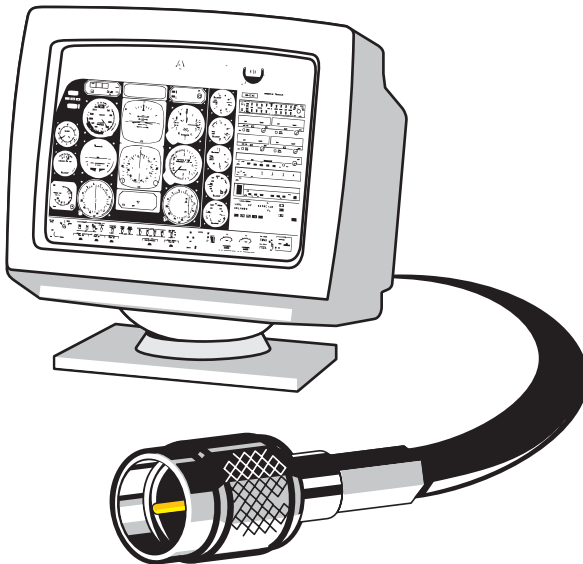


ELITETM

Hardware Installation Manual



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Congratulations on becoming an owner of one of the most technically advanced IFR simulations available for the personal computer. At the same time, **ELITE** is also extremely versatile, supporting multiple computer platforms and operating systems as well as numerous hardware (flight control) options. From simple joysticks to complete professional flight consoles, **ELITE** gives you unparalleled flexibility by allowing you to choose the level of sophistication required to fit your budget, available space, and unique training requirements. This manual will describe the physical (hardware) connections necessary to properly set up your particular **ELITE** training system. For information pertaining to software installation and/or troubleshooting, please refer to the **ELITE** Operator's Manual section 1.

A few things to think about while setting up your system....

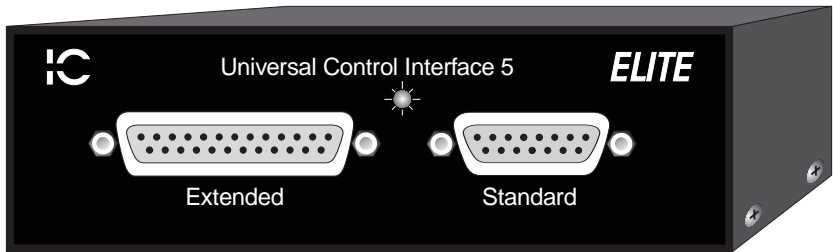


Due to variations in manufacturing processes, your system's component markings *may* appear different than those presented in the diagrams. This is normal and should not affect system component functionality or setup.



When connecting cables between hardware components it helps to think "sequentially." That is, to start from a "source" and connect each component in sequence until the final component is connected. While looking at an entire system diagram might seem intimidating, thinking about each *individual* component connection is much simpler. Enjoy!

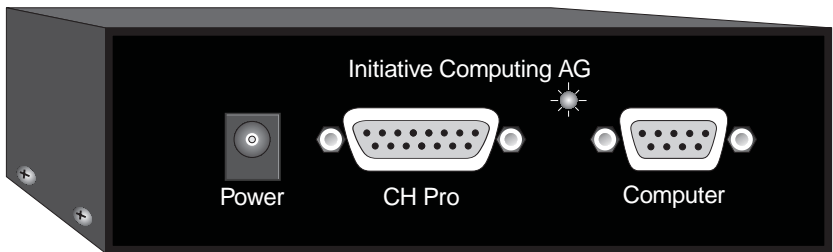
UCI Box



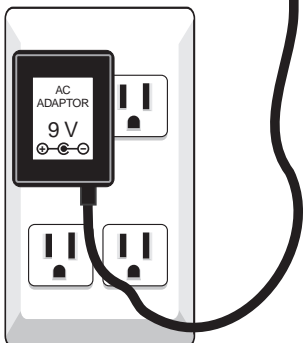
(front view)

The UCI (**U**niversal **C**ontrol **I**nterface) box has four ports, two on the *front*, and two on the *back*. They are labeled:

- 1) **Extended** (25-pin)
- 2) **Standard** (15-pin)
- 3) **CH Pro** (15-pin)
- 4) **Computer** (9-pin)



(back view)



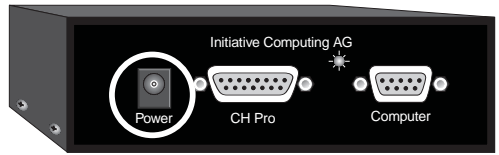
After completing all necessary hardware component connections described in the system diagrams, plug in the included 9V AC adaptor to power the **UCI** box as shown. Verify **UCI** power and operation by observing a steady green light on the *front* of the box, and a flashing yellow light on the *back* of the box.

External Power Connections

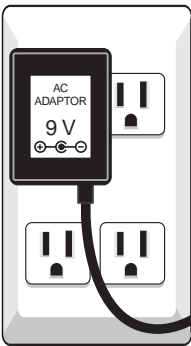
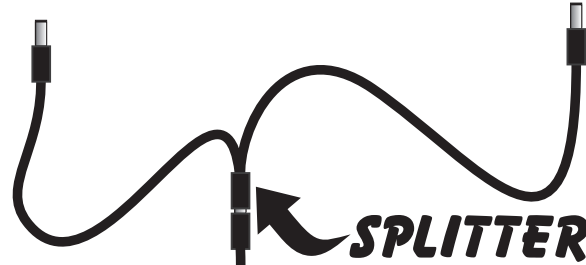
AP-2000/1000
Avionics Panel
(back view)



Power connections to devices requiring external power should be completed after all other necessary hardware component connections have been made. For systems with an **AP-2000 or AP-1000** Avionics Panel, use the included **splitter** to provide power for both the Avionics Panel and UCI box as shown.



UCI box
(back view)



IMPORTANT

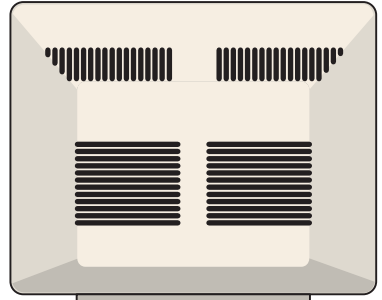
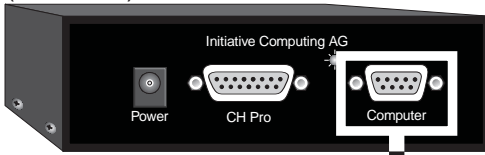
The **AP-3000** Avionics Panel and all **Flight Consoles** come with their own (special) external power supplies. Connect respective power supply to input labeled "Power" as shown below. Do **NOT** use AP-3000 or Flight Console power supplies for other devices.

Digital
Flight Console
(back view)

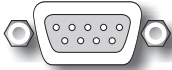


Connecting UCI Box to Computer

UCI box
(back view)

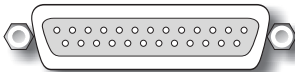


Serial Port

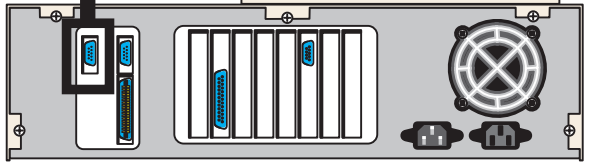


9-pin

or

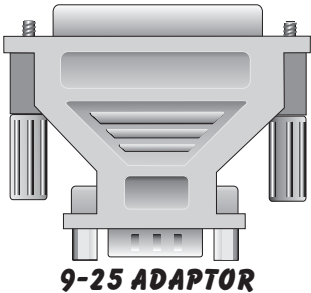


25-pin



IBM & Compatibles

Connect UCI box to a free **serial port** on computer with the supplied 9-pin *male* to 9-pin *female* serial cable. Serial ports on the computer have either 9 or 25 pin **male** connectors. For computers with a 25-pin serial port use the included 9-25 adaptor shown at left.



9-25 ADAPTOR

Macintosh

Connect UCI box to **modem** or **printer** port (shown at left) on computer with the supplied serial cable.

UCI box can also be connected to a **USB** (♻️) port by utilizing a **USB/Serial Adaptor**.



Modem Port

— or —



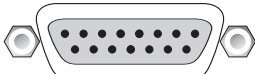
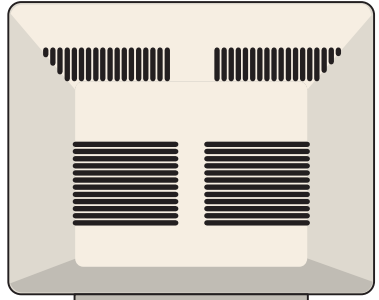
Printer Port



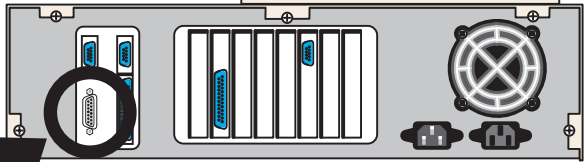
MAC SERIAL CABLE

Basic Flight Controls

Connect flight control(s) to computer using one of the ports listed below. Any flight control device (i.e. joystick, rudder, yoke) recognized and supported by the computer's operating system will work with *ELITE*.



Joystick "game" port
(IBM)



ADB port
(Macintosh)

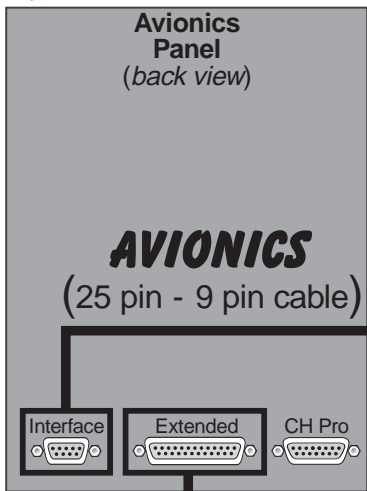
Follow manufacturers instructions for proper flight control connection, calibration, and operation. Refer to Chapter 4 in the *ELITE* Operator's Manual for information on programming joysticks and yokes.



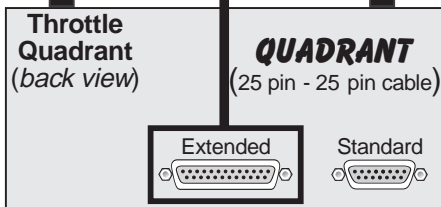
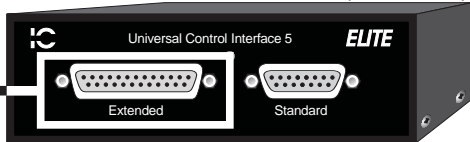
USB port
(IBM / Macintosh)



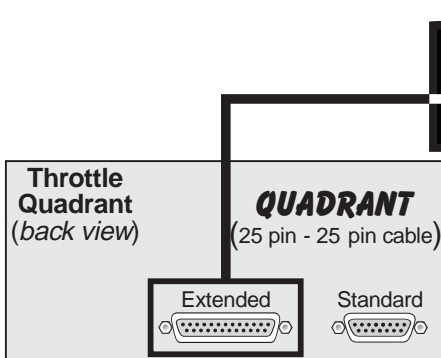
Avionics / Throttle Quadrants



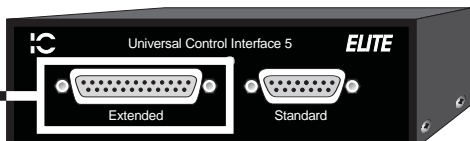
UCI box
(front view)



Avionics Panel & Throttle Quadrant

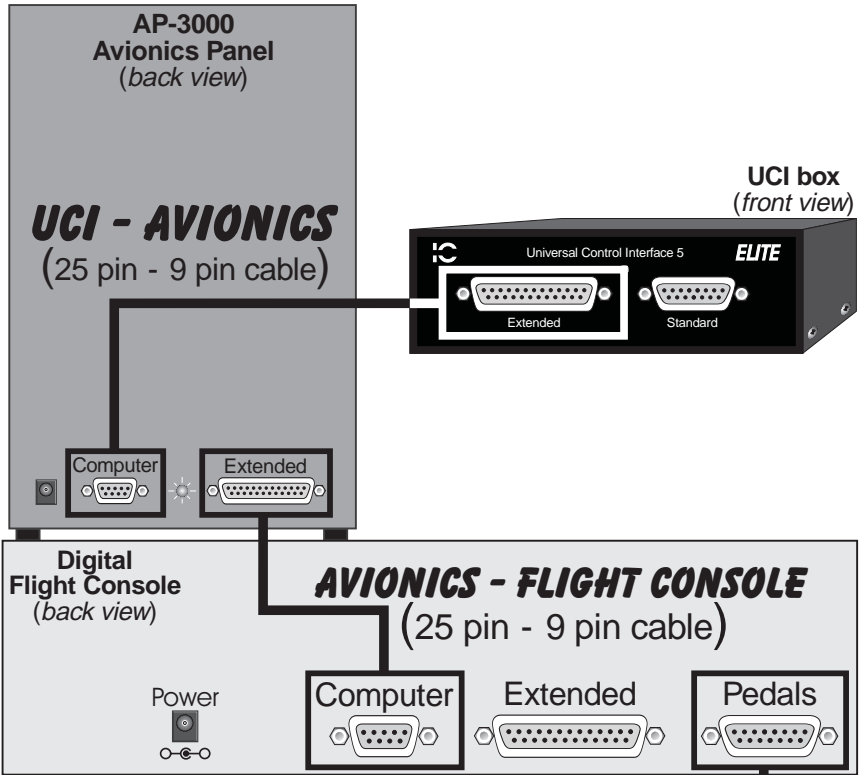


UCI box
(front view)



Throttle Quadrant

Connecting the AP-3000 with a *Digital* Flight Console*



* (i.e. **ELITE** Pro Panel, PFC Cirrus II)

NOTE

External power and UCI/computer connections not shown.

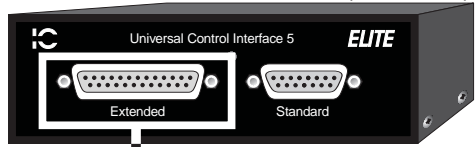


Connecting the *ELITE* Pro Panel SE Flight Console

NOTE

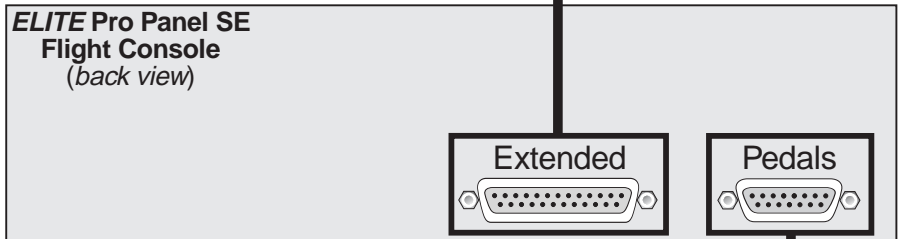
Refer to page 11 (PI-121) for Avionics Panel connection instructions.

UCI box
(front view)



FLIGHT CONSOLE
(25 pin - 25 pin cable)

ELITE Pro Panel SE
Flight Console
(back view)



RUDDER
(9 or 15 pin - 15 pin cable)

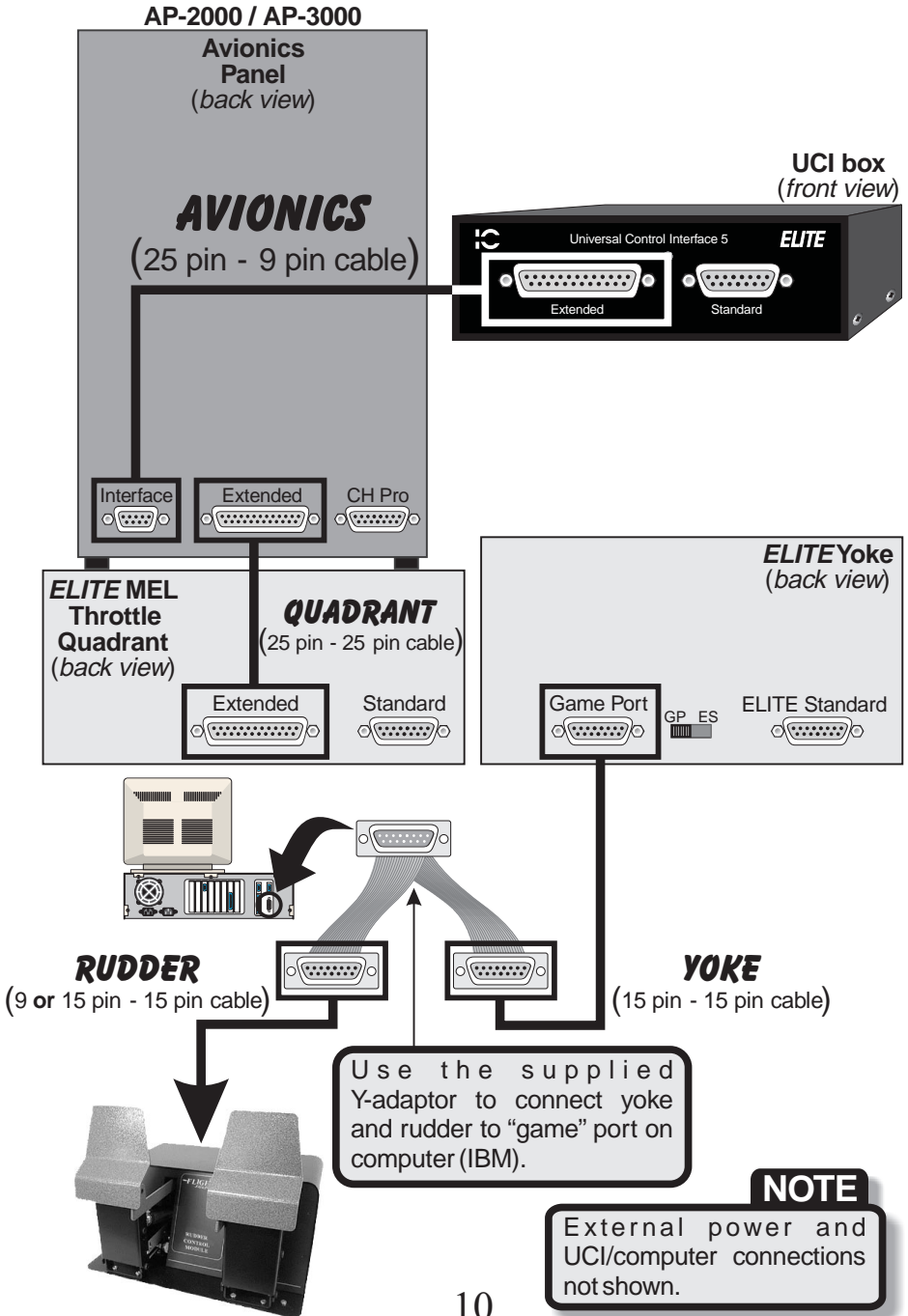


NOTE

External power and UCI/computer connections not shown.

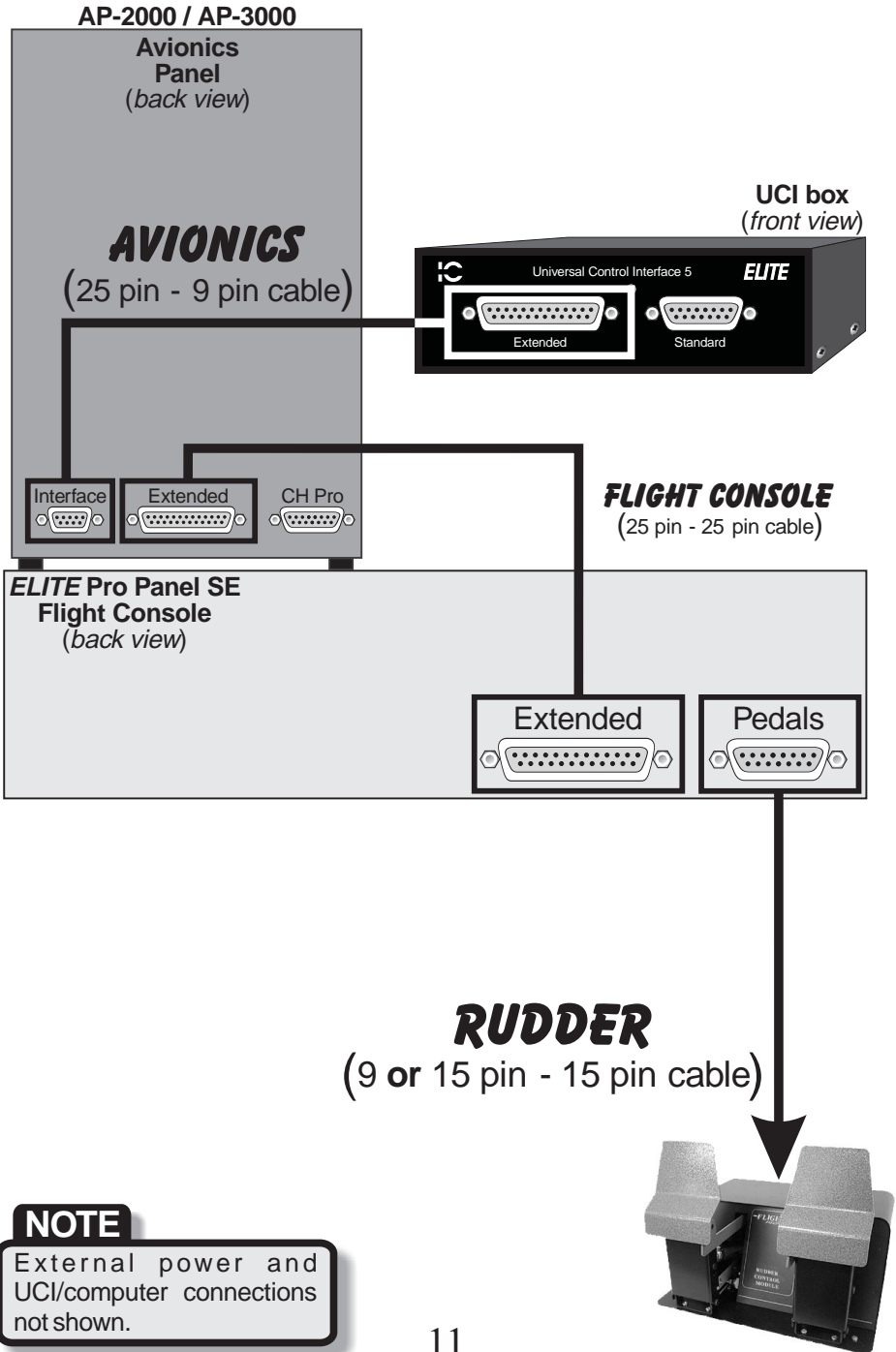
PCATDs

PI-61



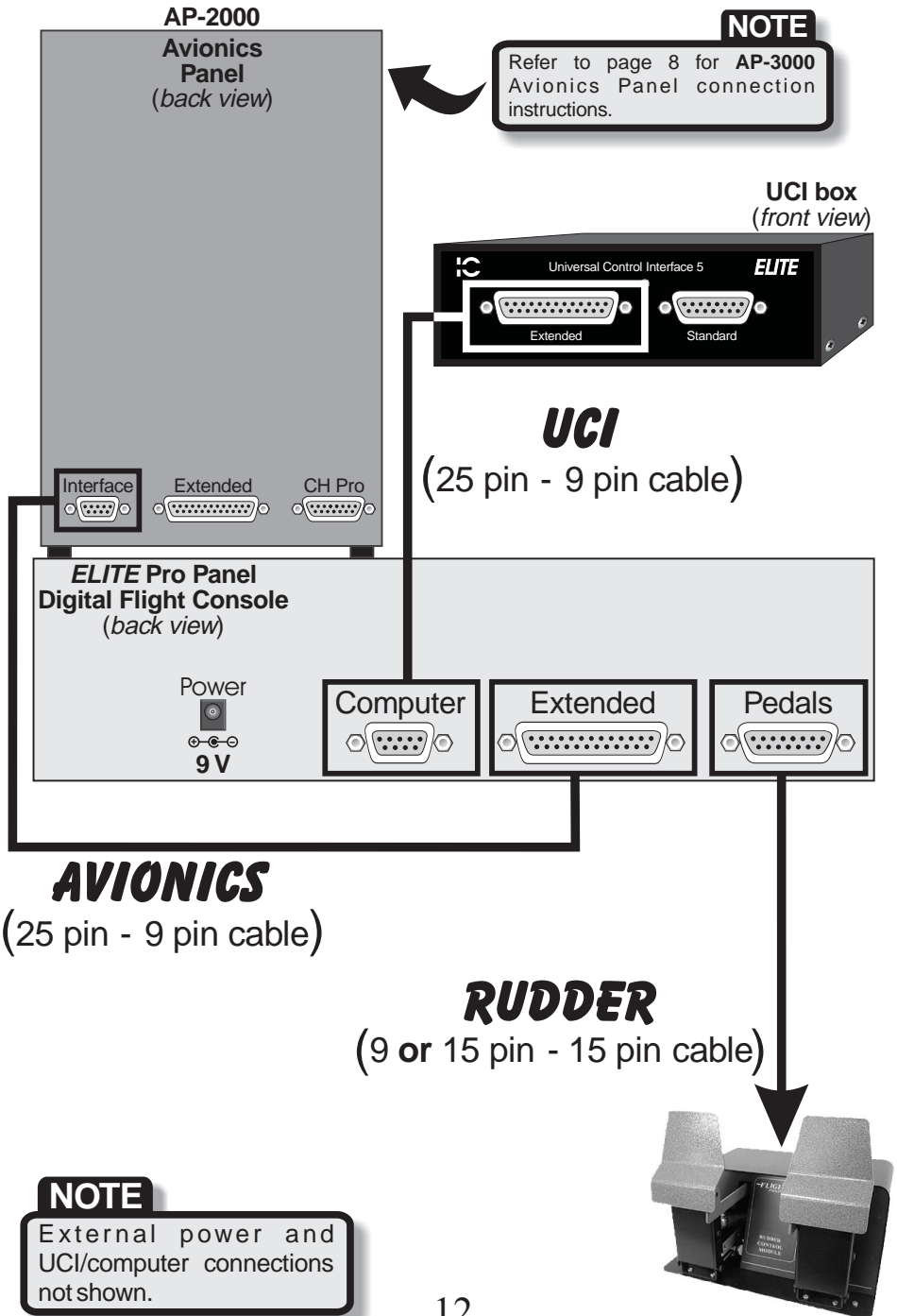
PCATDs

PI-121



PCATDs

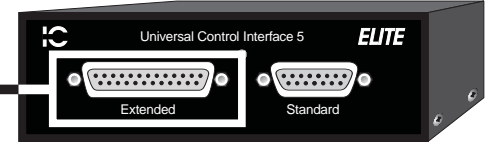
PI-135



NOTE

Refer to page 8 for AP-3000 Avionics Panel connection instructions.

UCI box
(front view)



UCI

(25 pin - 9 pin cable)

**ELITE Pro Panel
Digital Flight Console
(back view)**

Power
9V

Computer

Extended

Pedals

AVIONICS

(25 pin - 9 pin cable)

RUDDER

(9 or 15 pin - 15 pin cable)

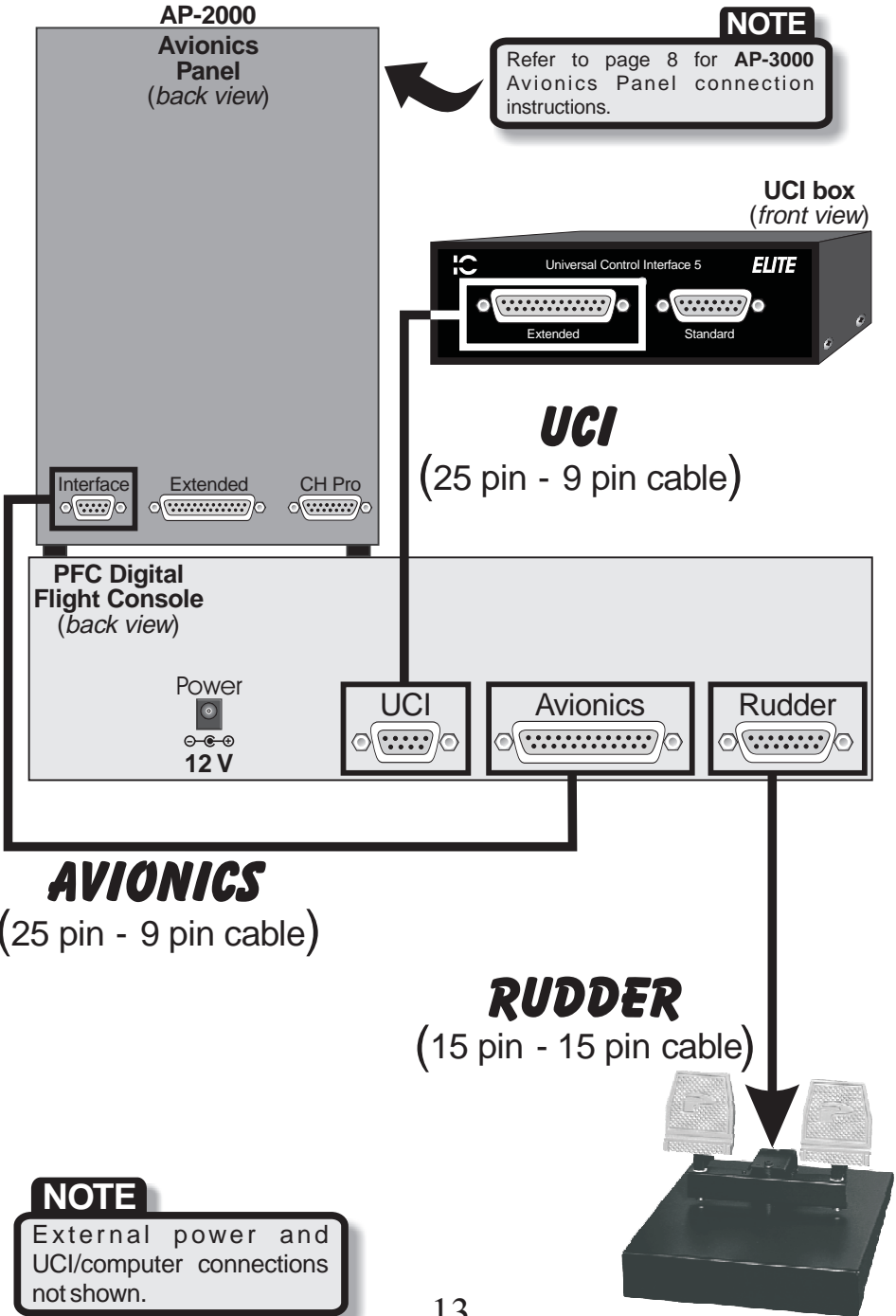
NOTE

External power and UCI/computer connections not shown.



PCATDs

PI-141 • PI-142



Troubleshooting

UCI and AP-1000 detection

1. Make sure UCI box is receiving external power and connected properly. Check for a steady green (power) light on front of UCI and a flashing yellow (data) light on back of UCI. If necessary, unplug and replug power to UCI to **RESET** it.
2. A UCI box or AP-1000 Avionics Panel *must* be plugged into a serial port on the computer to operate the software for more than 3 minutes (regardless of where the flight controls are connected). If you have problems with UCI or AP-1000 detection, please read the troubleshooting section in Chapter 1 of the *ELITE* Operator's Manual.

Controls not working, but UCI detected

If the UCI box is detected properly, but the flight controls are not recognized and you are using a flight console and/or avionics panel, try resetting power to the flight console and/or avionics panel. Simply unplug and replug power to each device to 'reset' that device. The reason this happens is because the UCI box needs to initialize prior to the console or avionics panel. Multiple devices plugged into the same power source (i.e. power strip), *may not* initialize properly due to the application of power simultaneously to these devices when the power strip is turned off and on.

PCATD use

If you are using *ELITE* in a PCATD configuration, you *must* have the PCATD version of the *ELITE* software and have the PCATD "Hardware Detection Report" turned ON under General settings on the Configuration Screen in the software.

Flight Console Switches

In order to get full compatibility with the flight consoles you will need to turn on some external switches functions in the *ELITE* software. On the Configuration Screen, in the far-right column there are specific functions listed that need to be turned on for each aircraft module. Simply choose all applicable external switches, then quit and restart *ELITE*.

External Throttle Quadrants

If you are using a joystick or yoke that has a throttle control and is connected directly to the computer, you will have to disable the "Throttle" on that control device in the *ELITE* "Game controller configuration" dialog box located on the *ELITE* Configuration Screen under Computer SET/ Game Controllers/ Configure. Uncheck the "Throttle" box for that game controller to use the external throttle quadrant. You will need to restart *ELITE* for changes to take effect.

Older UCIs

All UCIs work with the *ELITE* software. All joysticks, yokes, and rudder controls connected directly to the computer and recognized by the computer's operating system will work with *ELITE*. External throttle quadrants will work with UCI-2s and above that have a 25-pin "Controls" or "Extended" port. Avionics panels and new digital flight consoles require newer UCI-4s or UCI-5s. UCI upgrades are available (if needed) to accommodate these devices.

Contact Information

Before contacting us for technical assistance, please gather all available information about your system such as:

- Software product/system name
- Software version & serial number
- Specific error message if applicable
- Computer type including:
 - manufacturer
 - operating system
 - processor speed
 - RAM
 - video card
 - sound card
 - ports
 - peripherals

See if the problem can be consistently reproduced. If so, under what specific circumstances does the problem occur (i.e. which aircraft, configuration, resolution, etc.)

For Technical Assistance:

1. Call **(407) 277-7803**
Mon.- Fri., 9:00am to 5:00pm Eastern Time
2. Write:
ELITE Simulation Solutions
672 N Semoran Blvd., Ste. 104
Orlando, FL 32807
3. E-Mail:
support@flyelite.com
4. Visit **ELITE** on the World Wide Web at
www.flyelite.com



WWW.FLYELITE.COM

ELITE Simulation Solutions
672 N Semoran Blvd., Ste. 104
Orlando, FL 32807

Phone: (407) 277-7700 • FAX: (407) 277-7623