

Computer Video Research Project

Desmond A. Hasty

Display for 27-inch models:

Built-in 27-inch (viewable) LED-backlit glossy widescreen TFT active-matrix liquid crystal display with IPS technology
Resolution: 2560 by 1440 pixels
Typical brightness: 375 cd/m²
Millions of colors at all resolutions

Typical viewing angle: 178° horizontal; 178° vertical
16:9 aspect ratio

Graphics and video support

27-inch model with dual-core processor:
ATI Radeon HD 5670 graphics processor with **512MB of GDDR3 memory**
iSight camera
Mini DisplayPort output port with support for DVI, VGA, and dual-link DVI (adapters sold separately)
Support for extended desktop and video mirroring modes
Simultaneously supports full native resolution on the built-in display and up to a 30-inch external display (2560 by 1600 pixels)

Software

Mac OS X v10.6 Snow Leopard = Operating System
Includes iTunes, Time Machine, Quick Look, Spaces, Spotlight, Dashboard, Mail, iChat, Safari, Address Book, QuickTime, iCal, DVD Player, Photo Booth, Front Row, Xcode Developer Tools
iLife (includes iPhoto, iMovie, iDVD, iWeb, GarageBand)

Storage

1TB 7200-rpm Serial ATA hard drive

Optical drive

Slot-loading 8x SuperDrive (DVD±R DL/DVD±RW/CD-RW)

Writes DVD+R DL and DVD-R DL discs at up to 4x speed
Writes DVD-R and DVD+R discs at up to 8x speed
Writes DVD-RW discs at up to 6x speed and DVD+RW discs at up to 8x speed

Reads DVDs at up to 8x speed
Writes CD-R discs at up to 24x speed
Writes CD-RW discs at up to 16x speed
Reads CDs at up to 24x speed

Audio

Built-in stereo speakers
Two internal 17-watt high-efficiency amplifiers

Headphone/optical digital audio output (minijack)
Audio line in/optical digital audio input (minijack)
Built-in microphone

Support for Apple iPhone headset with microphone

Connections and expansion

One FireWire 800 port; 7 watts
Four USB 2.0 ports
SDXC card slot

Processor and Memory

**3.2GHz Intel Core i3 processor with 4MB level 3 cache;
supports Hyper-Threading
4GB (two 2GB SO-DIMMs) of 1333MHz DDR3 SDRAM;
four SO-DIMM slots support up to 16GB**

Communications

AirPort Extreme 802.11n Wi-Fi wireless networking;³ IEEE
802.11a/b/g compatible
Bluetooth 2.1 + EDR (Enhanced Data Rate) wireless
technology

10/100/1000BASE-T Gigabit Ethernet (RJ-45 connector)

Total for above iMac system \$1,967

Accessories

Sony VCT-60AV Remote Control Tripod for use with Compatible Sony Camcorders	\$65
Sony HVL-HL1 Video Light (3-Watt) for Compatible Sony Camcorders	\$31
Sony DVM60PRR/6 Premium Digital Video Cassette Brick (6-Pack)	\$22
AmazonBasics 4.7 GB 16x DVD+R (100-Pack Spindle)	\$18
Cables Unlimited DVI-D Splitter Cable (PCM-2260)	\$12
elago FireWire 400 to 800 Adapter for Mac	\$7
Total for Accessories	\$155

Current Equipment on hand

Sony DVC-H52 Camcorder	\$150
FireWire 800 (9pin Head)	\$10
Multi Cord Adapter (5 USBs + 2 FireWire 800)	\$35

Total for Equipment on Hand	\$195
-----------------------------	-------

Total for complete new project	\$2,667
--------------------------------	---------
