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AppleVision 1710AV Display: Technical Specifications (10/96)

Revised: 11/14/96
Security: Everyone

AppleVision 1710AV Display: Technical Specifications (10/96)

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TOPIC -----

This article gives the technical specifications for the AppleVision 1710AV Display.

DISCUSSION -----

Picture tube

- 17-inch (16.1-inch diagonal viewable image size) Trinitron CRT
- Multiple Scan
- Resolution Range: 640 X 480 To 1280 X 1024

Screen

- Antistatic, antiglare surface treatment
- 0.26 millimeter (mm) stripe pitch

Input signals

- Red, Green, and blue signals; separate sync, composite sync, and composite video

Power savings features

- Conforms to the Energy Star Program of the United States Environmental Protection Agency
- Power saving feature compatible with Video Electronics Standards Association (VESA) Display Power Management Standard (DPMS)

Scanning Rates

- 30 Khz To 82 Khz (horizontal)

- 50 Hz To 120 Hz (vertical)

Apple Digitalcolor Technology Features

- Self-calibration against factory measurements
- Adjustment For Ambient Lighting
- Adjustment for CRT phosphor aging

User Controls

- 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)
- Control buttons: Brightness, contrast, bass, treble, microphone, volume, and mute
- Additional picture and sound controls available using The Applevision Setup Control Panel (macintosh Users) Or On-screen Controls (ibm Pc-compatible Users)

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	59.95	31.47
Macintosh	640x480	66.70	35.00
VESA	640x480	75.00	37.50
VESA	800x600	75.00	46.90
SVGA	800x600	55.98	35.16
SVGA	800x600	60.00	37.80
Macintosh	832x624	75.00	49.73
XGA	1024x768	75.00	60.20
Macintosh	1024x768	75.00	60.20
	1024x768	60.00	48.30
	1280x1024	75.00	80.00

End_Table

Audio Input Signals

- Accepts audio signal of up to 6 Vpp (line level-low sensitivity) or as low as 20 mVpp (microhpone level-high sensitivity) without clipping the signal, depending upon the level and sensitivity setting.

Microphone

- Directional, optimized for use in speech recognition and other voice-related applications

Speakers

- Stereo, with ported (bass reflex) chamber design
- Maximum Loudness: 90 dB SPL at 1 kHz at 0.5 meters
- Frequency Response: 100 Hz To 17 Khz +/- 3 dB
- 13 Ohms
- 3 Watts

Headphone Jack

- Output Level: 1.75 Vpp Into 4-Ohm load and 2 Vpp into 10k-ohm load

Input Electrical Requirements

- Voltage: 90 to 132 V AC and 198 to 264 V AC
- Frequency: 47 to 63 Hz, single phase
- Power: 150 W maximum when operating; less than 11 W in standby mode; 0 W in suspend mode and when CPU is in energy-saver mode

Weight

Approximately 60 Pounds (27 Kilograms)

Size and Weight

Height: 19.7 in.(50.7 cm)

Width: 15.8 in.(40.5 cm)

Depth: 17.6 in.(45.2 cm)

Weight: 60 Pounds (27 Kilograms)

Interfaces

- Apple Desktop Bus (ADB): One input port and two ADB pass-thru output ports
- Microphone: One input port and one pass-thru output port
- Headphone/speaker: One input and one pass thru output port

Operating Environment

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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)

- Operating: 10% To 80%
- Storage: 5% To 90%
- Shipping: 5% To 95%

Altitude (maximum)

Operating: 0-10,000 ft. (3,048 M)

Shipping: 0-35,000 ft. (10,670 m)

System Requirements

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- Power Macintosh, Macintosh Quadra (and corresponding Macintosh LC and Performa models), Macintosh Centris, Macintosh II (with video card), and PowerBook computers.

Note: Not all models and configurations are capable of driving the monitor to the highest resolution it supports

- System software version 7.1 or later

Monitor Cable Specifications

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- 15-pin DSub connector for Macintosh systems
- 15-pin DSub mini-adaptor for PC's

Monitor Signals

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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	

Article Change History:

14 Nov 1996 - Added speaker wattage.

04 Aug 1995 - Reviewed for technical accuracy.

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