



The Leader in Aerospace Training Solutions

www.kandh.com.tw



CONTENTS

AT-11003	Navigation & Communication Trainer.....	1
AT-11007	Avionics Trainer	2
AT-12001	Cockpit Instrumentation Trainer	3
AT-13101	Mini Turbine Engine Trainer	4
AT-F1003	Diamond DA40 Flight Simulator System with Mock-up Fuselage	5
AT-F1005	Airbus 320 Flight Simulator and Visual System	6
AT-S01	Boeing B737-800 Maintenance Simulation.....	7



AT-11003

Navigation & Communication Trainer



*The pictures above are for reference only.
The real products purchased should be considered as final.

The Navigation and Communication Trainer is a basic functional simulation of a standard aircraft avionics system. Besides that, most components in the trainer will be fully functional aircraft components. It is intended for use in avionics/aircraft electronics curriculum and is aimed at providing students with hands-on experience in aircraft avionics.

●Features

1. It is designed to provide practical, hands-on instruction in aircraft electronics and avionics.
2. The Trainer is equipped with testing wireless signal.
3. The Trainer comes with Fault Simulation Panel for conduct of training on troubleshooting. Panel allows the simulation of faults for enhanced learning.

●Specification

The Navigation & Communication Trainer will consist of the following :

1. Intercom device
2. Audio control panel
3. Standard transceiver of navigation and communication system
 - Communication transceiver
 - Navigation(VOR/LOC) receiver
 - Glideslope receiver
4. ILS Indicator
5. VOR Indicator
6. Antenna
 - VOR/Glideslope
 - Communication
 - Marker Beacon
7. Audio output (speaker or headphone)
8. Intercommunication system between pilot and co-pilot
9. Provide the test and measurement equipment
10. Fault simulator panel
11. Power : AC 90-230V, 50/60Hz

●Accessories

1. Handheld ramp tester (include antenna and power)
2. Headphone
3. Handheld microphone
4. Operation manual

●Option

AT-11051 Portable VHF Communication Station

- No intercom and no audio panel
- The communication will be transmitted directly through various position





AT-11007 Avionics Trainer



AT-11007A



AT-11007B

***Choose either of the two**

**The pictures above are for reference only.*

The real products purchased should be considered as final.

The Avionics Trainer is available for performing complete functional simulation of a standard aircraft avionics system. Besides that, can be used for providing hands-on training for the students to attain a good understanding of the operating principles of various instruments.

●Features

1. Includes a complete, real and modern aircraft cockpit instruments.
2. Student could experience the exact operation of aircraft cockpit instruments via the external ramp testers.
3. The Avionics Trainer comes with Fault Simulation Panel for conduct of training on troubleshooting. Panel allows the simulation of faults for enhanced learning

●Specification

The Avionics Trainer will consist of the following :

1. Intercom device
2. Audio control panel
3. Standard transceiver of navigation and communication system
 - Communication transceiver
 - Navigation(VOR/LOC) receiver
 - Glideslope receiver
4. GPS Navigation System
5. Automatic Direction Finder, ADF
6. Distance Measuring Equipment, DME
7. Transponder
8. ILS Indicator
9. VOR/GPS Indicator
10. ADF Indicator
11. Antenna
 - VOR/Glideslope
 - Communication
 - Marker Beacon
 - GPS
 - ADF
 - DME
 - Transponder
12. Map Display

13. Audio output (speaker or headphone)
14. Intercommunication system between pilot and co-pilot
15. Provide the test and measurement equipment
16. Fault simulator panel
17. Power : AC 90-230V, 50/60Hz

●Accessories

1. Handheld ramp tester (include antenna and power)
2. Headphone
3. Handheld microphone
4. Operation manual

●Option

AT-11051 Portable VHF Communication Station

- No intercom and no audio panel
- The communication will be transmitted directly through various position





AT-12001 Cockpit Instrumentation Trainer

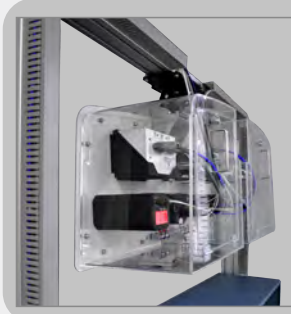


*The pictures above are for reference only.
The real products purchased should be considered as final.

● Features

The trainer provides hands-on training for the students to get a good understanding of the operating principles of probes, sensors, pressure and electronic display system.

The Cockpit Instrumentation Trainer which includes the fault simulator, for allowing the instructor to insert a selected fault or simulate faults, helps students to identify the fault and troubleshoot the problem.



The transparent rear cover of the control panel enables users to observe the wiring and tube connection of the flight instruments.

● Specification

The cockpit instrumentation trainer comprises the following units :

◆ Flight control panel

1. Electronic Flight Instrumentation Display, EFIS
2. Engine Monitor System, EMS
3. Three degrees of freedom instrument panel by the yoke

- Pitch movement
- Roll movement
- Yaw movement

4. Flight instruments

- Turn coordinator (for electrical drive)
- Directional gyro (for electrical drive)
- Attitude indicator / Artificial horizon
- Airspeed indicator
- Altimeter
- Vertical speed indicator

5. Protection of power distribution (circuit breakers)

◆ Pitot-Static System

1. Digital pressure indicator
2. Control valve
3. Pitot tube
4. Static port

◆ Engine components

1. Actual mode

- Cylinder Head Temperature (CHT) thermocouple
- Exhaust Gas Temperature (EGT) thermocouple
- Outside Air Temperature (OAT) sensor
- Fuel pressure sensor
- Oil pressure sensor
- Oil temperature sensor
- Fuel quantity sensor

2. Simulator mode

3. Throttle control assembly
4. Warning light
5. Warning sound

◆ Fault simulator panel

◆ Power : AC 110V or 220V, 50Hz / 60Hz

● Accessories

1. Operation manual
2. Heat gun (AC 110V or 220V)
3. Pressure tester 0—100PSI



AT-13101

Mini Turbine Engine Trainer



*The pictures above are for reference only.
The real products purchased should be considered as final.

AT-13101 Mini Turbine Engine Trainer, with more than 12KG of thrust, was developed and manufactured in Taiwan. This Turbine Engine trainer is controlled by Electronic Control Unit (ECU). It can control the starting process, ignition, RPM and fuel flow. ECU prevents damages resulted from improper shutdown. Automatic ignition system ensures stability of starting up by linking DC motor to internal compressor.

● Features

AT-13101 Mini Turbine Engine Trainer comes with manifold sensor such as temperatures, pressure, the thrust produced, RPM and fuel flow. With those sensors, multiple surveillance and data analysis for Turbine engine will be done effectively. All the properties mentioned above could provide stable control platform for multiple data analysis and measurement; it is suitable for aviation training college and related engineering field to develop applications.

● Specification

1. 15 inch panel PC
2. Controller board
3. Master power switch on with a safety key
4. Turbine ignition switch is protected by switch guard, to prevent unintentional activation or emergency shutdown
5. Throttle control : Direct Current (DC) voltage control
6. LCD display
7. Fuel Tank : 50 Liters
8. Turbine design
 - Maximum thrust : 12 Kg/120000RPM
 - RPM : 3500 – 120000 RPM
 - Fuel : Jet-A, kerosene or diesel (must be mixed with 5% synthetic turbine oil)
 - Length : 35 cm
 - Diameter : 11 cm
9. ECU
 - Automatically control fuel pump, regulate the fuel flow and safety limit
 - Monitor EGT, for starting and shut down
 - Monitor DC power supply : regulated DC power supply for starter and ignitor
 - ECU will monitor startup, run and shutdown for safely operation

10. Sensors for Turbine engine trainer

- Intake air temperature sensor
- Intake air pressure
- After diffuser temperature sensor
- After diffuser Pressure sensor
- Turbine inlet temperature sensor
- Turbine inlet pressure sensor
- Turbine outlet temperature sensor
- Turbine outlet pressure sensor
- Nozzle temperature sensor
- Nozzle pressure sensor
- Thrust measure
- Fuel consumption
- Intake air volume
- RPM

11. Power : AC 110V 60Hz / 230V 50 Hz

12. Dimension : 85.5cm (W) X 70 cm (D) X 149 cm (H)

13. Weight : 40 Kg

14. Practical lessons

- Turbine starting procedure
- Turbine's temperature and pressure measurement, sensor familiarization
- Comparison between Thrust and RPM
- Comparison between Fuel consumption and RPM
- Comparison between thrust and Fuel grade
- Comparison between turbine's intake air temperature
- Turbine steady and dynamic performance analysis
- Comparison between fuel mixture and RPM
- Thermodynamic and waste gas studies

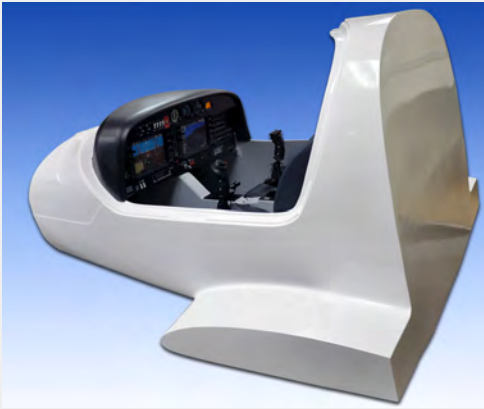
● Accessories

1. Operation manual
2. Fuel pipe, for fuel top up
3. Ear muffler



AT-F1003

Diamond DA40 Flight Simulator System with Mock-up Fuselage



The complete flight simulator system provides the functional simulation of single piston engine propeller aircraft with all details.

It is reproduced according to the exact dimensions and layout of the original instrument panel which can be found in the Diamond Da40 aircraft.

● Features

The mock-up aircraft fuselage is a replica or actual fuselage of the Diamond DA40 single piston engine propeller aircraft with a scale of 1:1.

Complete flight simulator instrument panel of Glass Cockpit system with configurable Primary Flight Display (PFD), Multi Function Display (MFD) or Navigation Display (ND).

● Specifications

Instrument panel of the Diamond DA40 flight simulator system comprises the following units:

1. Flight instruments
 - Altimeter, ALT
 - Airspeed indicator, ASI
 - Attitude indicator, AI
 - Two units of simulated of G1000 glass cockpit.
 - Primary flight display (PFD)
 - Multi-Function display (MFD)
 - Audio panel
 - Autopilot
 - Digital clock
2. Flight control
 - Two units of control stick
 - Throttle control assembly
 - Rudder pedals
 - Trim wheel
 - Flap control switch
3. Engine master switch
4. Electrical master key switch

5. Avionics master switch
6. Light regulation
7. Dummy circuit breakers
8. Seats for pilot trainee and instructor

The Visual System that comprises 3pcs of TVs display and the adjustable display stand will form the flight simulator.

1. Support 3pcs of LED TV 42 inch above (AC 110 or 220V).
2. Quality materials used.
3. 3pcs TVs displays are mounted on to the supporting structure at desired height and position for optimum panoramic simulation viewing.



● Accessories

1. Operation manual
2. Microsoft flight simulator CD
3. 1-set computer
4. Visual system
5. Speaker



AT-F1005

Airbus 320 Flight Simulator and Visual System



* The pictures above are for reference only.
The real products purchased should be considered as final.

The A320 Flight Simulator, which is valuable in teaching pilots for conducting simulation, is realistic replica of Airbus 320 cockpit. The system aims to provide students with concepts in various avionics & aircraft instrumentation.

External Instructor station will allow the instructor to monitor, control and simulate faults to the operating flight simulator, display the exact flying operation.

● Features

The simulator is to be used for pilots' familiarization and training on A320. It teaches students the relative effect of aircraft controls at different stages of flight (take off, level and landing), aircraft instruments (PFD, ND and EICAS), communication and navigation systems (VOR, ILS Systems and TCAS/ATC).

● Specifications

The simulator system includes the following units:

- | | | |
|---|---|--|
| 1. Control panels and instrument <ul style="list-style-type: none">• Main instrument panel• Glare shield• Pedestal• Overhead | 2. Flight controls <ul style="list-style-type: none">• Side stick• Throttle sets• Rudders pedal | 4. Software |
| | 3. Computer system | 5. A320 with pilot seats |
| | | 6. Visual system |
| | | 7. Instructor station (with monitor) |
| | | 8. A320 Failure Package
(include troubleshooting and monitor) |



Main instrument panel



Glare shield



● Accessories

1. Operation manual
2. 3-set computer
3. Visual Display



AT-S01

Boeing B737-800 Maintenance Simulation



*The pictures above are for reference only.
The real products purchased should be considered as final.

The 26 simulation for modules provide a step-by-step approach for users to learn from Aircraft Walk Around to the internal cockpit control in every aspect of B737-800. Moreover, the simulation content focuses on the introduction to the position of every control panel and component parts in terms of the operation method and control theory. It is an ideal solution for those who intend to enter the world of aviation. However, it's extremely useful not only for training in school but also for self-studying.

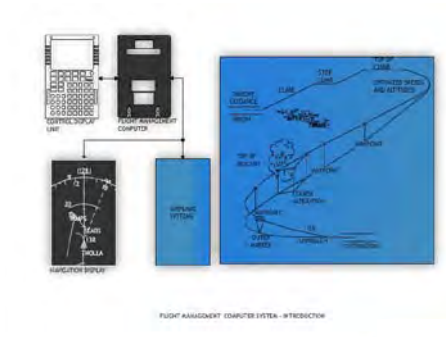
The software includes Mechanical Engineering (ME) and Avionics (AV), the module contents are as followed:



1. Aircraft Walk Around



2. Aircraft General



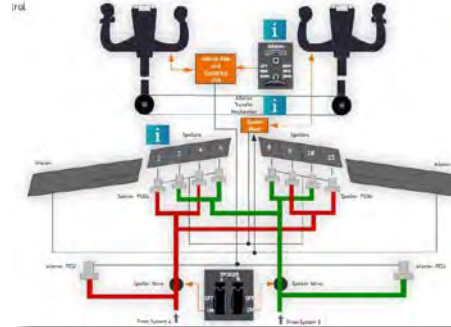
3. Flight Management Introduction



4. Flight Instruments



5. Flight Director



6. Flight Controls



7. AC Communications



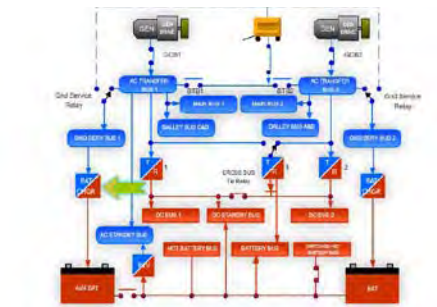
8. Navigation



9. Autopilot



10. Auto Throttles



11. Electrical



12. Fuel

13. Air Conditioning

14. Lighting

15. Oxygen

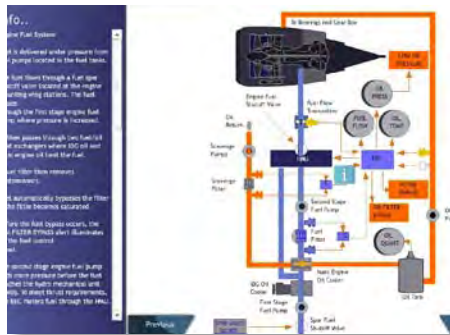
16. Pressurization

17. Hydraulics

18. Landing Gear-Brake

19. Pneumatics

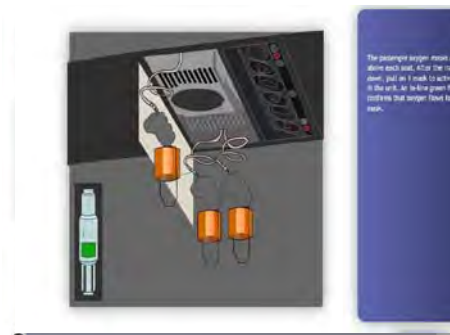
20. Propulsion



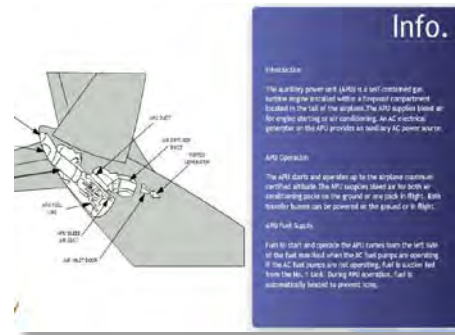
21. Engines



22. Ice-Rain Protection



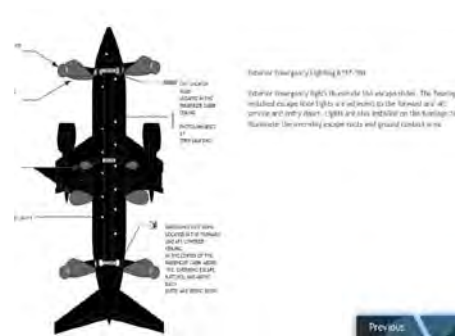
23. Fire Protection



24. APU-Assist Power Unit



25. Warning System



26. Emergency Equipments-General

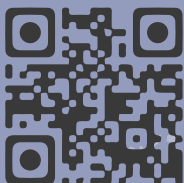
● System requirement

1. PC : 1GHz or faster 32-bit (x86) or 64-bit (x64) processor,
1GB RAM, 300MB more free disk space
2. OS : Windows 7 / 8 / 10

KNOWLEDGE AND HOPE



K&H MFG. CO., LTD.



E-mail: education@kandh.com.tw
Tel: 886-2-2286-0700(Rep.) 886-2-2286-7786
Fax: 886-2-2287-3066, 886-2-2287-9704
5F., No. 8, Sec. 4, Ziqiang Rd., Sanchong Dist,
New Taipei City 241, Taiwan (R.O.C.)
<http://www.kandh.com.tw>



K&H reserves the right to make changes without notice

Airbus 320 Flight Simulator and Visual System

AT-F1005



* The pictures above are for reference only.
The real products purchased should be considered as final.

The A320 Flight Simulator, which is valuable in teaching pilots for conducting simulation, is realistic replica of Airbus 320 cockpit. The system aims to provide students with concepts in various avionics & aircraft instrumentation.

External Instructor station will allow the instructor to monitor, control and simulate faults to the operating flight simulator, display the exact flying operation.

● Features

The simulator is to be used for pilots' familiarization and training on A320. It teaches students the relative effect of aircraft controls at different stages of flight (take off, level and landing), aircraft instruments (PFD, ND and EICAS), communication and navigation systems (VOR, ILS Systems and TCAS/ATC).

● Specifications

The simulator system includes the following units:

- | | | |
|---|---|--|
| 1. Control panels and instrument <ul style="list-style-type: none">• Main instrument panel• Glare shield• Pedestal• Overhead | 2. Flight controls <ul style="list-style-type: none">• Side stick• Throttle sets• Rudders pedal | 4. Software |
| | 3. Computer system | 5. A320 with pilot seats |
| | | 6. Visual system |
| | | 7. Instructor station (with monitor) |
| | | 8. A320 Failure Package
(include troubleshooting and monitor) |



Main instrument panel



Glare shield



Pedestal



Overhead

● Accessories

1. Operation manual
2. 3-set computer
3. Visual Display



K&H MFG. CO., LTD.

5F., No. 8, Sec. 4, Ziqiang Rd., Sanchong Dist, New Taipei City 241, Taiwan (R.O.C.)
<http://www.kandh.com.tw> E-Mail: education@kandh.com.tw
Tel : 886-2-2286-0700 (Rep.) 886-2-2286-7786
Fax : 886-2-2287-3066, 886-2-2287-9704



K&H reserves the right to make changes without notice

Avionics Trainer

AT-11007



AT-11007A



AT-11007B

***Choose either of the two**

**The pictures above are for reference only.*

The real products purchased should be considered as final.

The Avionics Trainer is available for performing complete functional simulation of a standard aircraft avionics system. Besides that, can be used for providing hands-on training for the students to attain a good understanding of the operating principles of various instruments.

●Features

1. Includes a complete, real and modern aircraft cockpit instruments.
2. Student could experience the exact operation of aircraft cockpit instruments via the external ramp testers.
3. The Avionics Trainer comes with Fault Simulation Panel for conduct of training on troubleshooting. Panel allows the simulation of faults for enhanced learning

●Specification

The Avionics Trainer will consist of the following :

1. Intercom device
2. Audio control panel
3. Standard transceiver of navigation and communication system
 - Communication transceiver
 - Navigation(VOR/LOC) receiver
 - Glide slope receiver
4. GPS Navigation System
5. Automatic Direction Finder, ADF
6. Distance Measuring Equipment, DME
7. Transponder
8. ILS Indicator
9. Navigation/GPS Indicator
10. ADF Indicator
11. Antenna Group
 - VOR/Glide Slope
 - Communication
 - Marker Beacon
 - GPS
 - ADF
 - DME
 - Transponder
12. Map Display
13. Audio output (speaker and headsets)
14. Intercommunication system between pilot and copilot

15. Provide the test and measurement equipment
16. Fault simulator
17. Power : AC 90-230V, 50/60Hz

●Accessories

1. Handheld ramp tester (include antenna)
2. Headsets
3. Handheld microphone
4. GPS Antenna
5. Operation manual
6. ***Double BNC extension cable (for AT-11007B)

●Option

AT-11051 Portable VHF Communication Station

- No intercom and no audio panel
- The communication will be transmitted directly through various position



K&H MFG. CO., LTD.

5F., No. 8, Sec. 4, Ziqiang Rd., Sanchong Dist, New Taipei City 241, Taiwan (R.O.C.)
<http://www.kandh.com.tw> E-Mail: education@kandh.com.tw
Tel : 886-2-2286-0700 (Rep.) 886-2-2286-7786
Fax: 886-2-2287-3066, 886-2-2287-9704



K&H reserves the right to make changes without notice

Boeing B737-800 Maintenance Simulation

AT-S01



** Notebook is excluded*

*The pictures above are for reference only.
The real products purchased should be considered as final.

The 26 simulation for modules provide a step-by-step approach for users to learn from Aircraft Walk Around to the internal cockpit control in every aspect of B737-800. Moreover, the simulation content focuses on the introduction to the position of every control panel and component parts in terms of the operation method and control theory. It is an ideal solution for those who intend to enter the world of aviation. However, it's extremely useful not only for training in school but also for self-studying.

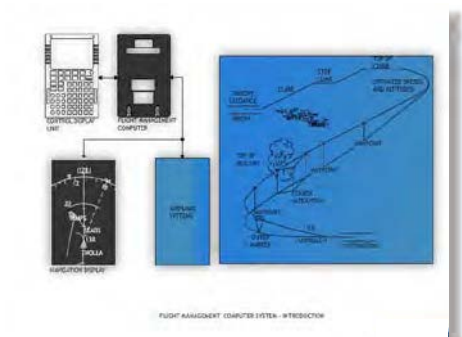
The software includes Mechanical Engineering (ME) and Avionics (AV), the module contents are as followed:



1. Aircraft Walk Around



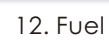
2. Aircraft General

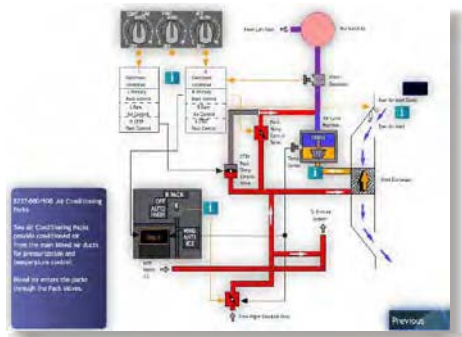


3. Flight Management Introduction



4. Flight Instruments





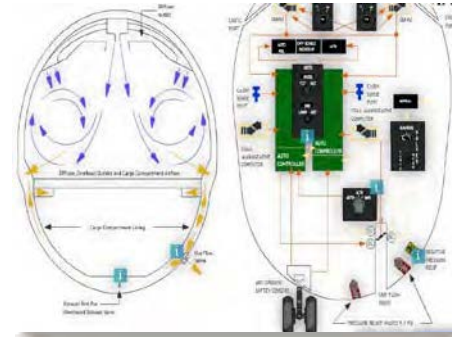
13. Air Conditioning



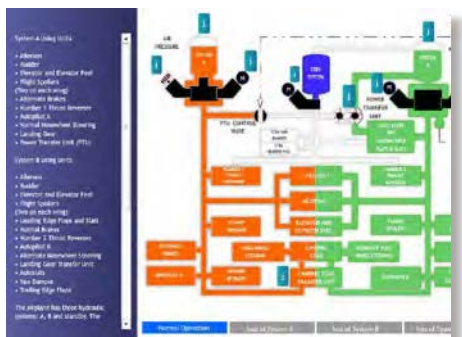
14. Lighting



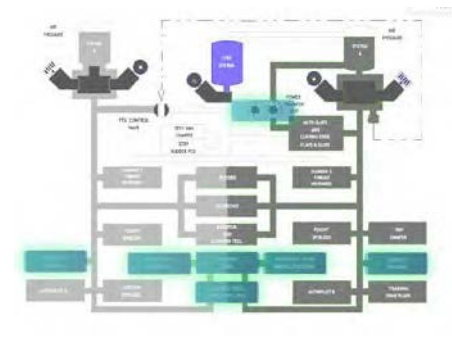
15. Oxygen



16. Pressurization



17. Hydraulics



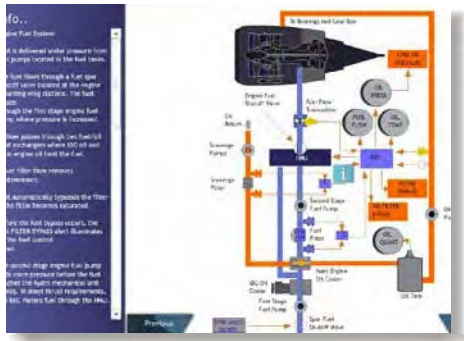
18. Landing Gear-Brake



19. Pneumatics



20. Propulsion



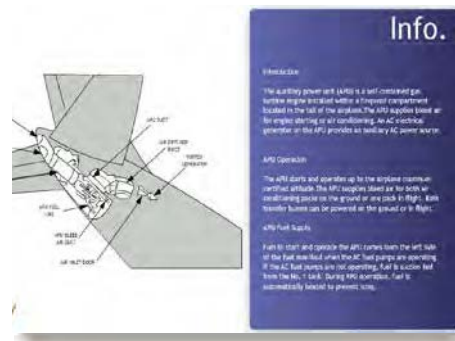
21. Engines



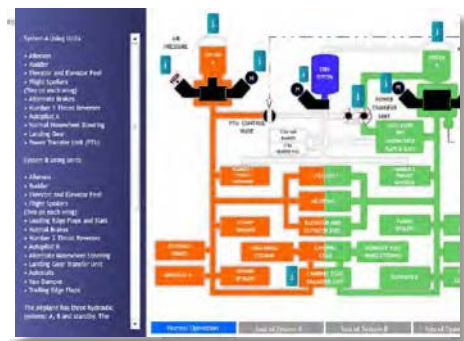
22. Ice-Rain Protection



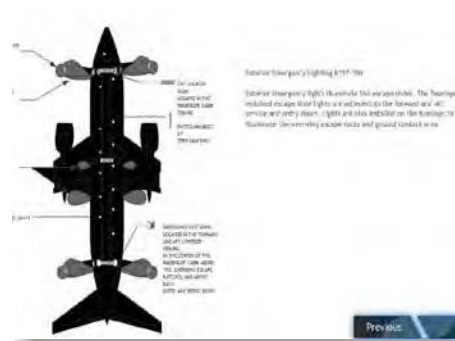
23. Fire Protection



24. APU-Assist Power Unit



25. Warning System



26. Emergency Equipments-General

● System requirement

1. PC : 1GHz or faster 32-bit (x86) or 64-bit (x64) processor, 1GB RAM, 300MB more free disk space
2. OS : Windows 7 / 8 / 10



K&H MFG. CO., LTD.

5F., No. 8, Sec. 4, Ziqiang Rd., Sanchong Dist, New Taipei City 241, Taiwan (R.O.C.)
<http://www.kandh.com.tw> E-Mail: education@kandh.com.tw
 Tel : 886-2-2286-0700 (Rep.) 886-2-2286-7786
 Fax: 886-2-2287-3066, 886-2-2287-9704



K&H reserves the right to make changes without notice

Basic Model Flight Simulator

AT-F3001A



*The pictures above are for reference only.
The real products purchased should be considered as final.

The Basic Model Flight Simulator consists of six essential flight instruments which are all precise replica of a General Aviation Instruments.

The Generic Aircraft Panel combine with the yoke has very precise cut-outs for all necessary instruments and simulates a full VFR Single Engine aircraft.

Flight instruments are the instruments in the cockpit of an aircraft that provide information about the flight situation of that aircraft thus with the help of the simulator, students will be able to learn how to read each instruments and also to understand the function of each instrument.

●Features

Basic Model Flight Simulator will comes with a flight simulator software, a flight yoke with throttle which fits exactly into the panel forming a perfect match and the rudder pedals to bring students even closer to the experience of flying a real aircraft.

●Specification

The Basic Model Flight Simulator includes the following units :

1. Flight Instrument Panel

- ◆ Basic instruments
 - Airspeed Indicator
 - Attitude Indicator
 - Altimeter
 - Turn and Bank Indicator
 - Heading Indicator
 - Vertical Speed Indicator



- ◆ Airplane status monitor instruments
 - Tachometer
 - EGT / Fuel Flow Indicator
 - Suction Gauge / Ammeter
 - Oil Temperature and Oil Pressure Gauge
 - Fuel Quantity Indicator

2. Flight Joystick System

- ◆ Yoke
- ◆ Throttle Quadrant
- ◆ Rudder pedal

3. Computer System

4. Flight Simulation Software

5. Visual System

- ◆ 32-inch LED display

●Accessories

Operation manual



K&H MFG. CO., LTD.

5F., No. 8, Sec. 4, Ziqiang Rd., Sanchong Dist, New Taipei City 241, Taiwan (R.O.C.)

<http://www.kandh.com.tw> E-Mail: education@kandh.com.tw

Tel : 886-2-2286-0700 (Rep.) 886-2-2286-7786

Fax : 886-2-2287-3066, 886-2-2287-9704



K&H reserves the right to make changes without notice

Cockpit Instrumentation Trainer

AT-12001

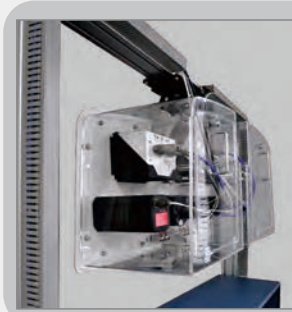


*The pictures above are for reference only.
The real products purchased should be considered as final.

● Features

The trainer provides hands-on training for the students to get a good understanding of the operating principles of probes, sensors, pressure and electronic display system.

The Cockpit Instrumentation Trainer which includes the fault simulator, for allowing the instructor to insert a selected fault or simulate faults, helps students to identify the fault and troubleshoot the problem.



The transparent rear cover of the control panel enables users to observe the wiring and tube connection of the flight instruments.

● Specification

The cockpit instrumentation trainer comprises the following units :

◆ Flight control panel

1. Electronic Flight Instrumentation Display, EFIS
2. Engine Monitor System, EMS
3. Three degrees of freedom instrument panel by the yoke
 - Pitch movement
 - Roll movement
 - Yaw movement
4. Flight instruments
 - Turn coordinator (for electrical drive)
 - Directional gyro (for electrical drive)
 - Attitude indicator / Artificial horizon
 - Airspeed indicator
 - Altimeter
 - Vertical speed indicator
5. Protection of power distribution (circuit breakers)

◆ Pitot-Static System

1. Digital pressure indicator
2. Control valve
3. Pitot tube
4. Static port

◆ Engine components

1. Actual mode
 - Cylinder Head Temperature (CHT) thermocouple
 - Exhaust Gas Temperature (EGT) thermocouple
 - Outside Air Temperature (OAT) sensor

- Fuel pressure sensor
- Oil pressure sensor
- Oil temperature sensor
- Fuel quantity sensor

2. Simulator mode
3. Throttle control assembly
4. Warning light
5. Warning sound

◆ Fault simulator panel

- ◆ Power : AC 110V or 220V, 50Hz / 60Hz

● Accessories

1. Operation manual
2. Heat gun (AC 110V or 220V)
3. Pressure tester 0—100PSI



K&H MFG. CO., LTD.

5F., No. 8, Sec. 4, Ziqiang Rd., Sanchong Dist, New Taipei City 241, Taiwan (R.O.C.)
<http://www.kandh.com.tw> E-Mail: education@kandh.com.tw
Tel : 886-2-2286-0700 (Rep.) 886-2-2286-7786
Fax: 886-2-2287-3066, 886-2-2287-9704



K&H reserves the right to make changes without notice

Diamond DA40 Flight Simulator System with Mock-up Fuselage

AT-F1003



The complete flight simulator system provides the functional simulation of single piston engine propeller aircraft with all details.

It is reproduced according to the exact dimensions and layout of the original instrument panel which can be found in the Diamond Da40 aircraft.

● Features

The mock-up aircraft fuselage is a replica or actual fuselage of the Diamond DA40 single piston engine propeller aircraft with a scale of 1:1.

Complete flight simulator instrument panel of Glass Cockpit system with configurable Primary Flight Display (PFD), Multi Function Display (MFD) or Navigation Display (ND).

● Specifications

Instrument panel of the Diamond DA40 flight simulator system comprises the following units:

1. Flight instruments
 - Altimeter, ALT
 - Airspeed indicator, ASI
 - Attitude indicator, AI
 - Two units of simulated of G1000 glass cockpit.
Primary flight display (PFD)
Multi-Function display (MFD)
 - Audio panel
 - Autopilot
 - Digital clock
2. Flight control
 - Two units of control stick
 - Throttle control assembly
 - Rudder pedals
 - Trim wheel
 - Flap control switch
3. Engine master switch
4. Electrical master key switch
5. Avionics master switch
6. Light regulation
7. Dummy circuit breakers
8. Seats for pilot trainee and instructor

The Visual System that comprises 3pcs of TVs display and the adjustable display stand will form the flight simulator.

1. Support 3pcs of LED TV 42 inch above (AC 110 or 220V).
2. Quality materials used.
3. 3pcs TVs displays are mounted on to the supporting structure at desired height and position for optimum panoramic simulation viewing.



● Accessories

1. Operation manual
2. Microsoft flight simulator CD
3. 1-set computer
4. Visual system
5. Speaker



K&H MFG. CO., LTD.

5F., No. 8, Sec. 4, Ziqiang Rd., Sanchong Dist, New Taipei City 241, Taiwan (R.O.C.)
<http://www.kandh.com.tw> E-Mail: education@kandh.com.tw
Tel : 886-2-2286-0700 (Rep.) 886-2-2286-7786
Fax: 886-2-2287-3066, 886-2-2287-9704



K&H reserves the right to make changes without notice

Mini Turbine Engine Trainer

AT-13101



*The pictures above are for reference only.
The real products purchased should be considered as final.

AT-13101 Mini Turbine Engine Trainer, with more than 12KG of thrust, was developed and manufactured in Taiwan. This Turbine Engine trainer is controlled by Electronic Control Unit (ECU). It can control the starting process, ignition, RPM and fuel flow. ECU prevents damages resulted from improper shutdown. Automatic ignition system ensures stability of starting up by linking DC motor to internal compressor.

●Features

AT-13101 Mini Turbine Engine Trainer comes with manifold sensor such as temperatures, pressure, the thrust produced, RPM and fuel flow. With those sensors, multiple surveillance and data analysis for Turbine engine will be done effectively. All the properties mentioned above could provide stable control platform for multiple data analysis and measurement; it is suitable for aviation training college and related engineering field to develop applications.

●Specification

1. 15 inch panel PC
2. Controller board
3. Master power switch on with a safety key
4. Turbine ignition switch is protected by switch guard, to prevent unintentional activation or emergency shutdown
5. Throttle control : Direct Current (DC) voltage control
6. LCD display
7. Fuel Tank : 50 Liters
8. Turbine design
 - Maximum thrust : 12 Kg/120000RPM
 - RPM : 3500 – 120000 RPM
 - Fuel : Jet-A, kerosene or diesel (must be mixed with 5% synthetic turbine oil)
 - Length : 35 cm
 - Diameter : 11 cm
9. ECU
 - Automatically control fuel pump, regulate the fuel flow and safety limit
 - Monitor EGT, for starting and shut down
 - Monitor DC power supply : regulated DC power supply for starter and ignitor
 - ECU will monitor startup, run and shutdown for safely operation
10. Sensors for Turbine engine trainer
 - Intake air temperature sensor
 - Intake air pressure
 - After diffuser temperature sensor
 - After diffuser Pressure sensor

- Turbine inlet temperature sensor
- Turbine inlet pressure sensor
- Turbine outlet temperature sensor
- Turbine outlet pressure sensor
- Nozzle temperature sensor
- Nozzle pressure sensor
- Thrust measure
- Fuel consumption
- Intake air volume
- RPM

11. Power : AC 110V 60Hz / 230V 50 Hz
12. Dimension : 85.5cm (W) X 70 cm (D) X 149 cm (H)
13. Weight : 40 Kg
14. Practical lessons
 - Turbine starting procedure
 - Turbine's temperature and pressure measurement, sensor familiarization
 - Comparison between Thrust and RPM
 - Comparison between Fuel consumption and RPM
 - Comparison between thrust and Fuel grade
 - Comparison between turbine's intake air temperature
 - Turbine steady and dynamic performance analysis
 - Comparison between fuel mixture and RPM
 - Thermodynamic and waste gas studies

●Accessories

1. Operation manual
2. Fuel pipe, for fuel top up
3. Ear muffler



K&H MFG. CO., LTD.

5F., No. 8, Sec. 4, Ziqiang Rd., Sanchong Dist, New Taipei City 241, Taiwan (R.O.C.)
<http://www.kandh.com.tw> E-Mail: education@kandh.com.tw
Tel : 886-2-2286-0700 (Rep.) 886-2-2286-7786
Fax: 886-2-2287-3066, 886-2-2287-9704



K&H reserves the right to make changes without notice

Navigation & Communication Trainer

AT-11003



*The pictures above are for reference only.
The real products purchased should be considered as final.

The Navigation and Communication Trainer is a basic functional simulation of a standard aircraft avionics system. Besides that, most components in the trainer will be fully functional aircraft components. It is intended for use in avionics/aircraft electronics curriculum and is aimed at providing students with hands-on experience in aircraft avionics.

●Features

1. It is designed to provide practical, hands-on instruction in aircraft electronics and avionics.
2. The Trainer is equipped with testing wireless signal.
3. The Trainer comes with Fault Simulation Panel for conduct of training on troubleshooting. Panel allows the simulation of faults for enhanced learning.

●Specification

The Navigation & Communication Trainer will consist of the following :

1. Intercom device
2. Audio control panel
3. Standard transceiver of navigation and communication system
 - Communication transceiver
 - Navigation(VOR/LOC) receiver
 - Glideslope receiver
4. ILS Indicator
5. VOR Indicator
6. Antenna
 - VOR/Glideslope
 - Communication
 - Marker Beacon
7. Audio output (speaker or headphone)
8. Intercommunication system between pilot and co-pilot
9. Provide the test and measurement equipment
10. Fault simulator panel
11. Power : AC 90-230V, 50/60Hz

●Accessories

1. Handheld ramp tester (include antenna and power)
2. Headphone
3. Handheld microphone
4. Operation manual

●Option

AT-11051 Portable VHF Communication Station

- No intercom and no audio panel
- The communication will be transmitted directly through various position



K&H MFG. CO., LTD.

5F., No. 8, Sec. 4, Ziqiang Rd., Sanchong Dist, New Taipei City 241, Taiwan (R.O.C.)
<http://www.kandh.com.tw> E-Mail: education@kandh.com.tw
Tel : 886-2-2286-0700 (Rep.) 886-2-2286-7786
Fax: 886-2-2287-3066, 886-2-2287-9704



K&H reserves the right to make changes without notice