



Tech Info Library

Energy Saver Modes: Different Sleep Modes Explained (7/96)

Revised: 7/18/96
Security: Everyone

Energy Saver Modes: Different Sleep Modes Explained (7/96)

Article Created: 18 July 1996

TOPIC -----

If I select Sleep from the Special Menu on my Power Macintosh 7200, it powers down my monitor and the monitor cools down. However, if I used the timed delay sleep mode in the Energy Saver control panel, the video signal disappears, but the monitor never cools. Why?

DISCUSSION -----

There is a difference in the way the two sleep functions work. Using the Sleep mode from the Special menu puts the monitor into a low-power state, but using the Energy Saver software just blanks the video with composite and vertical sync. still present.

The Energy Saver Control Panel was designed this way so that customers would not have to wait a long time for the display to warm-up from a cold start if the Display sleep was set separately at under 30 minutes.

Below is a table showing the video signals in the various modes.

Begin_Table

Pin	Signal	Description	W/Video	Sleep Menu	Energy Saver
1	RED.GND	Red vid. ground	GND	GND	GND
2	RED.VID	Red vid. signal	Video	No video	No video
3	/CSYNC	Comp. sync. signal	•Sync.	No sync.	Sync.
4	SENSE0	Monitor sense 0	--	--	--

5	GRN.VID	Green vid. signal	Video	No video	No video
+-----+		+-----+	+-----+	+-----+	+-----+
6	GRN.GND	Green vid. ground	GND	GND	GND
+-----+		+-----+	+-----+	+-----+	+-----+
7	SENSE1	Monitor sense 1	--	--	--
+-----+		+-----+	+-----+	+-----+	+-----+
8	+12V	12-volt from computer	Sync.	No sync.	No sync.
+-----+		+-----+	+-----+	+-----+	+-----+
9	BLU.VID	Blue vid. signal	Video	No video	No video
+-----+		+-----+	+-----+	+-----+	+-----+
10	SENSE2	Monitor sense 2	--	--	--
+-----+		+-----+	+-----+	+-----+	+-----+
11	GND	CSYNC & VSYNC ground	GND	GND	GND
+-----+		+-----+	+-----+	+-----+	+-----+
12	/VSYNC	Vertical sync.	•Sync.	No sync	Sync.
+-----+		+-----+	+-----+	+-----+	+-----+
13	BLU.GND	Blue video ground	GND	GND	GND
+-----+		+-----+	+-----+	+-----+	+-----+
14	HSYNC.GND	HSYNC ground	GND	GND	GND
+-----+		+-----+	+-----+	+-----+	+-----+
15	/HSYNC	Horizontal sync.	Sync.	No sync.	No Sync.
+-----+		+-----+	+-----+	+-----+	+-----+

Note:

Bullets (•) indicate where the differences are in the two sleep functions.

End_Table

Going Into a True Sleep Mode (No Power)

=====

Here is one method you can use to have the display go into a true sleep mode (no power).

Step 1

Open the Energy Saver control panel

Step 2

Set the System sleep option to the minimum value (30 minutes).

Step 3

If you want the display to go into a low-power sleep mode (loss of video only) then select display sleep and set the time for under 30 minutes. If you want the display to go into a true sleep mode (loss of power), deselect display sleep and have the system sleep set at 30 minutes or greater. If you have an option for never, all three options for sleep including the display are set for never.

Step 4

Close the Energy Saver control panel

The CPU sleep blanks all Video, Horizontal and Vertical Sync, and Composite Sync. With the display sleep function selected and set at under 30 minutes, you only loose video and Composite sync. Until the CPU goes to sleep the display will not loose power.

Copyright 1996, Apple Computer, Inc.

Tech Info Library Article Number:20181