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TITLE

Macintosh: Monitor and Video Chart (1 of 4)

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TOPIC

This article provides a list of Apple Macintosh systems with the monitor and video options each can use.

Related Articles:

- [Macintosh: Monitors and Video Chart \(2 of 4\)](#), article #15878
- [Macintosh: Monitors and Video Chart \(3 of 4\)](#), article #15879
- [Macintosh: Monitors and Video Chart \(4 of 4\)](#), article #15881

DISCUSSION

Monitor Specification Chart					
Specifications	12-in Monochrome	12-in RGB	Basic Color Monitor	Color Plus Display	
Part Number	M0298LL/A	M0297LL/C	M9103LL/B	M2346LL/A	
Resolution (pixels)	640 x 480	512 x 384	640 x 480	640 x 480	
Power Frequency (Hz)	50 - 60	47 - 63	50 - 60	47 - 63	
Power Voltage (VAC)	90 - 270	100 - 120	100 - 125	90 - 134	
Vertical Refresh	66.7 Hz	60.15 Hz	59.94 Hz	66.7 Hz	
Horizontal Refresh	35 kHz	24.48 kHz	31.5 kHz	35 kHz	
Dots Per Inch (DPI)	76	64	N/A	68	
Dot Pitch	N/A	0.28 mm	0.39 mm	0.29 mm	
LC Family					
LC	VRAM	12-in Monochrome	12-in RGB	Basic Color Monitor	Color Plus Display
LC, LC II	256K	16 G	256 C	16 C	16 C
	512K	256 G	32,768 C	256 C	256 C
LC III	512K	256 G	32,768 C	256 C	256 C
	768K	256 G	32,768 C	32,768 C	32,768 C
LC 475	512K	256 G	32,768 C	256 C	256 C
	1MB	256 G	32,768 C	32,768 C	32,768 C
LC 630	--	256 G	32,768 C	32,768 C	32,768 C
G = Number of Grays C = Number of Colors					
Performa Family					
Performa	VRAM	12-in Monochrome	12-in RGB	Basic Color Monitor	Color Plus Display
400,405,410, 430	256K	16 G	256 C	16 C	16 C
	512K	256 G	32,768 C	256 C	256 C

450	512K 768K	256 G 256 G	32,768 C 32,768 C	256 C 32,768 C	256 C 32,768 C
460,466,467	512K 768K	256 G 256 G	32,768 C 32,768 C	256 C 32,768 C	256 C 32,768 C
475,476	512K 1MB	256 G 256 G	32,768 C 32,768 C	256 C 32,768 C	256 C 32,768 C
550,560,575,577,578	N/A	N/A	N/A	N/A	N/A
600/600CD	512K 1MB	256 G 256 G	32,768 C 32,768 C	256 C 32,768 C	256 C 32,768 C
630	--	256 G	32,768 C	32,768 C	32,768 C
6200	--	256 G	32,768 C	32,768 C	32,768 C
6300	1 MB	256 G	32,768 C	32,768 C	32,768 C
6400	1 MB	256 G	32,768 C	32,768 C	32,768 C
Mac TV	--	N/A	N/A	N/A	N/A
G = Number of Grays C = Number of Colors					

Macintosh II Family					
Macintosh	VRAM	12-in Monochrome	12-in RGB	Basic Color Monitor	Color Plus Display
IIsi	--	256 G	256 C	N/A	256 C
IIci	--	256 G	256 C	N/A	256 C
IIvi	512K	256 G	32,768 C	256 C	256 C
IIvx	1MB	256 G	32,768 C	32,768 C	32,768 C
II, IIx, IIcx, IIfx	No built-in video, require a video card.				
G = Number of Grays C = Number of Colors					

Centris/Quadra Family					
Centris/Quadra	VRAM	12-in Monochrome	12-in RGB	Basic Color Monitor	Color Plus Display
605	512K 1MB	256 G 256 G	32,768 C 32,768 C	256 C 32,768 C	256 C 32,768 C
610, 650	512K 1MB	256 G 256 G	32,768 C 32,768 C	256 C 32,768 C	256 C 32,768 C
660AV (1)	1MB	256 G	32,768 C	32,768 C	32,768 C
630	--	256 G	32,768 C	32,768 C	32,768 C
700	512K 1MB 2MB	256 G 256 G 256 G	256 C 16.7M C 16.7M C	256 C 256 C 16.7M C	256 C 256 C 16.7M C
800	512K 1MB	256 G 256 G	32,768 C 32,768 C	256 C 32,768 C	256 C 32,768 C
840AV (1)	1MB 2MB	256 G 256 G	32,768 C 16.7M C	32,768 C 16.7M C	32,768 C 16.7M C
900	1MB 2MB	256 G 256 G	16.7M C 16.7M C	256 C 16.7M C	256 C 16.7M C
950	1MB 2MB	256 G 256 G	32,768 C 16.7M C	32,768 C 16.7M C	32,768 C 16.7M C
G = Number of Grays C = Number of Colors					
(1) For the AV computers, pixel and viewable color numbers are for computer graphics only. When video is enabled, VRAM is split evenly between graphics and video.					

Power Macintosh Family					
Power Macintosh	VRAM	12-in Monochrome	12-in RGB	Basic Color Monitor	Color Plus Display
4400	1MB	N/A	32,768 C	32,768 C	32,768 C
	2MB	N/A	16.7M C	16.7M C	16.7M C
	4MB	N/A	16.7M C	16.7M C	16.7M C
5400	1MB	N/A	N/A	N/A	N/A
6100	HDI45*	256 G	32,768 C	32,768 C	32,768 C
6100AV (1)	2MB	256 G	16.7M C	16.7M C	16.7M C
6500	1MB	N/A	N/A	N/A	N/A
7100	HDI45*	256 G	32,768 C	32,768 C	32,768 C
	1MB	256 G	32,768 C	32,768 C	32,768 C
	2MB	256 G	16.7M C	16.7M C	16.7M C
7100AV (1)	2MB	256 G	16.7M C	16.7M C	16.7M C
7200	1MB	256 G	16.7M C	32,768 C	32,768 C
	2MB	256 G	16.7M C	16.7M C	16.7M C
	4MB	256 G	16.7M C	16.7M C	16.7M C
7300	2MB	N/A	16.7M C	N/A	N/A
	4MB	N/A	16.7M C	N/A	N/A
7500	2MB	256 G	16.7M C	16.7M C	16.7M C
	4MB	256 G	16.7M C	16.7M C	16.7M C
7600	2MB	256 G	16.7M C	16.7M C	16.7M C
	4MB	256 G	16.7M C	16.7M C	16.7M C
8100	HDI45*	256 G	32,768 C	32,768 C	32,768 C
	2MB	256 G	16.7M C	16.7M C	16.7M C
	4MB	256 G	16.7M C	16.7M C	16.7M C
8100AV (1)		256 G	16.7M C	16.7M C	16.7M C
8500	2MB	256 G	16.7M C	16.7M C	16.7M C
	4MB	256 G	16.7M C	16.7M C	16.7M C
9500/120 (2)	2MB	256 G	N/A	16.7M C	16.7M C
	4MB	256 G	N/A	16.7M C	16.7M C
9600	4MB	N/A	16.7M C	N/A	N/A
G3 systems	See Tech Info Library article 30250, titled " Power Macintosh G3 & G3 All-in-one: Video RAM Upgrade "				
G = Number of Grays C = Number of Colors					
* = HDI-45 port makes use of 640K of internal DRAM memory					
(1) For the AV computers pixel and viewable color numbers are for computer graphics only. When video is enabled, VRAM is split evenly between graphics and video.					
(2) The Macintosh 12-in. RGB display cannot be used with the Power Macintosh 9500 series. This monitor is incorrectly listed as compatible in the booklet included with each unit titled "Technical Information: Specifications for Power Macintosh 9500 series computers."					

PowerBook Family					
PowerBook	VRAM	12-in Monochrome	12-in RGB	Basic Color Monitor	Color Plus Display
160,165,165c, 180,180c	--	256 G	256 C	256 C	256 C
500 Series	--	256 G	256 C	256 C	256 C
3400 Series	--	256 G	32,768 C	--	--
G3	--	256 G	16.7M C	N/A	N/A
Duo Dock	512K 1MB	256 G 256 G	256 C 32,768 C	256 C 32,768 C	256 C 32,768 C

Duo Dock II	--	256 G	32,768 C	32,768 C	32,768 C
MiniDock	512K	256 G	256 C	256 C	256 C
G = Number of Grays C = Number of Colors					
3400 Notes:					
1) The computer does not provide a display with 2 bits per pixel.					
2) An SVGA monitor's display resolution will be 640 by 480 pixels. The user can switch to a higher resolution by using the Monitors control panel or the control strip. The resolution set by the user will be used the next time the computer is started up.					
3) If the external monitor can display 800 by 600 pixels at 60 Hz, the PowerBook 3400 computer can display simultaneously on both the external monitor and the flat panel display. This mode of display, called Simulscan, provides the same information on both displays.					
Macintosh Video Cards					
Video Card	12-in Monochrome	12-in RGB	Basic Color Monitor	Color Plus Display	
Macintosh II	256 G	N/A	N/A	16 C	
2-Page Mono Card	N/A	N/A	N/A	N/A	
Portrait	N/A	N/A	N/A	N/A	
Mono	2 G	N/A	N/A	N/A	
High-Res Card (1)	16 G	N/A	16 G	16 G	
Ext High-Res Card	256 G	N/A	N/A	256 C	
4*8 (2)	256 G	N/A	256 C	256 C	
8*24	256 G	16.7M C	N/A	16.7M C	
8*24GC	256 G	16.7M C	N/A	16.7M C	
Display Card 24 AC	256 G	16.7M C	N/A	16.7M C	
G = Number of Grays C = Number of Colors					
(1) Can be upgraded with eight (8) Mac II Video Expansion RAM chips for 256 grays/colors.					
(2) The 4*8 can be upgraded to a 8*24 by adding two VRAM SIMMs.					

EXTENDED Information - Apple Internal Use - Service Providers and Support Professional

Document Information

Product Area: Monitors-Displays

Category: General Topics

Sub Category: General Topics