Introduction

This video will summarize and explain the basic function, operation and advantages of several types of computer peripherals. You will learn about input devices, output devices, storage devices and much more. You will discover that there are several types of computer printers and that each one has a specific function. This program will also discuss the applications of various types of input devices utilized in today's computer world. The importance of certain hard drive specifications is also covered in this tape. The last section of this film will discuss how interface devices can be used to link musical instruments and video equipment to a computer. Understanding computer peripheral basics is an important part of learning about modern computer technology. This video should be used as a primary reference in your future studies of computers.
Student Objectives

After viewing this video, you will be able to:

• Explain the function of a computer output device.
• List several types of output devices.
• Describe the purpose of a computer input device.
• Describe several input device variations.
• Explain the purpose of a computer storage device.
• List the important specifications for a computer hard drive.
• Describe the purpose of a "modem."
• Explain how a "modem" operates.
• Define the term "computer network."
• Explain the function of a video interface.

To The Instructor

This video is designed to be a valuable supplement to your curriculum. Since young people are extremely acclimated to television, it is a natural way to help present important aspects of your subject matter. This video is designed to give a detailed, yet broad coverage of the topic.

Most educators agree that it is best to use as many instructional methods as possible. Utilize quality textbooks, workbooks, videos, lectures, demonstrations, overheads, and other methods to present the technical information. This will hold interest and help pupils understand the large amount of information required to succeed in today's complex world.

This video is organized into major sections or topics. Each section covers one major segment of the subject. Graphic breaks are given between each section so that you can stop the video for class discussion, to answer critical questions, to ask questions or perform in-class demonstrations with actual components or parts. The program's format is arranged to be extremely flexible. View it full length, use it as a supplement for lectures or demonstrations. It can also be used for self-paced individualized instruction. This video allows you to only watch a portion of the program each day or to present the complete video, depending on your curriculum requirements.

The program is designed to simplify the complex. Concise wording and carefully selected graphics are used to provide maximum learning in minimum time.
Close-up shots of components and service procedures are used to make every second of viewing instructional, as if each student was standing right behind you, watching over your shoulder while you were working or giving a demonstration. Our technical visual images are designed to match the audio so that every scene has maximum educational value.

Computer animation is used to explain difficult to comprehend principles or techniques. Students seem to enjoy the cartoon type images that show how parts work, how they fit together, or how they vary in design.

**Quiz Answer Key**


Use your own judgment to evaluate the definitions, definition type questions, and discussion topics.

**Technical Terms**

Write definitions for the following terms. Use a textbook or review the video if needed.

computer peripheral, output device, dot matrix printer, laser printer, thermal printer, ink jet printer, laser imager, dye sublimation printer, plotter, input device, computer mouse, joystick, trackball, engineering puck, optical scanners, compact disc drives, slide scanner, video capture board, storage device, external hard drive, megabyte, gigabyte, access time, transfer rate, optical drive, communication devices, modem, computer network, MIDI, video interface, desktop video production system
Video Discussion Topics

Here are a few topics that might be used for a class discussion.

1. List the most common types of computer output devices.

2. Describe some of the applications of an engineering puck.

3. Explain how a trackball operates.

4. Name some of the applications of a slide scanner.

5. What are some of the most important hard drive specifications?

6. Explain how a computer "modem" operates.

7. How do professional musicians use a "musical instrument digital interface" to assist them in their work?

8. Explain some of the applications of an electronic note-pad.
Video Quiz

Choose the most correct answer after reading each statement:

1. __________ devices are peripherals that allow you to print information, either words or graphics, as hard copies or images on paper and photographic film.
   a. Input  b. Output  c. Storage  d. Optical

2. A computer __________ is an external device that increases the capabilities of a personal computer.
   a. chip  b. CPU  c. board  d. peripheral

3. A __________ uses a heated print head and special thermal paper to generate images.
   a. laser printer  b. thermal plotter
   c. thermal printer  d. photographic imager

4. __________ printers are now the most common type of printer.
   a. Thermal  b. Laser
   c. Photographic  d. Impact

5. Some printers come equipped with both __________ and __________ ports so they can be connected to different computer configurations.
   a. positive, negative  b. standard, metric
   c. parallel, serial  d. internal, external

6. Printer __________ is a specification or rating of how fast a printer can output printed documents.
   a. speed  b. capacity  c. modulation  d. volume

7. A(n) __________ uses small ink pens to mechanically draw on paper.
   a. imager  b. trackball  c. plotter  d. scanner

8. Which of the following can be classified as a computer "input" device?
   a. engineering puck  b. joystick
   c. optical scanner  d. all of the above
9. A ________ is an input device ideal for drawing and tracing images.
   a. thermal printer  
   c. laser printer  
   b. graphics tablet  
   d. photographic imager

10. ________ is a general indicator of drive speed or how long it takes the drive to find data.
    a. capacity rate  
    c. disk capacity  
    b. access time  
    d. transfer rate

11. A ________ is a device that allows ________ to talk to each other or exchange data over phone lines.
    a. MIDI, scanners  
    c. CPU, scanners  
    b. MIDI, printers  
    d. modem, computers

12. What is it called when a scanner is used to input printed words into a computer?
    a. digital interface recognition  
    b. optical sensor recognition  
    c. optical character recognition  
    d. none of the above

13. Which of the following is considered to be a computer storage device?
    a. external hard drive  
    c. photographic imager  
    b. dot matrix printer  
    d. computer modem

14. ________ devices are peripherals that allow computers and other devices to exchange data between remote locations.
    a. Communication  
    c. Input  
    b. Output  
    d. Optical

15. A network is a series of ________ and other ________ hard wired together or linked by radio waves so they can freely exchange information.
    a. printers, devices  
    c. computers, peripherals  
    b. interfaces, devices  
    d. scanners, peripherals
Short Answer

Briefly answer the following questions in your own words:

1. Why are dot matrix printers called "impact printers"?

2. Describe how a laser printer operates.

3. Explain some of the applications of a plotter.

4. List five examples of a computer input device.

5. Describe the primary function of a computer storage device.

6. How does a dye sublimation printer operate?

7. What type of peripheral is a computer "joystick"?

8. Describe the basic operation of a photographic imager.

9. Explain the applications of a "flatbed" scanner.

10. Describe the purpose of a video interface.