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TITLE

Macintosh: Monitor and Video Chart (4 of 4)

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TOPIC

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

Related Articles:

- [Macintosh: Monitors and Video Chart \(1 of 4\)](#), article #11131
- [Macintosh: Monitors and Video Chart \(2 of 4\)](#), article #15878
- [Macintosh: Monitors and Video Chart \(3 of 4\)](#), article #15879

DISCUSSION

Monitor Specification Chart (1 of 3)			
Specifications	21-inch Color *	Multiple Scan 20 Display *	1710 1710AV
Part Number	M5812LL/A	M2612LL/A M2612LL/B	M3322LL M3323LL
Resolution (pixels)	1152 x 870	1152 x 870	1280 x 1024
Power Frequency (Hz)	47-63	47-63	47-63
Power Voltage (VAC)	85-70	90-132 198-260	90-132 198-260
Vertical Refresh	75 Hz	75 Hz	75 Hz
Horizontal Refresh	68.7 kHz	68.7 kHz	80 kHz
Dots Per Inch (DPI)	79	79	--
Dot Pitch	0.26 mm	0.31 mm/A 0.26 mm/B	0.26 mm
* These monitors display the same video depth at this resolution, so only one column is listed in the chart for all monitors.			
Monitor Specification Chart (2 of 3)			
Specifications	Apple Vision 750/750AV and ColorSync 17	AppleVision 850/850AV and ColorSync 20	Apple Studio Display 15" LCD
Part Number(s)	M2942 M2935	M3705 M3703	M6356LL/A
Resolution (pixels)	1280 x 1024	1600 x 1200	1024 x 768
Power Frequency (Hz)	47-63	47-63	50-60
Power Voltage (VAC)	90-132 198-264	90-132 198-260	100-120 AC 200-240 DC
Vertical Refresh	40 Hz-120 Hz	48Hz-120 Hz	--
Horizontal Refresh	30 kHz-82 kHz	30 kHz-94 kHz	--
Dots Per Inch (DPI)	--	--	--
Dot Pitch	0.26 mm	0.26 mm	--

Monitor Specification Chart (3 of 3)		
Specifications	Multiple Scan 15AV	Multiple Scan 720
Part Number	M4614LL/A	M6151LL/A
Resolution (pixels)	1024 x 768	1280 x 1024
Power Frequency (Hz)	43-63	50-60
Power Voltage (VAC)	90-132 198-264	100-120 220-240
Vertical Refresh	56 Hz - 75 Hz	48 Hz - 160 Hz
Horizontal Refresh	30 KHz - 56.5 kHz	30 kHz - 69 kHz
Dots Per Inch (DPI)	--	--
Dot Pitch	0.28 mm	0.28 mm

LC Family			
LC	VRAM	21-in Color, Multiple Scan 20 Display @ 1152 x 870	1710 1710AV @ 1280 x 1024
LC, LC II	256K 512K	N/A N/A	N/A N/A
LC III	512K 768K	N/A N/A	N/A N/A
LC 475	512K 1MB	256 G 256 G	N/A N/A
LC 520	512K 768K	N/A N/A	N/A N/A
LC 550	512K 1MB	N/A N/A	N/A N/A
LC 575	--	N/A N/A	N/A N/A
LC 630	--	256 G	N/A
C = Number of Colors			

Performa Family			
Performa	VRAM	21-in Color, Multiple Scan 20 Display @ 1152 x 870	1710 1710AV @ 1280 x 1024
400,405,410, 430	256K 512K	N/A N/A	N/A N/A
450	512K 768K	N/A N/A	N/A N/A
460,466,467, 1.85	512K 768K	N/A N/A	N/A N/A
475,476	512K 1MB	256 G 256 G	N/A N/A
550,560,575,577,578	--	N/A	N/A
600/600CD	512K 1MB	N/A N/A	N/A N/A
630	--	N/A	N/A
6200	--	N/A	N/A
6300	1 MB	N/A	N/A
6400	1 MB	N/A	N/A
Mac TV	--	N/A	N/A
C = Number of Colors			

Macintosh II Family			
Macintosh	VRAM	21-in Color, Multiple Scan 20 Display @ 1152 x 870	1710 1710AV @ 1280 x 1024
IIsi	--	N/A	N/A
IIci	--	N/A	N/A
IIvi	512K	N/A	N/A
IIvx	1MB	N/A	N/A
II, IIx, IICx, IIfx	No built-in video, require a video card.		

Centris/Quadra Family			
Centris/Quadra	VRAM	21-in Color, Multiple Scan 20 Display @ 1152 x 870	1710 1710AV @ 1280 x 1024
605	512K 1MB	16 C 256 C	N/A N/A
610, 650	512K 1MB	16 C 256 C	N/A N/A
660AV (1)	1MB	256 C	N/A
630 (2)	--	N/A	N/A
700	512K 1MB 2MB	16 C 256 C 256 C	N/A N/A N/A
800	512K 1MB	16 C 256 C	N/A N/A
840AV (1)	1MB 2MB	256 C 32,768 C	N/A N/A
900	1MB 2MB	256 C 256 C	N/A N/A
950	1MB 2MB	256 C 32,768 C	N/A N/A

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.

(2) The following computers are in the Macintosh 630 family: Performa 630, Performa 635, Performa 636, Performa 637, Performa 638, LC 630, and Quadra 630.

Power Macintosh Family			
Power Macintosh	VRAM	21-in Color, Multiple Scan 20 Display @ 1152 x 870	1710 1710AV @ 1280 x 1024
4400	1MB 2MB 4MB	256 C 32,768 C 32,768 C	N/A 256 C 256 C
5400	1MB	N/A	N/A
6100 6100AV (1)	HDI45* 2MB	N/A 32,768 C	N/A N/A
6500	1MB	256 C	N/A

7100	HDI45*	N/A	N/A
	1MB	256 C	N/A
	2MB	32,768 C	N/A
7100AV (1)	2MB	32,768 C	N/A
7200	1MB	256 C	N/A (2)
	2MB	32,768 C	N/A (2)
	4MB	32,768 C	N/A (2)
7300	2MB	32,768 C	32,768 C
	4MB	16.7M C	32,768 C
7500	2MB	32,768 C	32,768 C
	4MB	16.7M C	32,768 C
7600	2MB	32,768 C	256 C
	4MB	16.7M C	32,768 C
8100	HDI45*	N/A	N/A
	2MB	32,768 C	N/A
	4MB	16.7M C	N/A
8100AV (1)	2MB	32,768 C	N/A
8500	2MB	32,768 C	256 C
	4MB	16.7M C	32,768 C
9500/120 (2)	2MB	32,768 C	N/A (2)
	4MB	16.7M C	N/A (2)
9600	4MB	16.7M C	32,768 C
G3 systems	See Tech Info Library article 30250, titled " <u>Power Macintosh G3 & G3 All-in-one: Video RAM Upgrade</u> "		

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) When the ATI graphics card is used you can get 256 C with 2MB of VRAM on the card. You get 32,768 C with 4MB of VRAM on the ATI card.

PowerBook Family			
PowerBook	VRAM	21-in Color, Multiple Scan 20 Display @ 1152 x 870	1710 1710AV @ 1280 x 1024
160,165,165c,180, 180c	--	N/A	N/A
500 Series	--	N/A	N/A
3400 Series	--	N/A	N/A
G3	--	N/A	N/A
Duo Dock	512K 1MB	N/A N/A	N/A N/A
Duo Dock II	--	N/A	N/A
MiniDock	512K	256 C	N/A

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	21-in Color, Multiple Scan 20 Display @ 1152 x 870	1710 1710AV @ 1280 x 1024
Macintosh II	N/A	N/A
2-Page Mono Card	N/A	N/A
Portrait	N/A	N/A
Mono	N/A	N/A
High-Res Card (2)	N/A	N/A
Ext High-Res Card	N/A	N/A
4*8 (3)	16 C (1)	N/A
8*24	256 C (2)	N/A
8*24GC	256 C (2)	N/A
Display Card 24 AC	16.7M C	N/A

C = Number of Colors

- (1) Requires Display adapter to use Multiple Scan Displays at this resolution.
- (2) Can be upgraded with eight (8) Mac II Video Expansion RAM chips for 256 grays/colors.
- (3) 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

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