



Tech Info Library

Apple Multiple Scan 15 Display: Macintosh Video Support (3/96)

Article Created: 24 August 1994

Article Reviewed/Updated: 15 March 1996

TOPIC -----

This article gives the video modes supported on each Macintosh computer with the Apple Multiple Scan 15 Display, and which computers require display adapters.

DISCUSSION -----

Begin_Table

Macintosh -----	Video Available -----		Display Manager -----
	640x480	832x624	Mode Switching?
Power Macintosh - 45 Pin conn	Y	Y	Y
Power Macintosh - AV card	Y	Y	Y
Power Macintosh - 2 MB VRAM*	Y	Y	Y
Power Macintosh - 4 MB VRAM*	Y	Y	Y

* - Additional RAM goes into the VRAM expansion card

Quadra 700	Y	Y	Y
Quadra 900	Y	Y	Y
Quadra 800	Y	Y	Y
Quadra 950	Y	Y	Y
Quadra 660AV	Y	Y	Y
Quadra 840AV	Y	Y	Y
Quadra 610	Y	Y	Y
Quadra 650	Y	Y	Y
Quadra 605	Y	Y	Y
Quadra 630 (2)	Y	N	Y
Centris 610	Y	Y	Y
Centris 650	Y	Y	Y
Macintosh IIci (1)	Y	N	N
Macintosh IIsi (1)	Y	N	N
Macintosh IIVx (1)	Y	N	N
Macintosh IIvi (1)	Y	N	N

Macintosh -----	Video Available -----	Display Manager -----
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	640x480	832x624	Mode Switching?
Display Card 24AC	Y	Y	Y
8•24	Y	Y	N
8•24 GC	Y	Y	N
4•8	Y	Y	N
Macintosh II	N	N	N/A
Macintosh IIX	N	N	N/A
Macintosh IIfx	N	N	N/A
Macintosh IICx	N	N	N/A
Performa 400 (1)	Y	N	N
Performa 410 (1)	Y	N	N
Performa 430 (1)	Y	N	N
Performa 405 (1)	Y	N	N
Performa 450	Y	Y	N
Performa 460	Y	Y	N
Performa 466	Y	Y	N
Performa 467	Y	Y	N
Performa 475	Y	Y	Y
Performa 476	Y	Y	Y
Performa 550	Y	Y	N
Performa 600 (1)	Y	N	N
Performa 600CD (1)	Y	N	N

Notes:

- (1) - Requires a display adapter to provide the proper sync signal.
- (2) - The Macintosh 630 family only supports a Macintosh resolution of 640x480. However, other VGA and SuperVGA resolutions are available.

Macintosh	Video Available		Display Manager
-----	640x480	832x624	-----
			Mode Switching?
PowerBook 180	Y	Y	N
PowerBook 180c	Y	Y	N
PowerBook 165	Y	Y	N
PowerBook 165c	Y	Y	N
PowerBook 160	Y	Y	N
PowerBook 100	N	N	N/A
PowerBook 140	N	N	N/A
PowerBook 145	N	N	N/A
PowerBook 170	N	N	N/A
PowerBook Duo 210	N	N	N/A
PowerBook Duo 230	N	N	N/A
PowerBook Duo 250	N	N	N/A
PowerBook Duo 270C	N	N	N/A
PowerBook 500 Series	Y	Y	Y

PowerBook 190 Series	Y	Y	Y
PowerBook 5300 Series	Y	Y	Y
MiniDock	Y	Y	N
DUO DOCK	Y	Y	N
DUO DOCK II	Y	Y	Y
Macintosh LC 475	Y	Y	Y
Macintosh LC III	Y	Y	N
Macintosh LC (1)	Y	N	N
Macintosh LC II (1)	Y	N	N

Notes:

(1) - Requires a display adapter to provide the proper sync signal.

End_Table

Display Adapters

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The Apple Multiple Scan 15 Display has several resolutions. Macintosh computers designed before the introduction of Apple Multiple Scan 15 Display only recognizes the display as a 14-inch color display without an adapter. The adapters, available through Apple Resellers and the third party companies, contain a sense code that tricks the Macintosh into believing that the display is fixed frequency display. Without the adapter, the display will be fixed at a 640x480 resolution. The display adapter also provides the proper sync signal from some computers built-in video to the Multiple Scan 15 Display.

Computers and Video Cards Not Requiring Video Adapters

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Power Macintosh family
 Macintosh Centris
 Macintosh Quadra
 Macintosh LC 475
 Macintosh Performa 475 and 476
 Macintosh Display Card 24AC
 Macintosh 630 family
 PowerBook 5300 Series
 PowerBook 190 Series
 PowerBook 500 Series

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
 PowerBooks
 Duo Dock and MiniDock*

Macintosh Performa Computers (except 475, 476, and 630 series)
 Macintosh LC, LC II, LC III (except 475 and 630 series)
 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	Notes
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Macintosh II	No	3
Macintosh IIX	No	3
Macintosh IIfx	No	3
Macintosh IICx	No	3
Macintosh IICi	No	4
Macintosh IIsi	No	4
Macintosh IIvx	No	4
Macintosh LC	No	4
Macintosh LC II	No	4
Macintosh LC III	Yes	
Performa 400	No	4
Performa 405	No	4
Performa 410	No	4
Performa 430	No	4
Performa 450	Yes	
Performa 460	Yes	
Performa 466	Yes	
Performa 467	Yes	
Performa 600	No	4
PowerBook 160	Yes	
PowerBook 165	Yes	
PowerBook 165C	Yes	
PowerBook 180	Yes	
PowerBook 180C	Yes	
Duo & MiniDock	Yes	6
4•8, 8•24, 8•24GC	Yes	

Notes:

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

End_Table

Display adapters are available from several third-party companies such as Enhanced Cable Technology, Griffin Technology, and MacAdapt. An display adapter allows you to connect a Multiple Scan Display to other Macintosh products, such as the Macintosh 8•24 card, Macintosh II, PowerBook computers, and Duo Dock

products.

This article provides information about a non-Apple product. Apple Computer, Inc. is not responsible for its content. Please contact the vendor for additional information.

The Tech Info Library article titled "Locating Vendor Information" can help you search for a particular vendor's address and phone number.

Article Change History:

15 Mar 1996 - Corrected PowerBook model.

08 Feb 1996 - Added additional display adapter information on IIsi & IIci.

29 Jan 1996 - Corrected switching information on Performa 476.

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Keywords: kcompat

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19960318 07:41:35.00

Tech Info Library Article Number: 16094