



# Computer Aided Vision Therapy

## *For Windows*

An extensive software package for developing eye tracking skills, visual thinking & processing skills, and binocular vision skills. The *Computer Aided Vision Therapy* (CAVT) suite consists of three modules: *Track & Read*, *Visual Information Processing Skills (VIPS)* and *Computer Vergences*. Each module can be purchased individually or the complete *CAVT Suite* can be purchased for additional savings.

*CAVT* is a cost effective tool for adding a computer based therapy program to your existing vision therapy regiment. *CAVT* was not designed as a stand alone software package for solving visually based problems. Rather, this software was envisioned as a tool to be used in conjunction with your existing non computer therapy procedures. It can be a powerful adjunct to your practice.

The *CAVT* software is not sold to individuals. This is a therapy program designed for use by professionals only (Eye doctors, teachers, occupational therapists, psychologists, etc). However, as a professional you may also purchase copies of these modules for home use by your patients. See the web site link for additional information about Home Therapy Disks for your patients or students.

What does *Computer Aided Vision Therapy* have to offer? Numerous features that put you in control of your patient's vision therapy program. Here are just a few:

**MANY, MANY THERAPY PROCEDURES** that can be custom tailored for each patient's skill level. In fact, the 4 modules of the *CAVT SUITE* have over 100 different therapy procedures!

**HIGH CONTRAST CONTROLS:** All Screens are designed with high contrast control buttons and large text sizes for easy seeing and operation, even for younger patients or those with eye hand coordination limitations. Background and target colors can also be controlled during therapy. Even target contrast can be varied.

**AUTOPACING** features allow each procedure to self-adjust to the patient's/student's individual skill levels. With AutoPacing ON, the therapy procedure becomes more difficult each time a correct response is made and easier with each wrong response. Setting initial starting parameters for each procedure is easy with the AutoPacing option. Of course, AutoPacing can be turned OFF, allowing the practitioner to manually set the procedure's starting parameters and difficulty level.

**PRACTICE TIMES** for each therapy procedure can be preset from the Options Menu. When the specified practice time is reached, therapy stops and the Score Screen is automatically displayed.

**SCORE SCREENS** display detailed stats about patient performance and procedure control settings. Additionally, each patient receives an overall performance score based on correct and incorrect answers. Higher points are awarded as practice times increase and control parameters are set to more difficult levels. The Performance Score can make each therapy procedure more "game like". Use the Score to motivate the patient to work longer and try harder control settings to beat their last Score.

**ON SCREEN HELP** is quickly available for all modules. All information needed to use a therapy procedure can be found in the On Screen Help Files. The same Help Files are available to your patients/students when they use the Home Therapy Software.

**LOW VISION & AMBLYOPIC PATIENTS:** The Windows version was designed with the low vision and amblyopic patient in mind. The Help, Options, Therapy, and Score screens all utilize larger font sizes allowing the screens to be seen by many partially sighted patients. The target size in most therapy procedures can be varied from 12 to 50 point font sizes. Using AutoPacing to control the size of therapy targets creates an ideal therapy environment for both the low vision and amblyopic patient. If the patient's response is correct, the target size becomes smaller, more challenging. If incorrect, the target size becomes larger, making the task easier. The **Track & Read** module was specifically designed for stimulating an amblyopic eye by combining progressive smaller targets with increasing eye tracking demands.

A **METRONOME** is also available on each disk. Metronomes are frequently used to develop rhythm and timing skills during therapy procedures. Free standing electronic and music type metronomes can be expensive for both the patient and doctor. Nothing is more frustrating for you and your patient than when an expensive metronome is broken or lost! Since each Home Therapy Disk comes with a software metronome, you can easily prescribe home based metronome activities without dispensing an expensive, breakable instrument.

***Computer based therapy offers several advantages over traditional techniques:***

- ◆ It is a high interest "toy". Both kids and adults like to play with computers.
- ◆ Computer therapy procedures can be made more game like and thus more challenging & motivating.
- ◆ Parameter and target controls are more flexible and extensive.
- ◆ Computer time can be used as a reward system during traditional in office therapy.
- ◆ Home Therapy Disks can be assigned to patients to practice the procedures at home.
- ◆ Compliance is easy to monitor since practice times, dates, and results are tracked and printed.
- ◆ Target size, color, contrast, speed, and type can be easily varied and controlled.
- ◆ And, who doesn't want to try to beat the computer!

