Display Card 8/24GC: Using with Sony Monitors

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TOPIC --

I want to use the Sony MultiScan CPD-1304 monitor with the new Display Card
8/24GC. Will this work?

DISCUSSION ---

If the CPD-1304 monitor works with the Macintosh High-Resolution Video Card
(the current 8-bit display card), there won't be any problem with the Display
Card 8/24GC signals driving the Sony CPD-1304. (We could not verify that the
CPD-1304 monitor works with the Macintosh High-Resolution Video Card, but we do
know that Sony's CPD-1302 monitor works with that card.) However, you will need
to use a different cable to connect the two devices because the cards have
different connectors.

An issue with regard to the cable concerns the sense pins, which tell the card
what type of monitor is attached. For the Sony CPD-1302 monitor, the sense
pins should be configured as below, where 0 = Ground and 1 = Not Ground. To
ground a sense pin, tie it to the C&VSYNC.GND signal.

```
Sense pins                            Hor x Vert     Dot        Vert
10     7      4     Display             Pixels      Clock     Refresh
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1      1      0     12" Monochrome Monitor  640 x 480    30.24    66.7
                   13" Color Monitor
```

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

```
Pin    Signal        Description
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1      RED.GND        Red Video Ground
2      RED.VID        Red Video
3      CYSNC~         Composite Sync
4      MON.ID1        Monitor ID, Bit 1 (also known as SENSE0)
5      GRN.VID        Green Video
6      GRN.GND        Green Video Ground
7      MON.ID2        Monitor ID, Bit 2 (also known as SENSE1)
8      nc             (no connection)
9      BLU.VID        Blue Video
```

```
10      MON.ID3        Monitor ID, Bit 3 (also known as SENSE2)
11      C&VSYNC.GND    CSYNC & VSYNC Ground
12      VSYNC~         Vertical Sync
13      BLU.GND        Blue Video Ground
14      HSYNC.GND      HSYNC Ground
15      HSYNC~         Horizontal Sync
Shell   CHASSIS.GND    Chassis Ground
```

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