Using Apple Display Cards With NTSC Monitors

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Security: Everyone

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TOPIC ----------

I want to use the Display Card 4/8 or 8/24 with an NTSC Monitor. Do you know of any Apple or third-party cables? Or do you have pinout information that will help?

DISCUSSION ----------

The pinouts, sense-pin configuration, and data characteristics are listed below. After determining the pinouts of the monitor to which you plan to connect the video card, you can check the pinouts of Apple cables (posted on AppleLink) or third-party cables to see if one will work or if one must be made.

The Macintosh Display Card 8/24GC supports any display that meets one of the following specifications:

Sense pins 10	7	4	Display	Hor x Vert Pixels	Dot Clock	Vert Refrsh	Horiz Refrsh
0	0	1	Apple Portrait Display	640 x 870	57.2832	75	68.9
0	1	1	Apple Two-Page Monitor	1152 x 870	100	75	68.7
1	1	0	12" Apple Monochrome Monitor	640 x 480	30.24	66.7	35.0
1	1	0	13" AppleColor RGB Monitor	640 x 480	30.24	66.7	35.0
1	0	0	Interlaced Display	-	12.2727	-	-

0 - Grounded 1 - Not Connected
(Ground to pin 11, the Composite Sync and Vertical Sync Ground)

Note that sense pins 4, 7, and 10 are referred to as SENSE0, SENSE1, and SENSE2 in pinout tables for the video connectors.

None of the RasterOps or SuperMac 19-inch displays meets the above specifications. Based on this, we do not think that they will work properly.

Here are the pinouts for the Macintosh Display Card 8-24 GC:

Pin	Description
1	Red Video Ground
2	Red Video
3	Composite Sync
4	SENSE0
5	Green Video
6	Green Video Ground
7	SENSE1
8	Not Connected
9	Blue Video
10	SENSE2
11	Composite Sync and Vertical Sync Ground
12	Vertical Sync
13	Blue Video Ground
14	Horizontal Sync Ground
15	Horizontal Sync
Shell	Chassis Ground

SuperMac has announced two new monitors that work with the new Apple video cards. The first is called the "Color Two-Page Display" and the second monitor the "Platinum Two-Page Display."

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