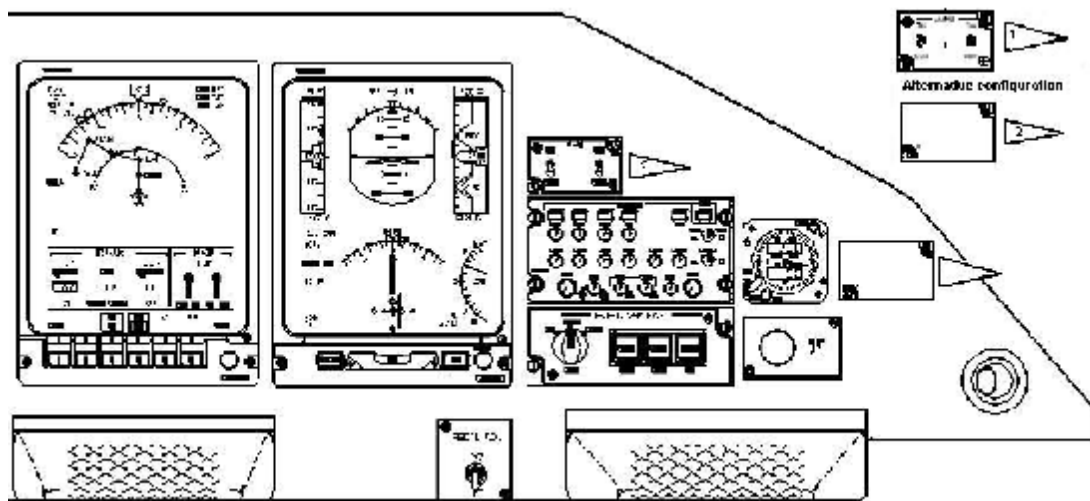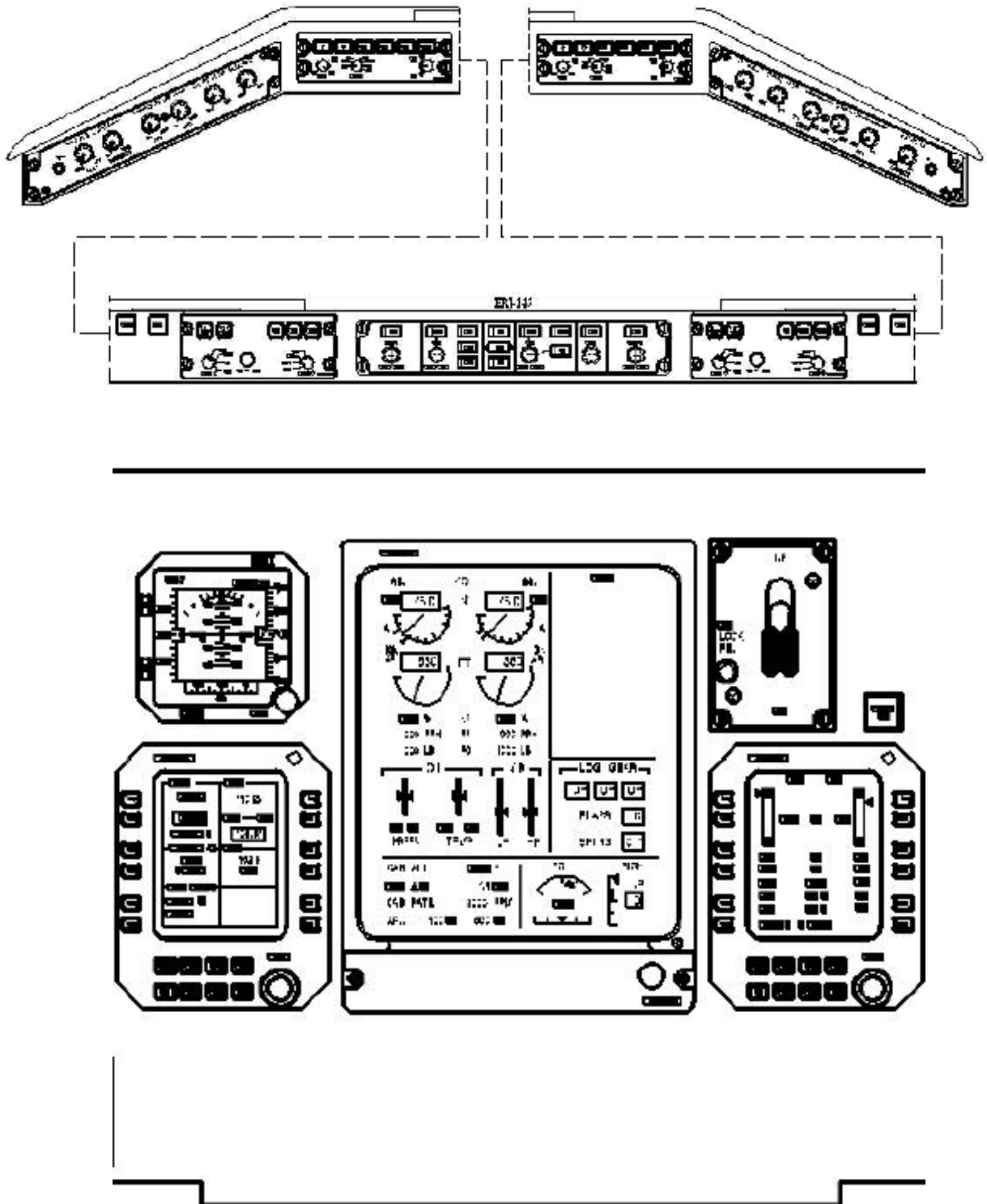
Captain's Panel

Ÿ   Cockpit Layout   cont'd

First Officer's Panel
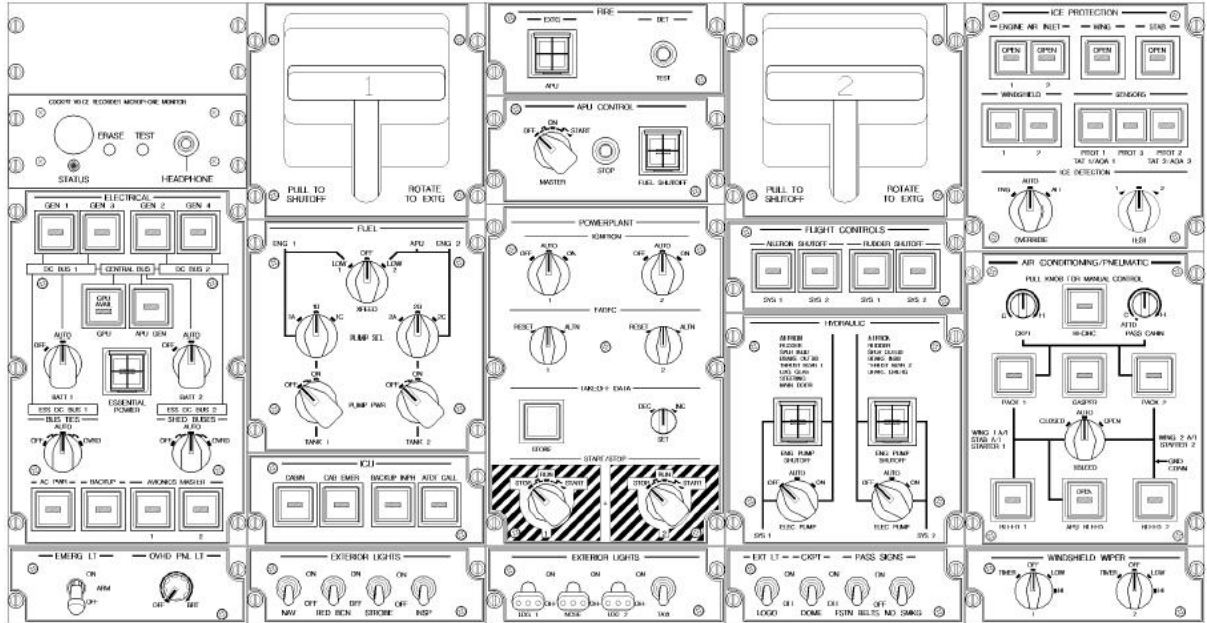

Alternative configuration

Ÿ Cockpit Layout   cont'd

Pilot's Lightshield and Center Panel

Ÿ   Cockpit Layout   cont'd

Overhead Panel

Ÿ   Cockpit Layout   cont'd

Pedestal Panel

Alternate configuration

Alternate configuration

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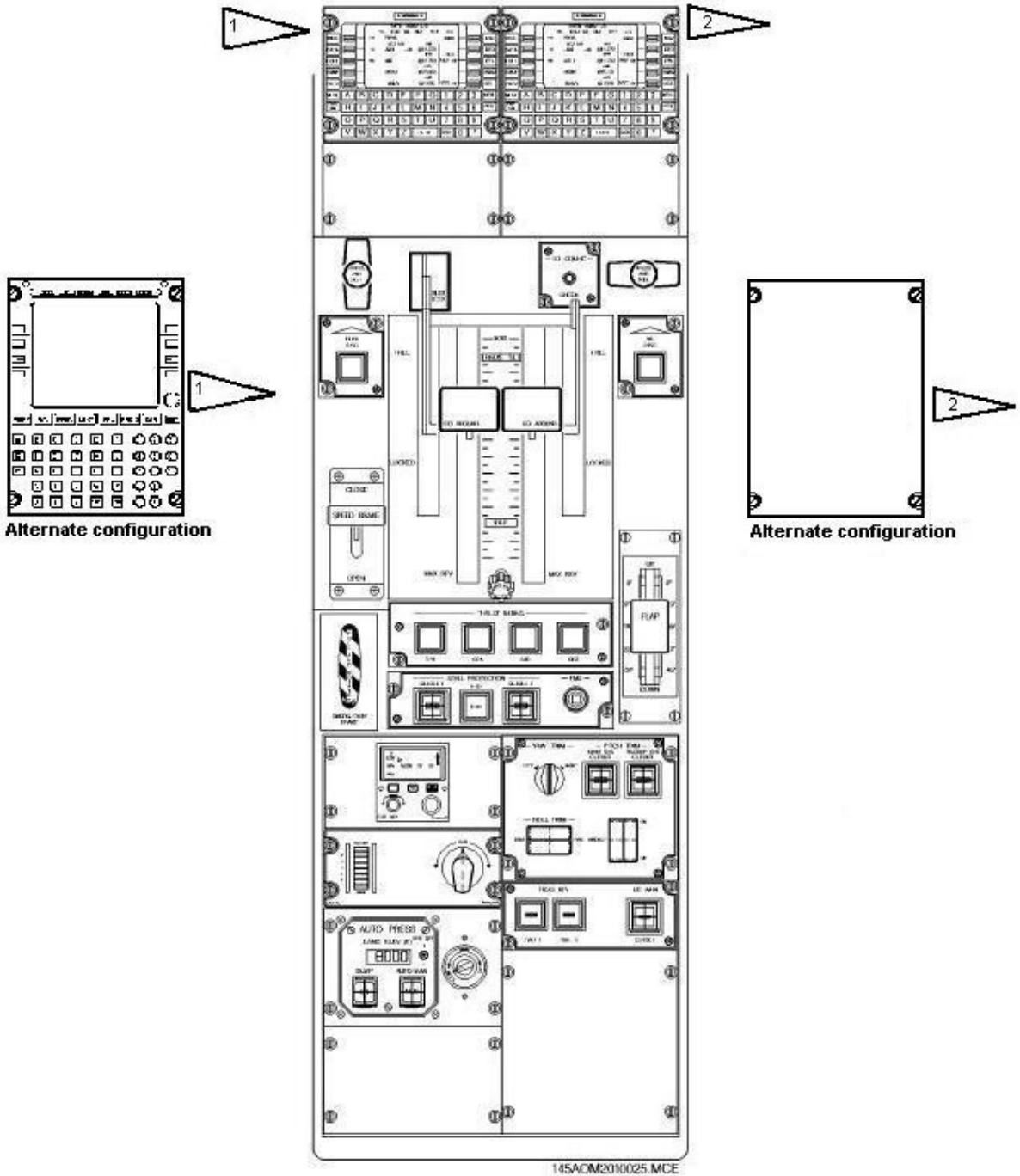
Ÿ   Aircraft Avionic

Original Aircraft Box	ACARS
	DU
	RMU
	AWU
	IC-600
	FMC/CDU NZ2000 (Alternate Config)
	CDU (Alternate Config)
	NAV Computer
	NAV CDU
	EGPWS
Simulated Aircraft Box	HSCU
	AHRS(900 and 800)
	ADC
	CMC
	SPC
	DAU
	FEDAC

Avionic Options

Some of the above listed LRU's offer options which can be activated according to customer's individual requirements. The present avionic standard is based on China Southern's aircraft and hence might deviate from customer's avionic standard (eg. Automatic call-outs, indication of imperial or metric-units etc, …). Xiang Yi Flight Training is able to activate several of these options to fulfill customer's individual requirements.

Ÿ Technical Responsibility

For additional information on all technical simulator aspects and for discussion of your specific customer setup please contact the responsible engineering department.

Zhuhai Xiang Yi Aviation Technology Co., Ltd.
Simulator Maintenance Engineering Department
Engineering Office
163 Shihua Xi RD.,
Zhuhai, Guangdong
P. R. of China
519015

Contact:

Technical Support Engineer
Simulator Maintenance Engineering Department
Tel: 86-13928025707
Fax:86-756-3236670
E-mail: simed@zhftc.com