COMPUTERS FOR THE DISABLED

COMPUTERS HAVE TAKEN A DOMINANT ROLE IN OUR SOCIETY SO MOST NEW JOBS REQUIRE ACCESS TO COMPUTERS AND THE INTERNET. BUT WHAT HAPPENS IF A PERSON IS BLIND, DEAF OR MOTOR-DISABLED?

TO WORK EFFECTIVELY, MOST DISABLED USERS NEED TO HAVE THEIR COMPUTERS ADAPTED WITH TECHNOLOGIES.

screen magnifiers

This type of software can enlarge text and images appearing on the screen by up to 16 times.

OPTICAL CHARACTER RECOGNITION

- OCR uses a flatbed scanner and specialized OCR software to read printed material and send the text to the computer. The PC can then produce a copy of the text in Braille, a magnified copy, or a version that can be read aloud by a speech synthesis system.

TEXTPHONE

- Textphones allow the deaf to type and read phone conversations. They can be used in combination with relay services, where an operator says what the text user types, and types what a voice phone user says.
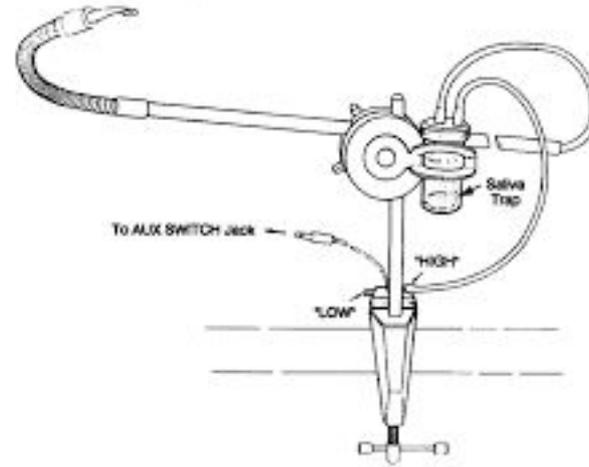
MOTOR-IMPAIRED WORKERS UNABLE TO TYPE ON A STANDARD KEYBOARD CAN EMPLOY ON-SCREEN KEYBOARDS

IN AN EYEGAZE SYSTEM, THE KEYS ON THE VIRTUAL KEYBOARD ARE ACTIVATED BY THE USER'S EYES WHEN THEY PAUSE ON A KEY FOR TWO OR THREE SECONDS.

A pneumatic switch - known as a sip and puff
- allows someone with quadriplegia to control the PC
by puffing and sipping air through a pneumatic tube.

THANK YOU FOR ATTENTION