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Apple Multiple Scan 20 Display: Macintosh Video Support (2/96)

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Security: Everyone

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TOPIC -----

This article gives the video modes supported on each Macintosh computer with the Apple Multiple Scan 20 Display, and which computers require display adapters.

DISCUSSION -----

Begin_Table

- (1) - 640x480 - 14-in Display
- (2) - 832x624 - 16-in Display
- (3) - 1024x768 - 19-in Display
- (4) - 1152x870 - 21-in Display

Macintosh	Video Available				Display Manager
-----	(1)	(2)	(3)	(4)	-----
					Mode Switching?
Power Macintosh - 45 Pin conn	Y	Y	N	N	Y
Power Macintosh - AV card	Y	Y	Y	Y	Y
Power Macintosh - 2 MB VRAM*	Y	Y	Y	Y	Y
Power Macintosh - 4 MB VRAM*	Y	Y	Y	Y	Y

Notes:

* - Additional RAM goes into the VRAM expansion card

Quadra 700	Y	Y	N	Y	Y
Quadra 900	Y	Y	N	Y	Y
Quadra 800	Y	Y	Y	Y	Y
Quadra 950	Y	Y	Y	Y	Y
Quadra 660AV	Y	Y	Y	Y	Y
Quadra 840AV	Y	Y	Y	Y	Y
Quadra 610	Y	Y	Y	Y	Y

Quadra 650	Y	Y	Y	Y	Y
Quadra 605	Y	Y	Y	Y	Y
Centris 610	Y	Y	Y	Y	Y
Centris 650	Y	Y	Y	Y	Y
Macintosh IIfx	Y	N	N	N	N
Macintosh IIsi	Y	N	N	N	N
Macintosh IIfx	Y	N	N	N	N
Macintosh 630 family	Y	N	N	N	Y (6)
Display Card 24AC	Y	Y	Y	Y	Y
8•24	Y	Y	N	Y	N
8•24 GC	Y	Y	N	Y	N
4•8	Y	Y	N	Y	N
Mac II cx	N	N	N	N	N/A
Mac II	N	N	N	N	N/A
Mac IIfx	N	N	N	N	N/A
Mac IIfx	N	N	N	N	N/A
Performa 400	Y	N	N	N	N
Performa 410	Y	N	N	N	N
Performa 430	Y	N	N	N	N
Performa 405	Y	N	N	N	N
Performa 450	Y	Y	N	N	N
Performa 460	Y	Y	N	N	N
Performa 466	Y	Y	N	N	N
Performa 467	Y	Y	N	N	N
Performa 475	Y	Y	Y	Y	Y
Performa 476	Y	Y	Y	Y	N
Performa 550	Y	Y	N	N	N
Performa 600	Y	N	N	N	N
Performa 600CD	Y	N	N	N	N
PowerBook 180	Y	Y	N	N	N
PowerBook 180c	Y	Y	N	N	N
PowerBook 165	Y	Y	N	N	N
PowerBook 165c	Y	Y	N	N	N
PowerBook 160	Y	Y	N	N	N
PowerBook 100	N	N	N	N	N/A
PowerBook 140	N	N	N	N	N/A
PowerBook 145	N	N	N	N	N/A
PowerBook 170	N	N	N	N	N/A
PowerBook Duo 210	N	N	N	N	N/A
PowerBook Duo 230	N	N	N	N	N/A
PowerBook Duo 250	N	N	N	N	N/A
PowerBook Duo 270C	N	N	N	N	N/A
PowerBook 500 Series	Y	Y	N	N	Y
MiniDock	Y	Y	N	N	N

DUO DOCK	Y	Y	N	N	N (5)
DUO DOCK II	Y	Y	Y	Y	Y
Mac LC 475	Y	Y	Y	Y	Y
Mac LC III	Y	Y	N	N	N
Mac LC	Y	N	N	N	N
Mac LC II	Y	N	N	N	N

Notes:

- (1) - 640 x 480 - 14-in Display
- (2) - 832 x 624 - 16-in Display
- (3) - 1024 x 768 - 19-in Display
- (4) - 1152 x 870 - 21-in Display
- (5) - The Duo Dock supports mode switching when System 7.5 is installed.
- (6) - The Macintosh 630 family only supports a Macintosh resolution of 640x480. However, other VGA and SuperVGA resolutions are available.

End_Table

Computers and Video Cards Not Requiring Video Adapters

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Power Macintosh family
Macintosh Centris family
Macintosh Quadra family
Macintosh LC 475
Macintosh Performa 475 and 476
Macintosh Display Card 24AC
Duo Dock II
Macintosh 630 family

These units use the Apple Multiple Scan software to change resolutions.

Computers and Video Cards Requiring Video Adapters

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Macintosh II Family
PowerBook computers
PowerBook Duo and MiniDock
PowerBook Duo and Duo Dock*
Macintosh Performa Computers (except 475 and 476)
Macintosh LC, LC II, LC III
Video Cards - 4•8, 8•24, 8•24GC

* - The Duo Dock does not require a video adapter to change resolutions when System 7.5 is installed.

Maximum Resolutions With Video Adapters

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Begin_Table

Computer	832x624	1152x870	Notes
-----	-----	-----	-----
Macintosh II	No	No	1
Macintosh IIX	No	No	1
Macintosh IIfx	No	No	1
Macintosh IICx	No	No	1
Macintosh IICI	No	No	2
Macintosh IISi	No	No	2
Macintosh IIvx	No	No	2
Macintosh LC	No	No	2
Macintosh LC II	No	No	2
Macintosh LC III	Yes	No	3
Performa 400	No	No	2
Performa 405	No	No	2
Performa 410	No	No	2
Performa 430	No	No	2
Performa 450	Yes	No	3
Performa 460	Yes	No	3
Performa 466	Yes	No	3
Performa 467	Yes	No	3
Performa 600	No	No	2
PowerBook 160	Yes	No	3
PowerBook 165	Yes	No	3
PowerBook 165C	Yes	No	3
PowerBook 180	Yes	No	3
PowerBook 185C	Yes	No	3
Duo and MiniDock	Yes	No	3
Duo and Duo Dock	Yes	No	3,4
4•8, 8•24, 8•24GC	Yes	Yes	

Notes:

- 1) No built-in video. Video is limited only by the video card used.
- 2) Limited to a resolution of 640x480 with built-in video.
- 3) Limited to a resolution of 832x624.
- 4) The Duo Dock does not require a video adapter to change resolutions when System 7.5 is installed.

End_Table

Display Adapters

The Apple Multiple Scan 20 Display has several resolutions. Macintosh computers designed before the introduction of Apple Multiple Scan 20 Display will only recognize the display as a 14-in color display without an adapter. The adapters, available through Apple Resellers and third party companies, contain a sense code that tells the Macintosh that the display is fixed frequency 16-in. or 21-in. display. Without the adapter, the display will be fixed at a 640x480 resolution.

Display adapters are available from several third-pary companies such as Enhanced Cable Technology, Griffin Technology, and MacAdapt.

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

Article Change History:

08 Feb 1996 - Added additional adapter information.

16 Nov 1995 - Removed part numbers for cable adapters.

20 Apr 1995 - Added information on System 7.5 and Duo Dock.

Support Information Services

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