FLIGHTDECK SOLUTIONS

FDS-PRO-Ethernet-CDU

Sim-Avionics Integration

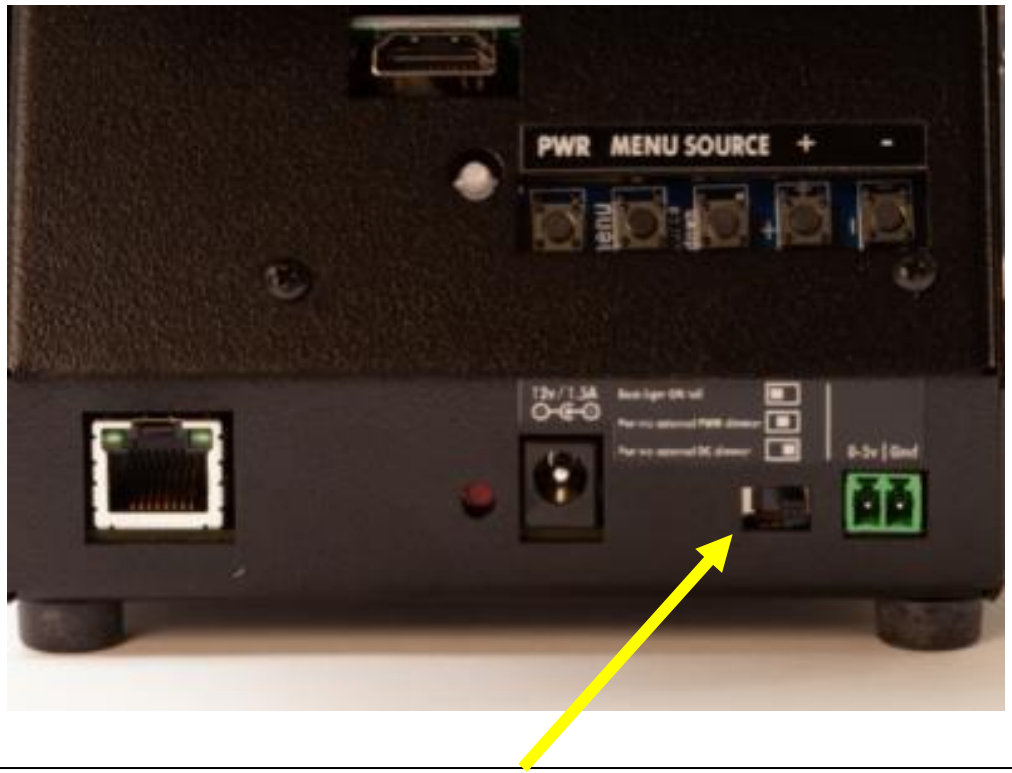
New for **2020**, the FDS-Pro-Ethernet-CDU comes with HDMI compatibility. With most of the latest Graphics cards (GFX) providing DVI-D and HDMI there are limited GFX cards available.

The newest version lets you use the latest GFX cards.

*Minimum requirement for GFX cards and Avionics Suites is a 2 GIG card.

Sim-Avionics shown on the screen

- Rubberized Keys
- Dome type switches providing millions of cycles
- Brightness switch is functional (screen dimming)



Looking from the rear and left to right:

L Position – IBL constantly ON (set to maximum)
C Position – External IBL from PWM dimmer.
R Position - External IBL from DC voltage regulated dimmer.

** The "C" position is most commonly used when connected to the FDS IBL Dist Boards.*

Rear View

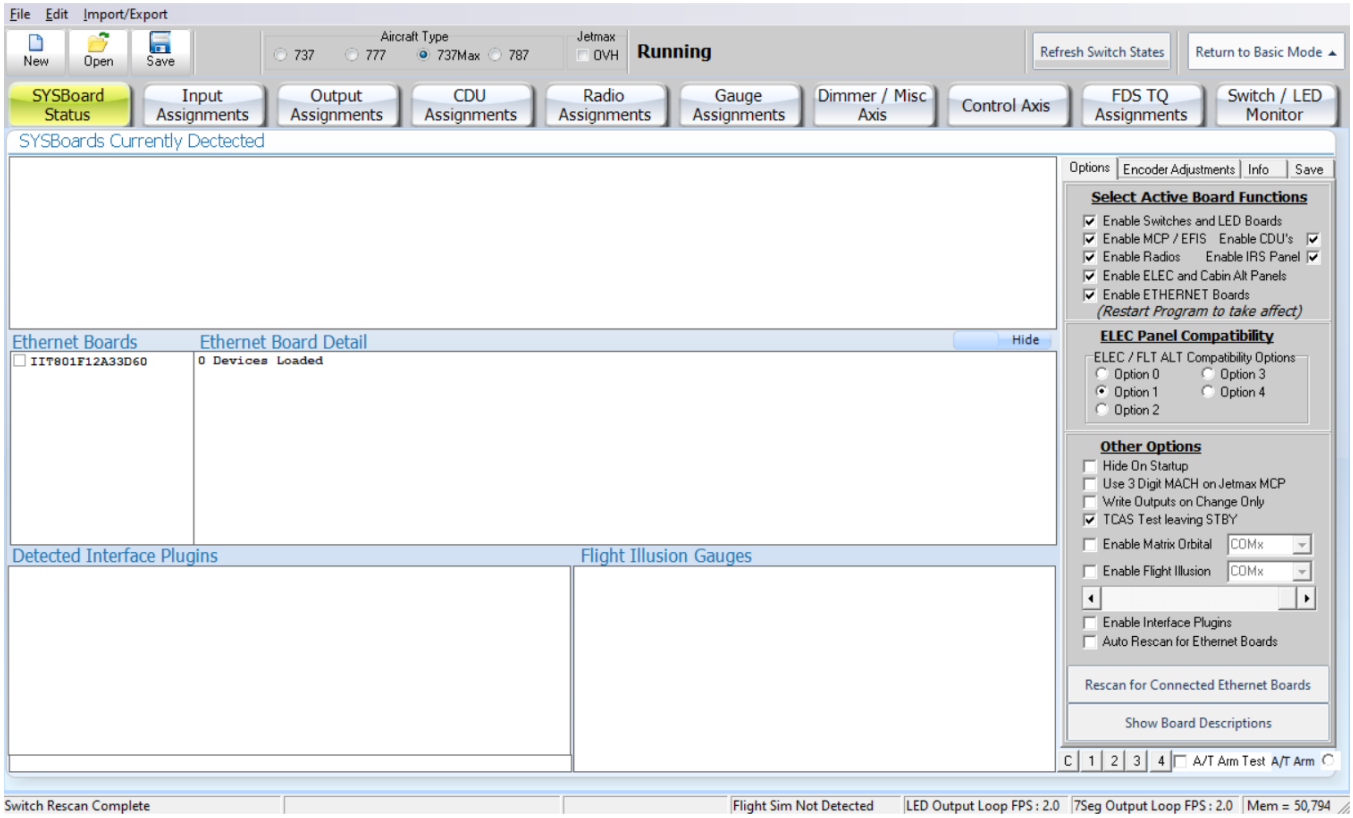
- HDMI port
- Screen switches w/indicator LED
- Ethernet jack
- Reset switch
- Power jack
- Back lighting switch/remote IBL jack

Rear View

Cables connected to the CDU

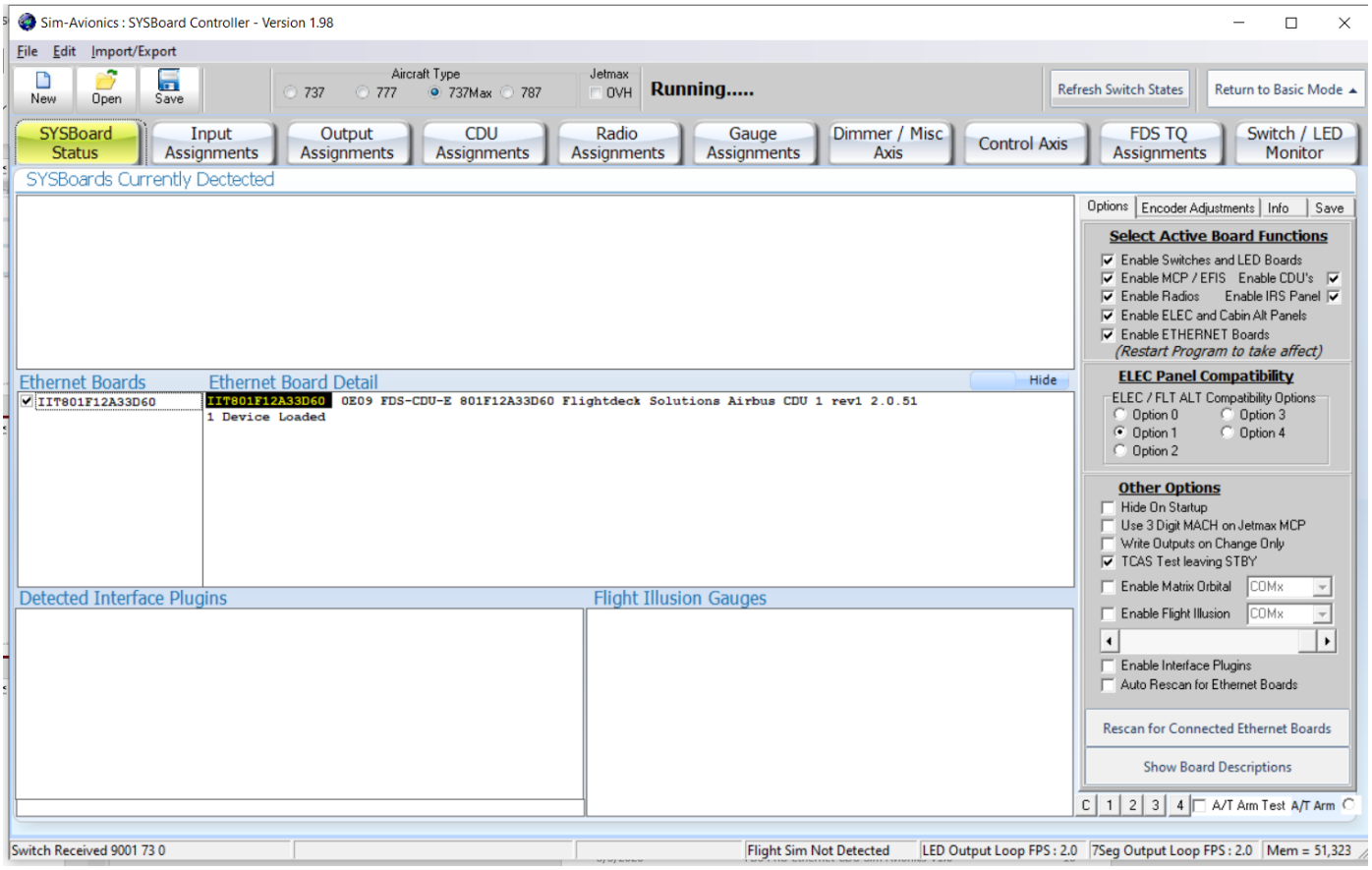
Pin1 – DC voltage from “0 to 5V” from voltage regulated dimmer **OR** “PWM” from PWM dimmer.
Pin2 – GND

*Connects to the FDS IBL Dimmer in the Pedestal with the supplied cable.

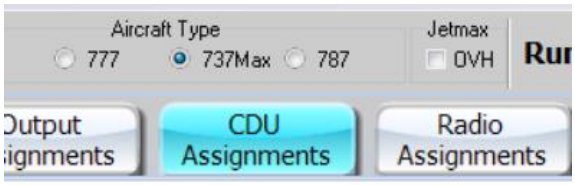


- Start the SYSBoard Controller
- The SYSBoard Controller will be searching for any ethernet devices in the network.
- Check the box for the board you are going to assign.

- *Multiple Ethernet boards will show up, you can run the SYSBoard Controller on multiple computers and only assign the boards you want to run on that computer. Spreading out the "load" on the SYSBoard Controllers is recommended. Run the CDU video and SYSBoard Controller on the same computer.*



- The Ethernet Board Details will show up
- If required there is a “Rescan for Connected Ethernet Boards”



- Then click the ***CDU Assignments*** tab to assign the CDU’s in your MIP (or OBS in B777 set-ups)

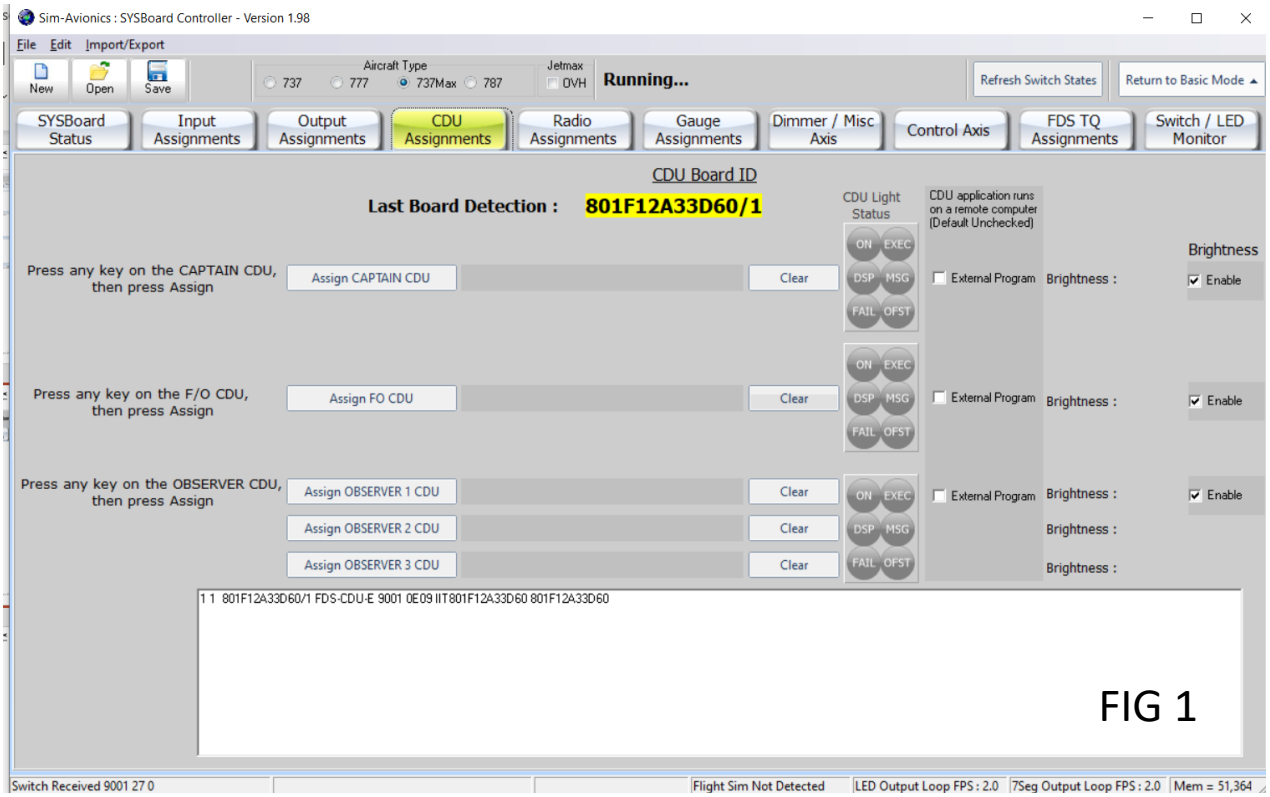
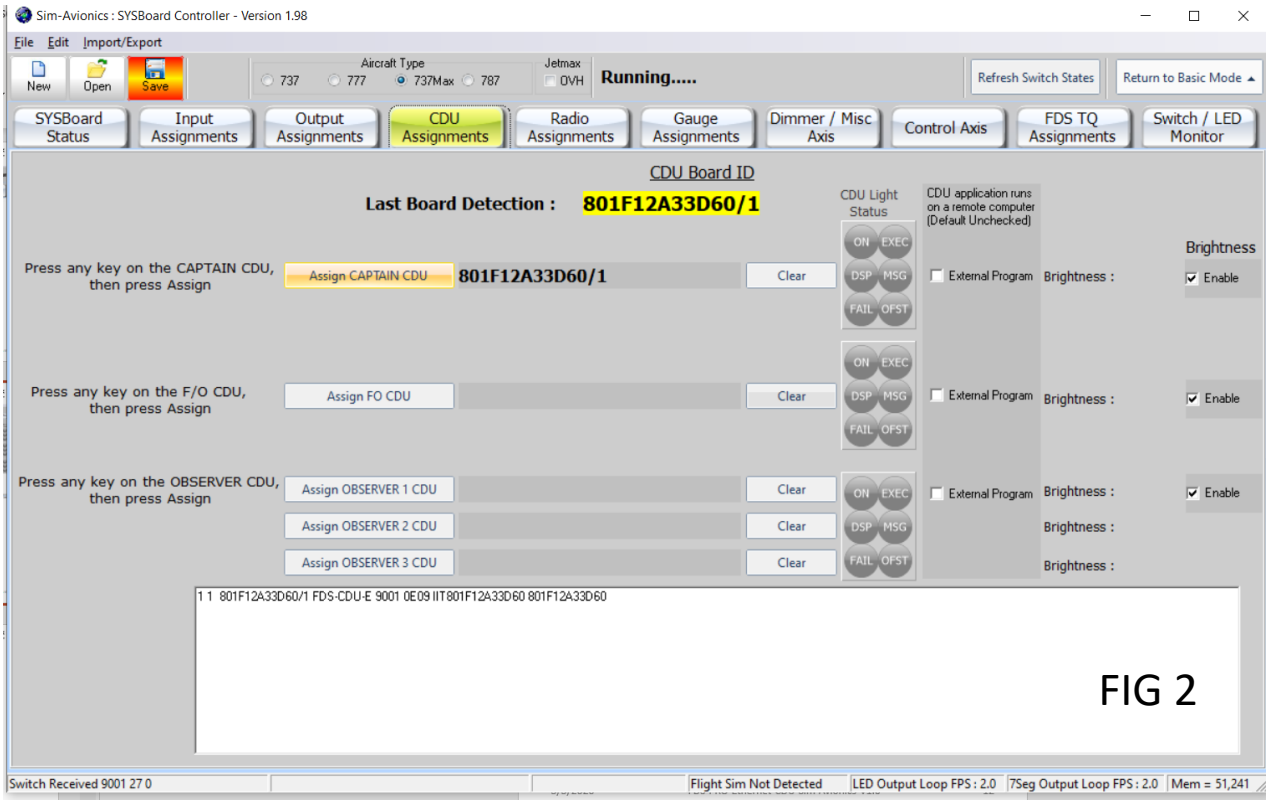

Sim-Avionics : SYSBoard Controller - Version 1.98
File Edit Import/Export
New Open Save
Aircraft Type 737 777 737Max 787
Jetmax OVH
Running...
Refresh Switch States
Return to Basic Mode
SYSBoard Status
Input Assignments
Output Assignments
CDU Assignments
Radio Assignments
Gauge Assignments
Dimmer / Misc Axis
Control Axis
FDS TQ Assignments
Switch / LED Monitor
CDU Board ID
Last Board Detection : 801F12A33D60/1
CDU Light Status
CDU application runs on a remote computer (Default Unchecked)
Brightness
Press any key on the CAPTAIN CDU, then press Assign
Assign CAPTAIN CDU
Clear
External Program
Brightness :
Enable
Press any key on the F/O CDU, then press Assign
Assign FO CDU
Press any key on the OBSERVER CDU, then press Assign
Assign OBSERVER 1 CDU
Assign OBSERVER 2 CDU
Assign OBSERVER 3 CDU
ON EXEC DSP MSG FAIL OFST
1 1 801F12A33D60/1 FDS-CDU-E 9001 0E09 IIT801F12A33D60 801F12A33D60
Switch Received 9001 27 0
Flight Sim Not Detected
LED Output Loop FPS : 2.0
7Seg Output Loop FPS : 2.0
Mem = 51,364

FIG 1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Switch Received 9001 27 0
Flight Sim Not Detected
LED Output Loop FPS : 2.0
7Seg Output Loop FPS : 2.0
Mem = 51,241

FIG 2

FIG 1

- To locate the CDU press any key on the CDU
- ID shows up in yellow once you press the key on the CDU.

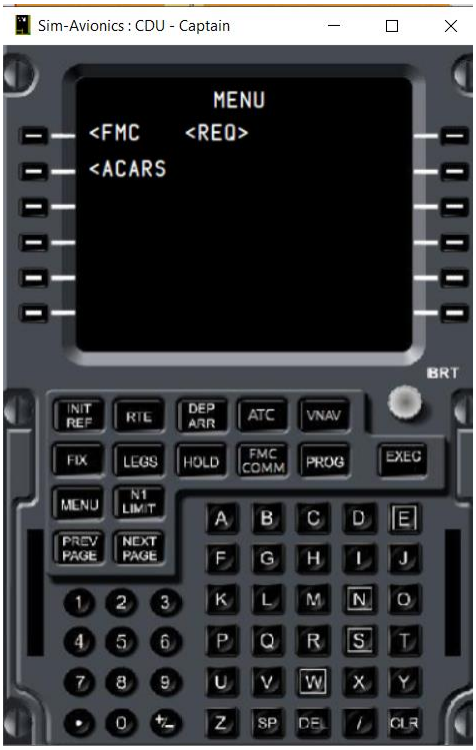
FIG 2

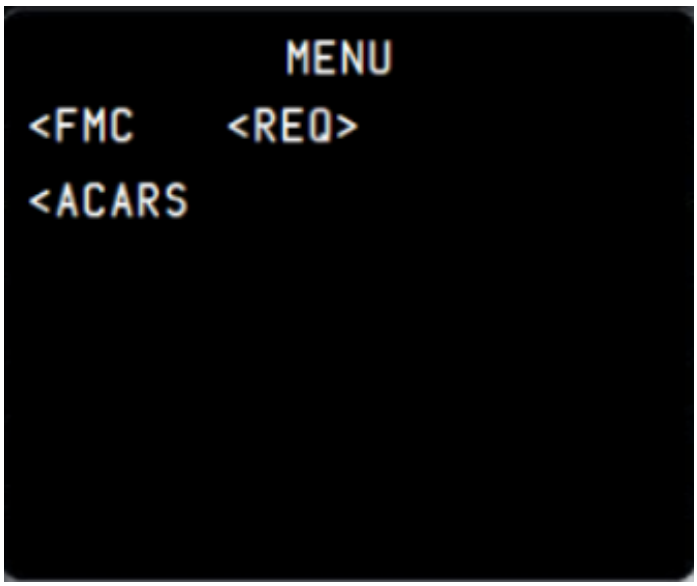
- ID number shows up for the CDU screen and needs to be assigned to the position of that CDU.
- Assign to the Captain, First Officer or 1 of 3 Observer CDU's (B777 has a third CDU in the pedestal)
- Press the SAVE button to save the assignment.
- Start the CDU programs and follow the screen set-up instructions.

Note: There is no manual for the SYSBoard Controller, all instructions are on the screens and may have a "Comment" when the cursor is placed over some areas.

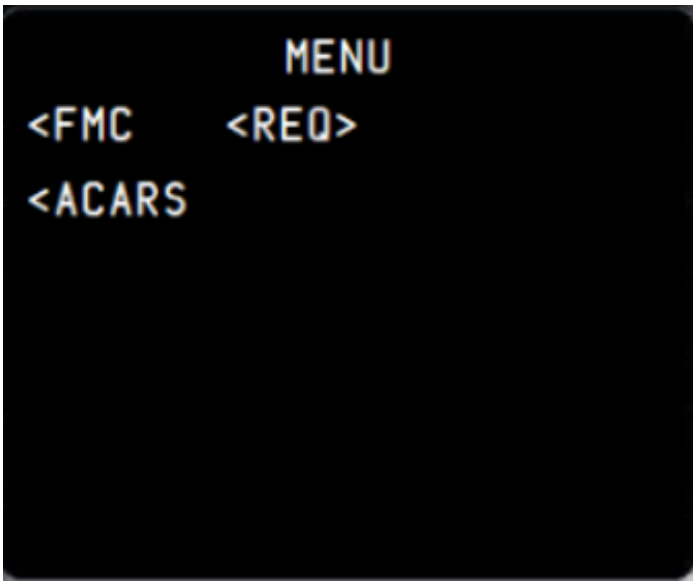
FIG 3

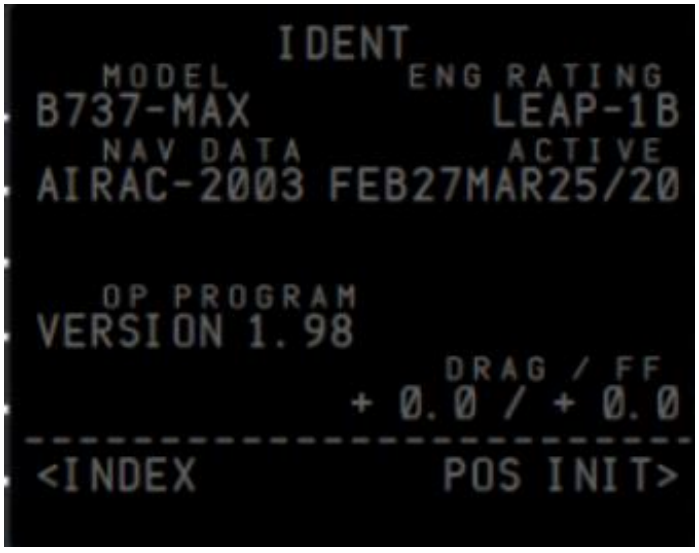
1) Start the CDU program you are using in the MIP
2) The CDU appears on the Main PC screen as above.
3) Drag the CDU over to the CDU screen. (Fig.3)
4) Once positioned in the CDU hardware screen, press the “END” key on your computer keyboard. The CDU will go to Full Screen.
5) Close the Sim-A CDU program to allow the screen settings to be written to the CDU ini file in Sim-A **CTRL+F4**
6) Re-start the CDU program and the CDU will display the CDU screen in your CDU hardware.
7) Use the “Line Set-Up” located in the CDU under Sim-Options/Sim/Next Page/Line Setup. First screen sets the lines, press Next Page and you can set the margins and Scratchpad setting. Press Save when done.





CDU Display and Full Screen using the “END” key on the computer keyboard.





Screen Dimming in Sim-Avionics using the Brightness switch on the CDU.

Terminology

CDU	**C**omputer **D**isplay **D**isplay
LSK	**L**ine **S**elect **K**ey
FDS	**F**light**d**eck **S**olutions Ltd
IBL	**I**ntegrated **B**ack **L**ighting for FDS Panels
MIP	**M**ain **I**nstrument **P**anel
OH	**O**ver**h**ead
PED	Center Aisle Stand or Pedestal
TQ	**T**hrottle **Q**uadrant
Ethernet	Technology that connects wired local area networks (LANs) and enables the device to communicate with each other through a protocol which is the common network language.