Apple Cinema Display (20-, 23-, and 30-inch DVI) – Technical Specifications

Configurations	20-inch Apple Cinema Display	23-inch Apple Cinema HD Display	30-inch Apple Cinema HD Display
Model	M9177LL/A	M9178LL/A	M9179LL/A
Screen size (diagonal viewable image size)	20 inches (viewable)	23 inches (viewable)	30 inches (29.7 inches viewable)
Screen type	Thin film transistor (TFT) active-matrix liquid crystal display (AMLCD)		
Resolutions	1680 x 1050 pixels (optimum resolution) 1280 x 800 pixels 1024 x 640 pixels	1920 x 1200 pixels (optimum resolution) 1280 x 800 pixels 1024 x 640 pixels	2560 x 1600 pixels (optimum resolution) 2048 x 1280 1920 x 1200 1280 x 800 1024 x 640
Display colors (maximum)	16.7 million		
Viewing angle (typical)	170° horizontal; 170° vertical		
Brightness (typical)	250 cd/m2	270 cd/m2	400 cd/m2
Contrast ratio (typical)	400:1		
Response time (typical)	16 ms		
Pixel pitch	0.258 mm		0.250 mm
Screen treatment	Antiglare hardcoat		
User controls (hardware and software)	Display power, system sleep, system wake, brightness and display tilt		
Cables	DVI (Digital Visual Interface), FireWire 400, USB 2.0 and DC power (24.5 V)		
Connectors	Two-port, self-powered USB 2.0 hub, two FireWire 400 ports and Kensington security port		
VESA mount adapter	Compatible with VESA FDMI (MIS-D, 100, C) compliant mounting solutions. (Requires optional Cinema Display VESA Mount Adapter		
Mac Pro compatibility	All new Mac Pro systems support two Apple Cinema Displays, including dual-link DVI for one 30-inch model. Support for two 30-inch Apple Cinema HD Displays requires two dual-link DVI ports — available in configurations with either the ATI Radeon X1900 XT or the NVIDIA Quadro FX 4500 — or by installing an additional NVIDIA GeForce 7300 GT card. Support for more than two displays requires installation of one or more additional NVIDIA GeForce 7300GT cards.		
Power Mac G5 compatibility	Any new dual- or quad-core Power Mac G5 supports two Apple Cinema Displays, including dual-link DVI for one 30-inch model. Support for two 30-inch Apple Cinema HD Displays requires two dual-link DVI ports, available in configurations with the NVIDIA Quadro FX 4500 or by installing an additional NVIDIA GeForce 6600 card. Support for more than two displays requires installation of one or more additional NVIDIA GeForce 6600 cards.		
MacBook Pro	All MacBook Pro Models		

compatibility		
MacBook compatibility	Requires Apple Mini–DVI to DVI Adapter	N/A
iMac compatibility	Intel–based iMac models (requires Apple Mini–DVI to DVI Adapter)	N/A
Mac mini compatibility	All Mac mini models	N/A
PowerBook compatibility	PowerBook G4 with DVI port	PowerBook G4 with dual–link DVI port
Limited warranty and service	Your Apple display comes with 90 days of free telephone support and a one–year limited warranty. To extend your service and support to three full years, you may register one display in the AppleCare Protection Plan when you purchase the display at the same time as a Mac Pro, MacBook Pro, or Mac mini. To cover an individual display or second display, purchase the AppleCare Protection Plan for Apple Display. Only the AppleCare Protection Plan provides you with direct telephone support from Apple technical experts and the assurance that repairs will be handled by Apple–authorized technicians using genuine Apple parts. For more information, visit Apple support or call 800–823–2775.	

Build–to–Order Options	
Extras and accessories from the online Apple Store or an authorized Apple reseller.	
Connectors	- Belkin ADC to DVI Connector Cable - iSight Accessory Kit
Ergonomics	VESA Mount Adapter
Security	Kensington Slim Kevlar MicroSaver Lock
Graphics cards	- NVIDIA GeForce 6600 - Other cards may be installed at the time of system configuration

Technical Specifications and Approvals
Electrical requirements

- Input voltage: 100–240 VAC 50–60Hz
- Maximum power when operating: 65W (Apple Cinema Display); 90W (Apple Cinema HD Display); 150W (Apple Cinema HD Display)
- Energy saver mode: 3W or less

Environmental requirements

- Operating temperature: 50° to 95° F (10° to 35° C)
- Storage temperature: –40° to 116° F (–40° to 47° C)
- Operating humidity: 20% to 80% noncondensing
- Maximum operating altitude: 10,000 feet

Size and weight

- 20–inch Apple Cinema Display
  - Height: 16.1 inches (41 cm)
  - Width: 18.5 inches (47.1 cm)
  - Depth: 6.8 inches (17.4 cm)
  - Weight: 14.5 pounds (6.6 kg)
- 23–inch Apple Cinema HD Display
  - Height: 17.7 inches (45 cm)
  - Width: 21.1 inches (53.6 cm)
  - Depth: 7.3 inches (18.7 cm)
  - Weight: 15.5 pounds (7.03 kg)
- 30–inch Apple Cinema HD Display
  - Height: 21.3 inches (54.3 cm)

- Width: 27.2 inches (68.8 cm)
- Depth: 8.46 inches (21.5 cm)
- Weight: 27.5 pounds (12.47 kg)

Agency approvals

- FCC Part 15 Class B
- EN55022 Class B
- EN55024
- VCCI Class B
- AS/NZS 3548 Class B
- CNS 13438 Class B
- ICES-003 Class B
- MPR II
- IEC 60950
- UL 60950
- CSA 60950
- EN60950
- ENERGY STAR
- TCO 03

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Additional Product Support Information

 Apple Cinema Display (30-inch DVI)

 > Support