



FS2004 Cessna Citation Sovereign v1.0 Panel
by David Durst



Here is my Cessna Citation Sovereign panel for FS2004. This panel is all new for 2004 and includes all new bitmap and gauges programmed in XML. The panel includes new engine gauges, attitude and standby attitude, airspeed, radios, audio panel and many more including new traffic radar with advisories.

PFD Display -



Area's in Yellow are toggle area's on the PFD and are as follows

1. Top left PFD airspeed select

When FMS button is pressed on the EFIS Display Cont., the Nav/DME readouts in green right side of PFD will toggle with Nav 1 setting or current GPS route set.

When CUE is buttons is pressed on the EFIS Display Cont. The attitude bars and FD are changed between cross pointer and Cue command bars

GPS button on the EFIS Display Cont. will change the HSI course needle to Magenta and show a small arrow around the HSI compass of the current route

FMS button on the EFIS Display Cont. will toggle the NAV information in green on the PFD with GPS route information in Magenta color

Pressing the ET button on the Display Cont. will reset the Elapsed Time counter on the left of the PFD above the local time clock

Bearing needles display are configured on the EFIS Display Cont. and show on the PFD in blue and white needles along with the function to the left of the HSI compass rose below the AOA gauge

The lower left dial on the Display Cont. will toggle the RA height and display and the lower right dial will toggle the barometric pressure and std. setting by clicking in the middle

EICAS Display -



The EICAS display is a single page gauge. All engine information is presented in the top section while the lower section shows current COM's, NAV and XPDR information with Active display in green and standby display in white

The white wings on the lower left will show status of Flaps and Spoiler when deployed

CAS display on the lower left of the EICAS shows information/status for various systems in the aircraft

The EICAS display and MFD displays can be swapped on the pilot side using the Revision Controller gauge on the lower left of the panel. Clicking on the EICAS button will swap the EICAS and MFD between the Pilot and Co-Pilot sides of the panel and the button will change from LEFT to RIGHT

The MFD is explained in more detail on the following page



MFD Display -



The MFD display is explained in more detail below for the various functions that is has.

The main MFD screen has a few toggle area's as noted above in the picture in yellow. There is a toggle area for the GPS Map to toggle the various features that appear on the screen as well as the range selection for the GPS Map



On the Pulldown screen for the GPS Map as shown on the right, you can select the following to show on the map screen Course line if GPS is active with flight plan, ILS Display, Airports, VOR, NDB and Waypoints. Clicking on the On/Off switch will toggle them on or off.

The Nav1 and Nav2 DME boxes on the left and right side of the screen will show up if a valid nav source is selected, otherwise they will not show up on the screen.

The right side of the screen shows the current temperatures under the Nav2 DME box and below the Temps are shown the current TAS and Ground Speed of the aircraft.

The displays on the right side of the screen under the Nav1 DME box are static only

COM1 and NAV1 radios along with XPDR setting show up on the bottom of the screen, same as it does on the EICAS display on the pilot side.

On the Co-Pilot side the EICAS and MFD at the bottom show the COM2 and NAV2 radio settings

The image shows a flight simulator's Primary Flight Display (PFD) with the following elements:

- Top Bar:** Contains tabs for CHECKLIST, TCAS, MAP, and PLAN.
- Heading Indicator:** A large circular scale showing heading. The current heading is 310, displayed in green. The scale has markings for 24, 27, 30, 33, 0, and 3.
- Heading Data:**
 - HDG 310 (green)
 - FMS1 KORD 1491 NM 00:00 MIN (green)
- Heading Scale:** A large circular scale with markings for 24, 27, 30, 33, 0, and 3. The heading indicator is centered on 310.
- Heading Indicator:** A white airplane icon pointing towards the top of the heading scale.
- Distance to Waypoint:** 3NM (green) is displayed on both sides of the heading indicator.
- Left Panel:**
 - SEA 50 NM (green)
 - TCAS NORMAL TA/RA (green)
 - WEATHER WX OFF (yellow)
- Right Panel:**
 - TEMP RAT 54° (green)
 - SAT 53° (green)
 - SPEED TAS 0 (green)
 - GSPD 0 (green)
- Bottom Panel:**
 - COM1 122.95 (green)
 - NAV1 116.80 (green)
 - 1 2 (green)
 - KPDR 1200 (green)
 - TAI FA (green)

The image shows a cockpit instrument display with the following elements:

- Top Bar:** CHECKLIST, - TCAS + (dropdown), MAP (dropdown), PLAN (dropdown).
- Heading Indicator:** HDG 310, with a heading scale from 24 to 36 degrees.
- TCAS Display:** A central display showing a green diamond symbol and a red 'T' symbol, indicating a traffic alert.
- Bottom Section:**
 - COM1: 122.95, 118.00
 - NAV1: 110.90, 110.30
 - XPDR: 1200, TA/RA

Standby Attitude and HSI –



Between the pilot and co-pilot inboard displays are the standby instruments which consist of the Standby Attitude indicator, HSI with ADF indicator on blue arrow and digital engine readouts for N1, ITT and N2

Autopilot Control Panel –



To the right of the Display Controller on the glare panel is the Autopilot controller. This should be self explanatory so won't get into much detail here. Has the normal controls of the other AP panels in flightsim.

Subpanel toggles –



On the left side of the panel are the Sub panel toggles. These should be self explanatory as well. The bottom row is the Audio Panel, Radio Panel and Throttle Panel toggles

Radio Panel –



Radio panel has a few functions that are outlined in yellow and explained below.

The PERF button shows basic aircraft performance information

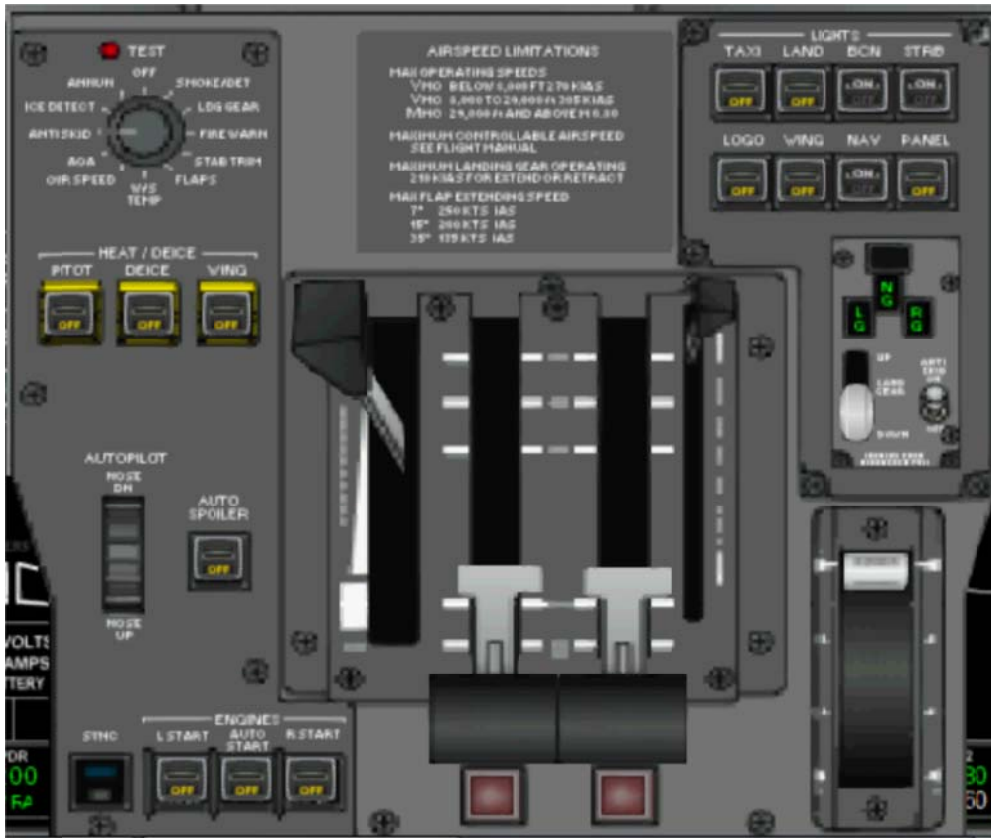
The FPL button will show details of any loaded flight plan you have and the PREV and NEXT buttons to the left of the FPL button will toggle through multiple flight plan pages if available

The RADIO button along with the keypad will allow changes in frequencies for the COM, NAV ADF and XPDR. To access the ADF page select the NEXT button and PREV to go back to the main radio page.

To change a frequency, select the button next to the standby freq. in white, then using the keypad to enter the new freq. So if you want to change NAV1, select the button the left of the standby freq. and on the keypad enter 116800 and as the last digit is entered it will take affect. To select the standby as the active freq. select the button to the right or left of the active freq. and this will toggle the stanby to active.

In the flight plan pages you can select different runways and assign as well, some of the settings do not work however so if you find clicking on a button is doing nothing, then it does not work.

Throttle Controls –



The throttle panel should be self explanatory, lighting switches are on the upper right side of the panel, the left side has heating and deice and the lower left has engine start buttons. The red buttons on the lower part of the panel under the throttle handles are the fuel cutoff buttons.

Spoilers, flaps and throttle handles can all be moved by the mouse.

The Test area on the top left is not used.

Extra information on TCAS Display -

Radar screen is set to display normal traffic and also give advisories based on distance of traffic.

There are two clickable areas on the display, the left top View/BRT will increase or decrease the brightness of the traffic on the display. The right top RNG will adjust the following distances – 2,3,5,10, 20 nm

Normal traffic appears as green diamonds and proximity aircraft show up as orange diamonds

Traffic advisories – When traffic is within 1200 feet of the aircraft a yellow circle will appear for the traffic icon and TRAFFIC will be displayed in yellow on the display

Resolution advisories- When traffic is within 300 feet of the aircraft, a red square will appear and TRAFFIC will display in red on the display.

No other options are available at this time

Hope you enjoy this panel, if you have any questions feel free to contact me at one of the following –

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