iGATE PC-ATD

by ***ELITE*** *Simulation Solutions*

Congratulations on your purchase of the **iGATE** PC-ATD by **ELITE** Simulation Solutions! We are confident that you will find it to be the most realistic and powerful PC-ATD available. The **iGATE** is very easy to setup and use. Please reference the following information.

CONTENTS OF THE IGATE PACKAGE

One **iGATE** PC-ATD
One instructor monitor
One computer mouse
One computer keyboard
One Cirrus Rudder Pedals
One IFR Training Tutorial
One set ATC scenario approach plates
One Training Syllabus
One Operating Handbook
One Microsoft Windows 98 Installation CD-ROM
One **ELITE** Simulation Solutions PC-ATD CD-ROM
One ELITE installation floppy disk

SETUP
NSTRUCTIONS

1. Unpack the **iGATE** PC-ATD and place it on a table or desktop that will adequatly support the weight of the console and provide optimal height for yoke positioning.
2. Setup the Instructor Station on a table near either side of the PC-ATD.
3. Connect the instructor monitor to the 15-pin video port on the side of the console.
4. Connect the mouse to the PS2 mouse port on the side of the console.
5. Connect the keyboard to the PS2 keyboard port on the side of the console.
6. Connect the **iGATE** power cable to a 120 volt AC wall outlet via surge protector.

POWERING UP
YOUR IGATE

1. Turn ON the SYSTEM POWER switch located on the lower right sub-panel. This switch provides external power for all **iGATE** operations. This should remain ON until entire system shut-down is desired.

2. Turn on the Instructor monitor.

3. Turn ON the Aircraft key switch located on the lower left sub-panel. This switch provides power to the components necessary for flight simulation. The computer may be used for all non-flight simulation activities if the key is in the off position.

4. Press the Computer start button located next to the SYSTEM POWER switch. The system will "boot up" like a normal computer system and the ***ELITE*** simulation program will automatically launch. An ***ELITE*** PC-ATD icon is located on the Windows desktop for launching subsequent starts. To select aircraft, navigation library, please consult the ***ELITE*** Operating Manual.

5. When using ***iGATE*** as a flight simulation device, please refer to the ***ELITE*** Simulation Solutions Operators Manual for software operation.

Q: The computer monitor indicates NO *ELITE* CONTROL INTERFACE DETECTED.

A: The ***ELITE*** Universal Control Interface has not been detected by the computer and will automatically shutdown the program after three minutes. To resume, simply exit the program via the options presented and attempt a restart. However, Reset buttons #1 and #2 should be pressed prior to restarting the program. WARNING: Do NOT depress either Reset button if the program is performing normally as this will cause the program to stop functioning and require a program restart.

Q: The Avionics Panel does not light up.

A: When an aircraft is chosen on the aircraft selection screen and appears on the ***iGATE*** Main Display Panel the avionics panel will activate. If it does not, insure that:

1. The console ignition is ON.
2. The battery, alternator and master avionics switch is ON.
3. The aircraft is configured for DIGITAL Avionics in the software's CONFIGURATION PAGE.

Q: The PC-ATD equipment check on the software startup indicates a non operating feature such as AVIONICS NOT DETECTED, RUDDER PEDALS NOT DETECTED, etc. (which disqualifies *iGATE* from logging time IAW 61-126).

A: Exit the ***ELITE*** software to the operating system's DESKTOP. If the malfunction related to the flight consoles or avionics panel is not detected, insure that the ignition key is turned ON and (in turn) press RESET BUTTONS 1 and 2. Restart the program by double clicking the ***ELITE*** icon.

Q: The *ELITE* PC-ATD software boots up but the engines won't start and the sub-panel switches don't operate.

A: The Aircraft key switch needs to be switched on. This will restore power to all sub-panel switches.

Q: The Master Power is ON but the monitor only displays a test pattern and the computer does not seem to boot up.

A: The computer has not been turned on. Simply depress the Computer Start button next to the Master Power switch located on the lower right sub-panel of the ***iGATE***.

TECHNICAL SUPPORT

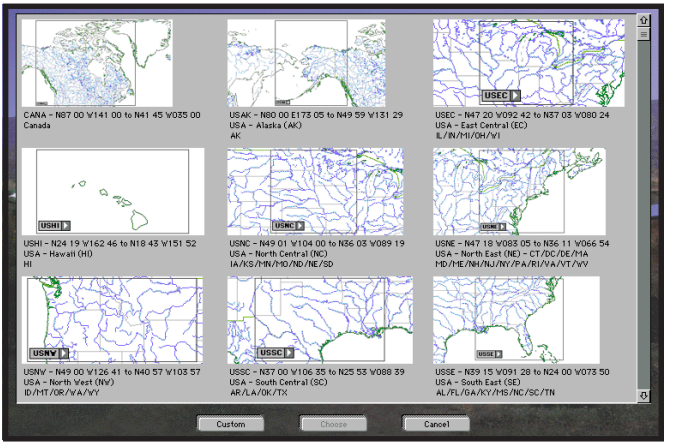
Please read the ***ELITE*** / ***iGATE*** Operator's Manual before contacting technical support as the answers to most frequently asked questions are readily available. If it is necessary to contact technical support, please specify the exact nature of the problem. IMPORTANT: Please note any error messages and where they occured.

407-277-5757

Once the ***iGATE*** has been powered up properly it will rest on the ***ELITE*** PC-ATD Aircraft module selection screen. Simply select the aircraft to be flown by either double-clicking a particular aircraft or click once to highlight a particular aircraft and then push the CHOOSE button on the bottom of the screen.

NOTE: ***ELITE*** aircraft are drawn in two resolution modes: 800 x 600 and 1024 x 768 dpi. This information is given under each aircraft graphic thumbnail on the aircraft selection screen. The main display unit of the ***iGATE*** is defaulted to the highest resolution. This means that all aircraft instrument panels depicted in the 1024 x 768 mode will completely fill the screen. If an 800 x 600 aircraft module is chosen, there will be a 1 to 2 inch black border around the instrument panel. To fill the screen with an 800 x 600 aircraft module, you must first change the display setting in Windows (My Computer, Control Panel, Dispay, Settings) to 800 x 600, 16 bit color.

After aircraft selection the ***ELITE*** PC-ATD Navigation database selection screen will appear. Simply double-click the navigational area desired or click once to highlight a particular area and then push the CHOOSE button on the bottom of the screen.



Please refer to the following chapters of the ***ELITE*** Operator's Manual *for additional information:*

CHAPTER 2, Operational Concepts.
CHAPTER 3, Aircraft.
CHAPTER 4, Program Features.

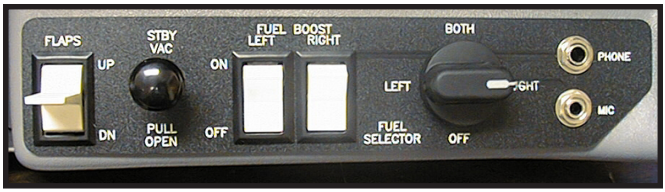
A Hobbs meter is provided to record flight hours for official logging of flight time.

To manually start engines, turn ON the MAGNETO switches for the appropriate engine and depress the STARTER button.

The sub panel located to the *left of the yoke* contains six rocker switches. The first four from the left are for the Battery, Radio Master and Alternators respectively. The up position is ON and the down position is OFF. The two switches on the right control the Cowl Flaps. The up position closes the cowl flaps while the down position opens the cowl flaps.

The sub panel located to the *right of the yoke* contains rocker switches for the landing lights, strobe lights, navigation lights and pitot heat. The parking brake knob is located to the right of the pitot heat switch. The parking brakes are operated by pulling out the PARKING BRAKE knob. The parking brakes are released by pushing the parking brake knob in then pulling out and pushing in one more time.

The landing gear lights and actuation lever are located on the right side of this sub panel. The landing gear lever is operated by FIRST PULLING OUT on the handle and simultaneously moving the handle to the opposite position. Pulling on the handle is necessary to clear the locking mechanism which prevents inadvertent gear lever movement. The landing gear indicator lights are green when the gear is down and show red when the gear is in transition or doesn't agree with the position of the gear switch.



The sub panel located to the right of the throttle quadrant contains switches to operate flaps, fuel boost pumps, knobs to control the standby vacuum and fuel selector valve.

The flaps are operated by movement of the FLAPS switch. The Cessna and Mooney aircraft flaps require the operator to depress and hold the flap switch until desired flap deployment is achieved. Flap retraction is achieved in the same manner. The Beechcraft and Piper aircraft flaps only require the flap switch to be momentarily depressed causing the flaps to move automatically to the next position. Flap retraction is achieved in the same manner. With the optional Beechcraft King Air module, flaps are operated like other Beechcraft models except that in the Approach to Full range the flaps can be stopped at any point between by simply pushing the flap lever up momentarily. Flap retraction in the King Air is achieved in the same manner.

The standby vacuum is operated by pulling out on the knob similar to the operation of the parking brake.

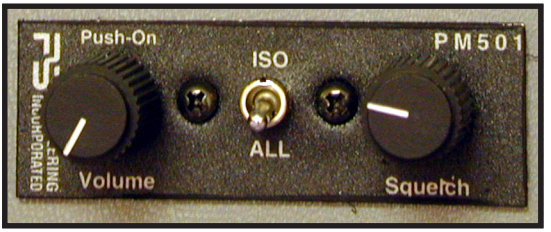
The fuel boost pumps are operated by selecting ON or OFF for the desired engine. Single-engine aircraft use the LEFT BOOST PUMP.

The FUEL SELECTOR knob allows the operator to select from either the LEFT or RIGHT fuel tank or choose BOTH fuel tanks. The operator may also select the OFF position thus shutting off fuel flow.

The RUDDER TRIM knob allows the operator to trim off rudder pressure caused by asymmetric power or drag. The RUDDER TRIM knob should be in the top center position for normal operations.

PM501
INTERCOM

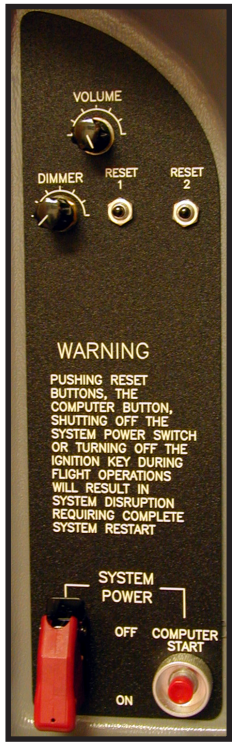
PM501 Intercom



The PS Engineering PM501 intercom is incorporated into the ***iGATE*** panel to enhance the level of realism by allowing the pilot and instructor to communicate with one another as in the actual aircraft. The pilot will connect his headset to the jacks labeled PILOT on the left-side panel and the instructor will connect his headset to the jacks labeled CO-PILOT on the right side panel. The PM501 is turned ON by pushing the Push-On button. Turning the Push-On button adjusts system volume for all users. The PM501 utilizes a Voice Operated Relay (VOX) that automatically triggers the microphone for normal communications between pilot and instructor. The Squelch knob allows the user to

adjust the sensitivity of the VOX. The toggle switch in the middle of the PM501 should be in the ALL position for normal communications between pilot and instructor.

The panel located on the far right side contains the operating knobs for the speaker volume and dash light dimmer and also the two reset buttons. The system power switches are located at the bottom of this panel.



SHUT DOWN PROCEDURES

EXIT ***ELITE*** software
EXIT operating system

After computer shuts down:
Turn OFF ignition key
Turn OFF SYSTEM POWER switch

IGATE WARRANTY

The ***ELITE*** Simulation Solutions ***iGATE*** PC-ATD is warranted to the original purchaser to be free from defects in software, materials and workmanship for a period of one (1) year from the date of purchase. During this warranty period. ***ELITE*** Simulation Solutions will, at its option, repair or replace at no charge any component determined to be defective. ***ELITE*** Simulation Solutions reserves the right to use remanufactured parts in the repair and/or replacement of the ***iGATE***.

The liability under this warranty is limited to the repair of and/or replacement of the defect or defective part at our manufacturing facility. Shipping charges are included only during the first ninety (90) days for the original owner. This warranty does not apply if, in the opinion of ***ELITE*** Simulation Solutions, the ***iGATE*** has been damaged by accident, abuse, improper usage, or as a result of service or modification by someone other than ***ELITE*** Simulation Solutions or its representatives.

ELITE Simulation Solutions will not be responsible for any consequential or incidental damages resulting from the purchase, use, or improper functioning of the **iGATE** regardless of the cause. Such damages for which **ELITE** Simulation Solutions will not be responsible include, but are not limited to, loss of revenue or profit, downtime costs, loss of use of equipment, cost of any substitute equipment, facilities or services, or claims of your customers for such damage.

This warranty gives you specific legal rights, and you may also have other rights varying from state to state. No other warranties are expressed or implied, including but not limited to implied warranties of salability and fitness for a particular purpose.

To obtain warranty services please contact **ELITE** Simulation Solutions at 407-277-5757 with the serial number of your **iGATE**. A dated proof of purchase may be required in addition to the serial number. An RMA (Return Material Authorization) number is required for any **iGATE** return shipment. Returns will not be accepted without an RMA number clearly visible and legible on the outside of the shipping container. **ELITE** Simulation Solutions is not responsible for shipments delayed, damaged or lost in transit.