

Applications

The Interactive Imaging Workstation gives you the ability to create visually enhanced HyperCard® stacks that display digitized images from a variety of sources,

including video-tapes, videodiscs, videocameras, books, and two- and three-dimensional art.

This workstation also simplifies desktop publishing by allowing you to electronically insert a wide

range of images into any document. You can even take video camera images and digitize them for use in printed pieces.

Equipment Descriptions

Computer
An Apple® Macintosh® Plus, Macintosh SE, or Macintosh II computer can serve as the basis for this workstation. However, if you want to digitize or scan images at 256 levels of gray, a Macintosh II with 2 or more megabytes of RAM is recommended.

Apple Scanner
The Apple Scanner will scan an illustration, line art, or photograph that is 8-1/2 inches by 14 inches in size or smaller. These images can then be imported into a HyperCard stack and modified as desired. AppleScan® and HyperScan® software are included with the Apple Scanner. The Apple Scanner can also be used for desktop publishing.

Video digitizing device
Video digitizers accept the standard NTSC (and sometimes PAL) video signal. Video digitizers come in two types: slow scan or frame grab. For the slow-scan video digitizer to translate the

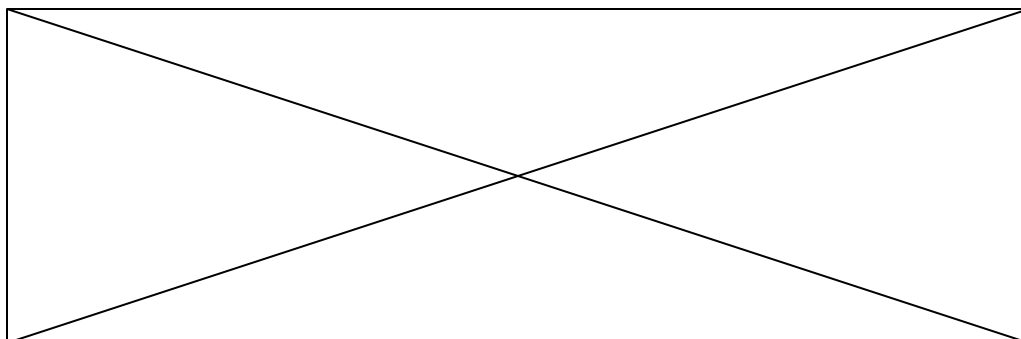
image from analog to digital signal, the video image must be still for 3 to 30 seconds. The frame-grab video digitizer does not require a still video image because it captures a single video frame in 1/30 of a second.

Video input sources
Video sources may include one or more of the following: video disc player, video cassette player, or video camera. These components should all be of above-average quality.

Audiovisual cables
Stereo patch cables may be needed to connect the video source to a stereo television monitor. The video patch cables should be of high quality.

Television monitor
The television monitor should have stereo input and stereo speaker output if it will be used with a video source that has stereo. The monitor should be of above-average quality.

Configuration



Process

1. Determine the purpose and objective of your HyperCard presentation.
2. Design and create the HyperCard stacks that will contain your digitized images.
3. Do the image scanning.
 - a. Identify and gather the two-dimensional images to be scanned.
 - b. Scan the images using HyperScan or AppleScan software.
 - c. If you are using AppleScan, save the scanned images as MacPaint files. If you are using HyperScan, save the scanned images as cards.
 - d. Open the HyperCard stack to receive scanned images.
 - e. Import the MacPaint files or HyperCard cards to the appropriate location in your HyperCard stack.
4. Do the video digitizing.
 - a. Identify the video images and/or sequences to be digitized.
 - b. Test various contrast and brightness settings.
 - c. Digitize the video selections and save them as MacPaint files.
 - d. Open the HyperCard stack to receive digitized images.
 - e. Import the MacPaint files to the appropriate cards in your stack.
5. Scale or modify images as necessary.

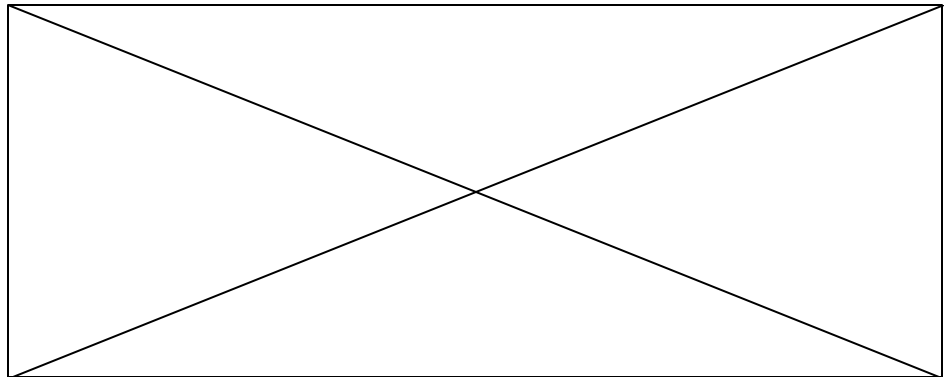
Design Considerations

- Obtain the highest-quality images possible.
 - Use original art whenever it is available, or excellent-quality copies.
 - Use a dithered (random) dot pattern before saving images as MacPaint files.
 - Use the line art setting when scanning illustrations that don't have continuous tone. When using a Macintosh II computer, set your monitor to 256 levels of gray.
 - If you do not use a frame-grab device for digitizing, make sure that the video image is perfectly still for the digitizing sequence.
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- Consider the CPU requirements of your project
 - A Macintosh II computer is strongly recommended because of its speed and its ability to display grayscales.

Workstation Components

- Macintosh Plus, Macintosh SE, or Macintosh II computer
- Apple Scanner
- Video digitizing device
- RCA video patch cables (2)
- Video sources:
 - Video disc player (with audiovisual cables and an RS-232 serial interface cable)
 - Video cassette recorder (with audiovisual cables)
 - Video camera (with audiovisual cables)
- Television monitor
- HyperCard
- Optional: Apple CD SC³ drive for CD-ROM discs with clip-art libraries

Cable Diagram





Interactive Imaging Workstation

Products and Vendors

Computers

Apple Macintosh Plus with hard disk

Apple Macintosh SE with internal hard disk

Apple Macintosh II with internal hard disk

Scanner

Apple Scanner

Digitizers

ProViz Video Digitizer (framegrabber),

Pixelogic

MacVision Video Digitizer

(slow scanner),

Koala Technologies

NuView

(framegrabber),

AST Research, Inc.

Vendors

Apple Computer, Inc.

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Cupertino, CA 95014

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AST Research, Inc.

2121 Alton Avenue

Irvine, CA 92714

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