Tech Info Library

Macintosh IIci Video: Supported Resolutions and Scan Rates

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Security:       Everyone


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TOPIC -------------------------------------------------------

I want to use a Zenith VGA monitor with the Macintosh IIci.  The
horizontal scan rate for the monitor is 31.49, and the hertz rate is
60-70. Can I adjust the scan rate on the Macintosh IIci, so that it will
work with this monitor?


DISCUSSION --------------------------------------------------

The Macintosh IIci RBV (RAM-Based Video) supports the following
resolutions and scan rates:

ID1 ID2 ID3  Monitor type                        Format   Vert.   Horiz.
--- --- ---  ------------                        ------   ------- ------
 0   0   0   Unsupported monitor (video halted)
 0   0   1   Unsupported monitor (video halted)
 0   1   0   Reserved for future use
 0   1   1   Apple High-Resolution Monochrome    640x480  66.7Hz  35KHz
 0   1   1   AppleColor High-Resolution RGB      640x480  66.7Hz  35KHz
 1   0   0   15-Inch Portrait Display            640x870  75Hz    68.86KHz
 1   0   1   Reserved for future use
 1   1   0   Unsupported monitor (video halted)
 1   1   1   No external monitor (video halted)


1=no connection; 0=grounded


For an analog RGB monitor to work on the Macintosh IIci, it needs to meet
one of the above specifications.


Here are the pinouts for the Macintosh IIci RBV connector:
```

```
01      RED.GND        Red Video Ground
02      RED.VID        Red Video
03      CSYNC          Composite Sync.
04      MON.ID1        Monitor ID, Bit 1
05      GRN.VID        Green Video
06      GRN.GND        Green Video Ground
07      MON.ID2        Monitor ID, Bit 2
08      nc             (No Connection)
09      BLU.VID        Blue Video
10      MON.ID3        Monitor ID, Bit 3
11      C&VSYNC.GND    CSYNC & VSYNC Ground
12      VSYNC          Vertical Sync.
13      BLU.GND        Blue Ground
14      HSYNC.GND      HSYNC Ground
15      HSYNC          Horizontal Sync.
Shell   CHASSIS.GND    Chassis Ground
```

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