

# Macintosh Monitor and Video Matrix

30/3/93 ADS

Bits per Pi Colors/Grays

Categories	Monitor										Bits per Pi Colors/Grays	
	12" Mo	12" RGB	Perform	13" RGB	Basic Color	Macintosh Color	16" Color	Portrait	21" Mo	21" Color	1	2
Finished Goods PN	M0298LL/A	M0297LL/C	N/A	M0401LL/B	M9103X/A	M1198LL/A	M1044LL/A	M0404	M0402	M5812LL/A	8	256
Resolution (Pixels)	640 x 480	512 x 384	640 x 480	640 x 480	640 x 480	640 x 480	832 x 624	640 x 870	152 x 870	152 x 870	15	32,700
Power Frequency (Hz)	50 - 60	47 - 63	57 - 63	47 - 63	50 - 60	50 - 60	47 - 63	47 - 63	47 - 63	47 - 63	24	16,700,000
Vertical Refresh Rate	66.7 Hz	60.15 Hz	66.7 Hz	66.7 Hz	60 Hz	66.7 Hz	75 Hz	75 Hz	75 Hz	75 Hz	15 = 16 bit video with 15 bits of color information plus a 1 bit alpha channel (used for other video information)	
Horizontal Refresh Rate	35 KHz	24.48 KHz	35 KHz	35 KHz	31.5 KHz	35 KHz	50 KHz	68.9 KHz	68.7 KHz	68.7 KHz		
Dots Per Inch (DPI)	76	64	67	69	69	69	70	80	77	79	24 = 32 bit video with 24 bits of color information plus an 8 bit alpha channel (used for other video information)	
Bandwidth	30.24 MHz	5.67 MHz	18 MHz	30.24 MHz		30.24 MHz	57.63 MHz	57.29 MHz	100 MHz	100 MHz		
Dot Pitch (mm)	N/A	0.28	0.39	0.26	0.39	0.26	0.26	N/A	N/A	0.26 x 0.29	* The 4•8 and 8•24 Display Cards require the Rev B ROM (Service PN 076-0548) to support the 16" monitor. The Rev B ROM supports the 4•8 and 8•24 cards at 8 bits.	
Quadra 950 1 MB VRAM	8	24	15	15	15	15	15	8	8	8		
Quadra 950 2 MB VRAM	8	24	24	24	24	24	24	8	8	15	** Rev A 8•24 GC cards require the Rev B ROM upgrade (Service PN 076-1019) to support the 16" monitor. The Rev B ROM & Rev A 8•24 Card support the 16" Monitor at 8 bit / 256 clr. The Rev B 8•24 GC Card supports the 16" Monitor at 15 bits / 32.7K Clrs	
Quadra 800 512K VRAM	8	15	8	8	8	8	8	4	4	4		
Quadra 800 1 MB VRAM	8	15	15	15	15	15	15	8	8	8	*** This option supports 4 bit / 16 clr video. The card can be upgraded with eight (8) Mac II Video Expansion RAM chips (Service PN 334-0024) for 8 bit / 256 clr video	
Quadra 700 512K VRAM	8	8	8	8	8	8	8	4	4	4		
Q 700/900 1 MB VRAM	8	24	8	8	8	8	8	8	8	8	**** This option supports 2 bit / 4 clr video. The card can be upgraded with eight (8) Mac II Video Expansion RAM chips (Service PN 334-0024) for 4 bit / 16 clr video.	
Q 700/900 2 MB VRAM	8	24	24	24	24	24	24	8	8	8		
Centris 650 512K VRAM	8	15	8	8	8	8	8	4	4	4	† The Ilvx doesn't support 1 bit video on the Macintosh 12" RGB Display.	
Centris 650 1 MB VRAM	8	15	15	15	15	15	15	8	8	8		
Centris 610 512K VRAM	8	15	8	8	8	8	8	4	4	4	†† The 4•8 Card can be upgraded to an 8•24 Card by adding two (2) VRAM SIMMs (Service PN 661-0609)	
Centris 610 1 MB VRAM	8	15	15	15	15	15	15	8	8	8		
Ilvi/Ilvx 512K VRAM †	8	8	8	8	8	8					††††	
Ilvi/ Ilvx 1 MB VRAM †	8	15	15	15	15	15						
Ilci/Ilsi On-Board Video	8	8	8	8	8	8		4			††††	
LC III/Performa 450 512K	8	15	8	8	8	8	8	4				
LC III/Performa 450 768K	8	15	15	15	15	15	15	8	4		††††	
LC/LC II/Performa 400 51	8	15	8	8	8	8						
LC/LC II 256K VRAM	4	8	4	4	4	4					††††	
PwrBk 160/165c/180 Ext'l	8	8	8	8	8	8	8	4				
DuoDock 512K VRAM	8	8	8	8	8	8	8	8	8		††††	
DuoDock 1 MB VRAM	8	15	15	15	15	15	15	8	8			
Duo Mini Dock	8	8	8	8	8	8	8	8	8		††††	
8•24 GC Display Card	8	24	24	24	24	24	**	8	8	8		
8•24 Display Card	8	24	24	24	24	24	*	8	8	8	††††	
4•8 Display Card ††	8	8	8	8	8	8		4	4	4		
Mac II Video Card	***		***	***	***	***					††††	
Mac II Mono Video Card	1											
2-Page Mono Video Card									****		††††	
Mac II Portrait Video Card								****				
Mac II HiRes Video Card	***		***	***	***	***					††††	
Mac II Ext HiRes Video Cd	8		8	8	8	8						

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