



# Tech Info Library

## Apple Multiple Scan 14 Display: Technical Specifications (2/96)

Article Created: 20 July 1995

Article Reviewed/Updated: 29 February 1996

TOPIC -----

This article gives the technical specifications for the Apple Multiple Scan 14 Display.

DISCUSSION -----

### Picture Tube

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- 14-inch diagonal shadow mask, 12.36-inch viewable image size (measured diagonally)
- Multiple scan
- Resolution range: 640 x 480 to 800 x 600

### Screen

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- .28 millimeter (mm) dot pitch

### Active Display Area

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- 250 mm x 190 mm

### Scanning Rates

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- 31.5 to 48.1 kHz (horizontal)
- 60 to 72 Hz (vertical)

### Input Signals

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- Red, green, and blue signals; separate sync.

### Power Savings feature

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- Conforms to the Energy Star program of the United States Environmental Protection Agency

### User Controls

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- Power-on switch

- Automatic degauss at power-up; manual degauss by turning power switch off, then on (capable of full degauss after monitor is turned off for 20 minutes or more)
- Controls: brightness, contrast, horizontal shift, vertical shift, horizontal size, vertical size

#### Active Video Image Area

Adjusted at the factory for the following standard modes:

#### Begin\_Table

Mode	Resolution	Vertical Refresh Rate (hertz)	Horizontal Scan Rate (kilohertz)
VGA	640x480	60.0	31.5
Macintosh	640x480	66.7	35.0
SVGA	800x600	72.0	48.1
SVGA	800x600	60.0	37.9
Macintosh	832x624*	75.0	49.7

#### End\_Table

\* M3935LL/A versions of this display do not support this resolution.

#### Input Electrical Requirements

- Voltage: US version: 90-132 V AC  
European version: 198-264 V AC
- Frequency:  
US version: 57-63 Hz  
European version: 43-53 Hz
- Power: 80 W maximum when operating, less than 11 W in energy-saver mode

#### Size and Weight

- Height: 14.9 in. (37.8 cm)
- Width: 14.4 in. (36.5 cm)
- Depth: 15.2 in. (38.6 cm)
- 25 pounds (11.3 kg)

#### Interfaces

- Headphone/Speaker: One input and one pass thru output port

#### Operating Environment

##### Temperature

- Operating: 50 to 104 degrees F (10 to 40 degrees C)
- Storage: 32 to 140 degrees F (0 to 60 degrees C)
- Shipping: -40 to 151 degrees F (-40 to 65 degrees C)

Humidity (noncondensing)

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- Operating: 20% to 95%

Altitude (maximum)

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- Operating: 0-10,000 ft. (3,000 m)
  - Shipping: 0-5,000 ft. (4,500 m)

System Requirements

- =====
- Power Macintosh, Macintosh LC, Macintosh Quadra, Macintosh Centris, Macintosh Performa, Macintosh II, and PowerBook computers
  - System software version 7.1 or later
  - Compatible display card required for use with Macintosh II. Cable adapter required for use with some Macintosh LC, Macintosh Performa models, and PowerBook computers.

Monitor Cable Specifications

- =====
- 15-pin DSub connector for Macintosh systems

Monitor Signals

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Begin\_Table

Pin	Output Signal
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1	Red video ground
2	Red video
3	Not used
4	ID 1
5	Green video
6	Green video ground
7	ID 2
8	Not used
9	Blue video
10	ID 3
11	V Sync return
12	V Sync
13	Blue video ground
14	H Sync return
15	H Sync
Shell	Shield ground

End\_Table

Article Change History:

29 Feb 1996 - Clarified voltage requirements.

25 Aug 1995 - Changed "Flat Square CRT" to "shadow mask".

24 Aug 1995 - Corrected resolutions supported on M3935LL/A.

Support Information Services

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Keywords: specsht

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19960301 07:56:13.00

Tech Info Library Article Number: 18226