# Macintosh IIci Video: Supported Resolutions and Scan Rates

Article Created:  12 March 1990
Article Last Reviewed:  8 July 1992
Article Last Updated:

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
```
Copyright 1990 Apple Computer, Inc.

Keywords:  <None>

==================================================================

This information is from the Apple Technical Information Library.

19960215 11:05:19.00

Tech Info Library Article Number:  5336