

MEDIA LAB

COMPUTERS

Taking into consideration the minimum requirements to perform the intended video editing, web design, desktop publishing and other required task, the following two systems are suitable for the media lab.

Apple iMAC (\$1949 each <http://store.apple.com/>)

Processor:

Intel® Core™2 Duo 2.16GHz

Memory:

2GB 667 DDR2 SDRAM - 2x1GB

Hard Drives:

500GB Serial ATA Drive

CD or DVD Drive:

SuperDrive 8X (DVD+R DL/DVD±RW/CD-RW)

Monitor:

20-inch widescreen LCD

Video Cards:

ATI Radeon X1600/256MB VRAM

Dell Dimension E520 (\$939 each <http://www.dell.com>)

Processor:

Intel® Core™2 Duo Processor E6300 (1.86GHz, 1066 FSB)

Memory:

1GB Dual Channel DDR2 SDRAM at 533MHz- 2DIMMs **Hard Drives:**

160GB Serial ATA Hard Drive (7200RPM)

CD or DVD Drive:

Dual Drives: 16x DVD-ROM Drive + 16x DVD+/-RW DV16DVR

Monitor:

19 inch E197FP Analog Flat Panel E197FP

Video Cards:

256MB nVidia Geforce 7300LE TurboCache NV7300

CAMCORDER

One of each of the recent camcorder models should be bought for the lab which are MiniDV, MiniDVD and HDD camcorders. The most recent camcorder type is HDD camcorders and Sony and JVC has couple of models of 20Gb and 30 Gb . MiniDVD camcorders uses 1.4 Gb small size DVD and records 30 minutes of video. MiniDVD uses small cassettes and record up to two hours. Each of these has its own advantages and having one from each of them would be beneficial for the lab.

JVC Everio GZ-MG21 Camcorder, 20GB Hard Drive (\$499.99

www.compusa.com)

- Up to 25 Hours of Recording with 20GB Internal Hard Disk Drive
- 16:9 Wide Mode

- High-Value Software for Windows(R) / Macintosh (Data Management, Editing, and DVD Creation)
- Thumbnail Picture for Easy & Quick Viewing
- Stick Control on LCD for easy operation
- 3-Dimension Noise Reduction
- Multi-Language On-Screen Menu
- Data Battery
- Power-Linked Operation
- INDEX/DATA button for one-touch confirmation of hard disk free space and remaining battery
- User-Friendly GUI for Easy Operation and Setting
- Program AE with Special Effects
- SD Memory Card Slot for Extra Data Storage
- Easy Printing with PictBridge and DPOF Support

http://www.compusa.com/products/product_info.asp?pfprch1&Ntt=JVC+Everio+GZ%2DMG21+Camcorder%2C+20GB+Hard+Drive&N=0&Dx=mode+matchall&Nty=1&D=JVC+Everio+GZ%2DMG21+Camcorder%2C+20GB+Hard+Drive&Ntk=All&product_code=339765)

Sony Handycam DCR-HC46 MiniDV Widescreen Camcorder (\$569.99

www.compusa.com)

1.0 Megapixel (Gross) Advanced HAD™ CCD Imager

1/5.5" Advanced HAD™ (Hole Accumulation Diode) CCD with 690K (effective) pixels provides stunning detail and clarity with exceptional video (up to 520 lines of horizontal resolution) and still image performance. The Megapixel technology enhances your digital videos and digital still photography performance.

MiniDV Recording

Offers up to 520 lines of horizontal resolution, 3X the color bandwidth and a significantly higher signal/noise ratio, to provide spectacular video performance.

12X Optical/800X Digital Zoom

The optical zoom helps to bring the action close up from far away. In addition the Digital Zoom Interpolation means that extreme digital zooming is clearer, with less distortion than previous types of digital zooms.

Professional Quality Carl Zeiss® Vario-Tessar® Lens

Carl Zeiss lenses have an advanced optical multi-layer coating that offers less glare and flare with increased contrast. This results in vivid image

brilliance, true-to-life color saturation and perfect renditions of subtle tones.

Progressive Shutter System

A mechanical shutter system that provides progressive scan performance while utilizing an interlaced scanning system. Digital still images will be sharp and clear with excellent definition.

Super SteadyShot® Picture Stabilization System

Picture stabilization system that uses motion sensors to detect and compensate for camera “shake” without compromising picture quality like some other digital stabilization systems.

2.7" Wide (16:9) Touch Panel SwivelScreen™ LCD Display (123K Pixels)

Provides excellent viewing clarity for both 4:3 and 16:9 aspect with improved resolution. The high resolution 123K pixel LCD screen rotates up to 270 degrees for multiple viewing angles providing sharp, detailed images for monitoring or playback.

Handycam® Station

The supplied Handycam® Station provides quick and easy connections to a TV for viewing or to a PC for editing and sharing video. Just placing the camcorder on the Handycam® Station instantly makes the connections. No need to search for cables or wires when charging or playing back.

USB Streaming

Stay connected to family and friends by broadcasting live video with audio over the internet using the USB interface. You can even playback your favorite recorded scene on the camcorder’s tape. It’s like having your own video conferencing system.

i.LINK® DV Interface

A digital high-speed bi-directional interface which provides Audio/Video communication between two compatible devices. This connection allows for pure digital transfer between devices equipped with an IEEE1394 interface, such as camcorders, digital VTRs, capture cards and PCs.

InfoLithium® Battery with AccuPower™ Meter System

Charge the battery at anytime because unlike NiCad (Nickel Cadmium) batteries, Sony’s rechargeable Lithium Ion batteries are not subjected to a life shortening “memory effect”. Sony’s exclusive AccuPower™ meter displays the battery time remaining in minutes, in either the viewfinder or on the LCD screen.

Picture Package™ Software

Easily organize still images and video, and turn them into stunning music videos using the supplied software.

Digital Still Memory Mode with Memory Stick Duo™ Media

Capture still images at 1152x864 resolution, directly onto Memory Stick Duo™ Media for easy transfer to PCs for emailing, printing or sharing with other compatible Memory Stick™ devices⁴.

Tele Macro Function

Useful for shooting close up shots, but without having the camcorder casting a shadow on the subject. Images shot in the Tele Macro Mode will have the subject properly focused with the background unfocussed so that the subject stands out.

Super NightShot® Plus Infrared System

With Sony's Super NightShot® Infrared System you can capture natural looking video, even when shooting in low light. Record subjects up to 20 feet away using the built-in infrared system, but without the overall monochrome color common with earlier low-light recording systems.

Stamina® Battery Power Management System

Using the optional NP-FP90 InfoLithium® Battery, the DCR-HC46 can continuously record for up to 7 hours (Viewfinder) or up to 6 hours (LCD) on a single full charge⁵, providing extra long battery life.

Program AE (Auto Exposure) Modes

Program AE modes make recording easy even when filming in challenging situations. Choose from Portrait, Beach & Ski, Sports Lesson, Landscape, Spotlight or Sunset & Moon modes.

Picture Effects

Get creative when recording or playing back your videos with Sony's Picture Effect Modes. Effects available in Camera mode: Pastel and Mosaic. Effects available in Playback mode: Negative Art, Sepia, Monotone and Solarize.

Battery Information

At the touch of a button, battery information is displayed on the LCD screen when charging and when the camcorder is turned off. The display will show how much the battery is charged, in 10% increments and the recordable time left when using the LCD screen or in the viewfinder.

Manual Focus

Allows the user to manually adjust the focus of the camcorder using the touch panel. Manual focusing also allows the user to control the focus in difficult situations where either the environment or the subject does not

allow the camcorder's auto focus to perform optimally, such as when shooting through a window or in a crowded environment.

Easy Handycam® Button

Using a camcorder can be intimidating for some people, so with a press of the Easy Handycam® button, most of the advanced features of the camcorder are "locked out" leaving only the buttons essential for recording operational.

Fader Effects

Enhance your personal videos by adding professional looking fader effects. Choose from Black, Overlap, White and Wipe.

One Touch Wide Angle Shooting

Easily switch between 4:3 and 16:9 aspect ratios for shooting, with just the touch of a button.

On Screen Zoom and Record Controls

For additional control of the camcorder, the DCR-HC46 features Zoom and Record buttons on the frame of the LCD screen. This allows the user more flexibility when holding the camcorder, especially in overhead or low angle shots.

(http://www.compUSA.com/products/product_info.asp?pfp=srch1&Ntt=Sony+Handycam+DCR%2DDVD105+DVD+Camcorder&Pn=Everio%5FGZ%5FMG21%5FCamcorder&N=0&Dx=mode+matchall&Nty=1&D=Sony+Handycam+DCR%2DDVD105+DVD+Camcorder&Ntk=All&product_code=51960108)

Sony Handycam DCR-DVD105 DVD Camcorder (\$538.99
www.compUSA.com)

1/6" Advanced HAD™ CCD Imager, 680K Pixels Gross

1/6" Advanced HAD™ (Hole Accumulation Diode) CCD with 340K (effective) pixels provides stunning detail and clarity with exceptional video (up to 500 lines of horizontal resolution) and still image performance.

20X Optical/800X Digital Zoom

The optical zoom helps to bring the action close up from far away. In addition the Digital Zoom Interpolation means that extreme digital zooming is clearer, with less distortion than previous types of digital zooms.

Professional Quality Carl Zeiss® Vario-Tessar® Lens

Carl Zeiss® lenses have an advanced optical multi-layer coating that offers

less glare and flare with increased contrast. This results in vivid image brilliance, true-to-life color saturation and perfect renditions of subtle tones.

DVD Format Video Recording

The DVD recording format delivers digital picture and sound quality comparable to that of MiniDV, but on DVD. Playback of the DVDs couldn't be simpler. After finalizing the disc in the camcorder, the disc can play back in most DVD Players, computers and even PlayStation® 2 video game consoles.

SteadyShot® Picture Stabilization System

Picture stabilization system that uses motion sensors to detect and compensate for camera "shake" without compromising picture quality like some other digital stabilization systems.

2.5" Touch Panel SwivelScreen™ LCD Display (123K Pixels)

Provides excellent viewing clarity with improved resolution. The high resolution 123K pixel LCD screen rotates up to 270 degrees for multiple viewing angles providing sharp, detailed images for monitoring or playback.

DVD-R, -RW and +RW Compatible

The DCR-DVD105 is compatible with a variety of DVD formats allowing the ease of use and simplicity found in DVD Media. With DVD+RW media there is not a need to finalize the disc (minimum recording required). Simply remove the disc and insert the media into a compatible DVD Player5.

InfoLithium® Battery with AccuPower™ Meter System

Charge the battery at anytime because unlike NiCad (Nickel Cadmium) batteries, Sony's rechargeable Lithium Ion batteries are not subjected to a life shortening "memory effect". Sony's exclusive AccuPower™ meter 7 displays the approximate battery time remaining in minutes, in either the viewfinder or on the LCD screen.

Super NightShot® Plus Infrared System

With Sony's Super NightShot Infrared System you can capture natural looking video, even when shooting in low light. Record subjects up to 20 feet away using the built-in infrared system, but without the overall monochrome color common with earlier low-light recording systems.

Stamina® Battery Power Management System

Using the optional NP-FP90 InfoLithium® Battery, the DCR-DVD105 can continuously record for up to 8 hours on a single full charge8, providing extra long battery life.

Program AE (Auto Exposure) Modes

Program AE modes make recording easy even when filming in challenging

situations. Choose from Beach and Ski, Landscape, Portrait, Spotlight, Sports Lesson, and Sunset and Moon.

Picture Effects

Get creative when recording or playing back your videos with Sony's Picture Effect Modes. Effects available in camera and playback modes: Monotone, Mosaic, Pastel, and Sepia.

Fader Effects

Enhance your personal videos by adding professional looking fader effects. Choose from Black, Overlap, White and Wipe.

Battery Information

At the touch of a button, battery information is displayed on the LCD screen when charging and when the camcorder is turned off. The display will show how much the battery is charged, in 10% increments and the recordable time left when using the LCD screen or in the viewfinder.

Manual Focus

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Easy Handycam Button

Using a camcorder can be intimidating for some people, so with a press of the Easy Handycam button, most of the advanced features of the camcorder are "locked out" leaving only the buttons essential for recording operational.

http://www.compUSA.com/products/product_info.asp?pfp=srch1&Ntt=Sony+Handycam+DCR%2DDVD105+DVD+Camcorder&N=0&Dx=mode+matchall&Nty=1&D=Sony+Handycam+DCR%2DDVD105+DVD+Camcorder&Ntk=All&product_code=51960108

DIGITAL CAMERA

After comparing the different cameras Sony Cyber-shot DSC-W70 Digital Camera, 7.2 Megapixels will be a very good choice in terms of technical capabilities and price.

**Sony Cyber-shot DSC-W70 Digital Camera, 7.2 Megapixels (\$249.99
www.compUSA.com)**

7.2 Megapixel Super HAD™ CCD:

Higher megapixels gives you more detail and definition for large prints and

cropping in on your subject. Sony's advanced Super HAD (Hole Accumulated Diode) CCD design allows more light to pass to each pixel, increasing sensitivity and reducing noise.

Large 2.5" LCD Screen:

The DSC-W70 has a bright 2.5" LCD screen for setting up and viewing images -- with a one touch " Play" button that makes it quick and easy to view your photos.

Simple Controls, Function Guide:

User-friendly controls and simple on-screen Function Guide text/icon display help you set up camera functions -- and you' ll have greater creative freedom to adjust color mode (including "Natural" for subtle colors and "Rich" for more intense colors), sensitivity, brightness and image size.

High Sensitivity Mode:

A new High Sensitivity Mode (ISO 1000) allows you to shoot with great results in low-light conditions -- and Sony's original Clear RAW NR™ (Noise Reduction) image processing technology helps suppress the color noise that can accompany high-sensitivity shooting.

Carl Zeiss® 3X Optical/2X Digital Zoom/6X Total Zoom:

3X Optical Zoom helps the DSC-W50 bring distant subjects closer and lets you frame shots for better composition; Sony's precision 2X Digital Zoom provides an additional 2X magnification to zoom in close without jagged edges.

Stamina® Battery Power:

With its powerful Lithium Ion rechargeable battery, the DSC-W70 can capture up to 3602 images -- enough for a week of shooting. The compact BC-CSG Battery Charger is also supplied for battery recharging on the go.

14X Smart Zoom™ Feature:3

Sony's Smart Zoom™ feature3 lets you magnify your subject beyond the 3x optical zoom - to 3.6x (5MP), 4.5x (3MP), even 14x (VGA). By intelligently cropping into the central portion of the scene, it avoids the image distortion of other digital zooms.

Capture Images In-Camera:

With 58 MB Internal Memory, the DSC-W70 allows you to shoot without a flash memory card --then transfer your images to optional Memory Stick Duo™ media, upload to your computer or make prints on your digital printer.

Memory Stick Duo™ Media:

The DSC-W70 has a built-in slot for optional Memory Stick Duo™ or higher-capacity Memory Stick PRO Duo™ media -- the ultra compact media for shooting, storing and sharing your photo images.

http://www.compusa.com/products/product_info.asp?pfp=srch1&Ntt=Sony+Cyber%2Dshot+DSC%2DW70+Digital+Camera%2C+7%2E2+Megapixels&N=0&Dx=mode+matchall&Nty=1&D=Sony+Cyber%2Dshot+DSC%2DW

[70+Digital+Camera%2C+7%2E2+Megapixels&Ntk=All&product_code=338536](#))

PROJECTOR

**Toshiba S8U Mobile Projector, SVGA, 2000 Lumens, DLP (\$649.99
www.compusa.com)**

Optimum Projection Features at a Competitive Price

The Toshiba TDP-S8U mobile projector is designed for presenters who demand brilliant performance at a competitive price. Priced affordably, the TDP-S8U projector is an excellent value offering a combination of portability and functionality including features such as 2000 ANSI lumens, DLP™ technology for detailed and sharp images, 2000:1 contrast ratio (full on/full off) and native SVGA 800 x 600 resolution.

No Compromise Specifications

Designed to appeal to all audiences and meet the multimedia demands of today, the feature-rich TDP-S8U mobile projector includes a host of multimedia capabilities and connectivity options such as composite and S-video inputs, audio in/out capabilities, and a monitor output connector that allows users to view presentations from an external display in addition to what is projected on the screen.

Easy to Use in any Environment

Designed for user convenience, the TDP-S8U projector includes digital keystone correction and a fully loaded remote control to ensure worry-free, professional presentations - just plug the unit in, and it is ready to go. With a weight of only 4.4 pounds, the projector can be easily transported and is ideal for use in virtually any room size.

A Quiet Presentation Tool

The TDP-S8U mobile projector maximizes an audience's attention by producing stunning presentations with minimal noise (approximately less than 33dB in low mode). With its whisperquiet fan, the TDP-S8U is designed to minimize equipment noise, ensuring attention is kept where it should be - on what's being projected.

Eye-Catching Design

A never-before-seen style, the sleek new design complements the impressive capabilities of Toshiba's TDP-S8U mobile projector. Its looks will grab attention even before the presentation begins. The TDP-S8U is a compact and durable multimedia projector that will dazzle any audience and enhance presentations in any boardroom, conference room or classroom.

http://www.compuser.com/products/product_info.asp?pfpr=srch1&Ntt=Toshiba+S8U+Mobile+Projector%2C+SVGA%2C+2000+Lumens%2C+DLP&N=0&Dx=mode+matchall&Nty=1&D=Toshiba+S8U+Mobile+Projector%2C+SVGA%2C+2000+Lumens%2C+DLP&Ntk=All&product_code=336619)

WEBCAM -Microsoft LifeCam VX-3000 Webcam (\$49.99 www.compuser.com)

High Definition Photos

Capture high-quality still photos at 1.3 megapixel resolution.

Built in Microphone

You'll be heard loud and clear-the built-in microphone automatically picks up your voice.

Windows Live™ Call Button

Start a video conversation with the press of a button-just select an Online Contact and start talking.

Pan, Tilt, and Zoom

Makes it a snap to position the camera to get the best picture.

Universal Base Attachment

The LifeCam is designed to attach to any type of monitor.

http://www.compuser.com/products/product_info.asp?pfpr=srch1&Ntt=Microsoft+LifeCam+VX%2D3000+Webcam&N=0&Dx=mode+matchall&Nty=1&D=Microsoft+LifeCam+VX%2D3000+Webcam&Ntk=All&product_code=340874)

HEAD SET - Logitech Premium Stereo Headset with Noise-Canceling Microphone (\$17.99 www.amazon.com)

Dynamic stereo sound immerses you in your games and music.

Convenient inline controls let you adjust volume and mute the microphone.

Noise-canceling microphone filters out unwanted background noise for the highest possible audio quality.

Soft foam earpads and soft rubber headband deliver superior comfort even during extended listening periods.

http://www.amazon.com/o/ASIN/B0007N33IQ/ref=s9_asin_title_1/105-0932564-8694045)

SCANNER - CanoScan 4400F Color Image Scanner (\$93.99 www.amazon.com)

- Spectacular scans: Produce scans with spectacular resolution of up to 4800 x 9600 color dpi.

- Rich, vivid color: 48-bit color depth yields over 281 trillion possible colors.
- Multi-image scanning: To save time, simultaneously scan up to 6 frames of 35mm film (negatives or positives).
- Faster data: The USB 2.0 interface enables the fastest possible image transfers and scanning speeds.¹
- Copy / scan thick originals: You can even copy or scan thick items that do not lie flat on the platen.
- Incredible resolution: The included software greatly enhances resolution, up to an amazing 19,200 color dpi.
- Easy scanning: Large function buttons automate the scanning process—select the use for the image and it's ready in seconds.

(http://www.amazon.com/CanoScan-4400F-Color-Image-Scanner/dp/B000HDWZLC/sr=8-1/qid=1165886812/ref=pd_bbs_sr_1/105-0932564-8694045?ie=UTF8&s=electronics)

**PRINTER-HP Color LaserJet 2820 All-in-One Printer, Copier, Scanner (\$724
www.amazon.com)**

- Focus on business rather than waiting for output. Instant-on Technology saves time and energy, delivering your print job's first page in 18 seconds for black-and-white documents (29 seconds for color documents). Small jobs finish before most competitors' products have warmed up.
- Scan, send, and archive at high resolution. Integrate, store, or send brilliant images with up to 19,200 dpi enhanced scan resolution. Use the automatic document feeder (ADF) for unattended copying and scanning of documents up to legal (8.5 by 14 inches) size, or use the flatbed scanner for bound and single sheet originals. Enjoy greater versatility with the ability to scan-to e-mail, scan-to PC desktop, scan-to PC folder, or scan-to network folder.
- Count on HP printing technology. A suite of image enhancement technologies is integrated into the all-in-one and its HP printing supplies: HP ImageREt 2400 ensures exceptional-quality color output, while HP Smart Printing Technology (using genuine HP supplies ensures availability of all HP printing features) monitors and makes automatic adjustments to cartridges to ensure consistent quality throughout cartridge

life. Special fuser modes virtually eliminate print defects and provide optimal color printing on a variety of HP papers.

(http://www.amazon.com/LaserJet-Printer-Scanner-Q3948A-ABA/dp/B0007YUICE/sr=11-1/qid=1165887005/ref=sr_11_1/105-0932564-8694045)

TRIPOD - Sony Tripod with Remote Control (\$70.99 www.compusa.com)

- Remote Operation Directly From The Tripod Grip
- Remote Zoom In/Out, Start/Stop And Lock/Standby
- Expands From 19” To 57” In Height
- Easy Height Adjustment With Elevator Mechanism

(http://www.compusa.com/products/product_info.asp?pfp=srch1&Ntt=Sony+Tripod+with+Remote+Control&N=0&Dx=mode+matchall&Nty=1&D=Sony+Tripod+with+Remote+Control&Ntk=All&product_code=50571441)

SOFTWARE

Macromedia Studio (\$299 Educational Pricing www.adobe.com)

- Dreamweaver
- Flash Professional,
- Fireworks
- Contribute
- FlashPaper

Adobe Production Studio Premium (\$549 Educational Pricing www.adobe.com)

- Adobe Photoshop CS2,
- Illustrator CS2,
- InDesign CS2,
- GoLive CS2
- Acrobat 8 Professional with he Version Cue CS2 file manager
- Adobe Bridge file browser

MediaStudio Pro 8 (285.85 Educational Pricing www.campustech.com)

BUDGET

| | | Price each | Quantity | Total Cost without Tax- Shipping- Handling |
|-----------------|----------------------------------|---------------|----------|---|
| Personal | Equipment 2 Apple iMAC | \$1,949 | 2 | \$3,898 |

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|-----------------------------------|------------------------------------|--------|----|----------|
| Computers | | | | |
| | 8 Dell Dim. E520 | \$939 | 8 | \$7,512 |
| Camcorders | | | | |
| | JVC Camcorder 20GB HDD | \$499 | 1 | \$499 |
| | Sony Handycam MiniDV | \$570 | 1 | \$570 |
| | Sony Handycam DVD | \$540 | 1 | \$540 |
| | Sony Tripod with Remote | \$70 | 3 | \$210 |
| Digital Camera | | | | |
| | Sony Cyber-shot7.2 Megapixels | \$249 | 3 | \$747 |
| Projectors | | | | |
| | Toshiba S8U Mobile Projector | \$640 | 1 | \$640 |
| | Screen | 90 | 1 | \$90 |
| PC Extra | | | | |
| | Microsoft LifeCam VX-3000 | 50 | 10 | \$500 |
| | Head-Set | 18 | 10 | \$180 |
| | Scanner | 90 | 8 | \$720 |
| | Printer | 724 | 2 | \$1,448 |
| Software (Educational) | | | | |
| | Macromedia Studio | 299 | 10 | \$2,990 |
| | Adobe Production Studio Premium | 549 | 10 | \$5,490 |
| | MediaStudio Pro 8 | 285.85 | 8 | \$2,287 |
| | | | | \$28,321 |