



COMPUTER VERGENCES *For* WINDOWS

Software For Developing Binocular Vision Skills

Red/Blue filters are used to create anaglyphic cancellation with 12 different high interest targets.

Each target has fusion controls to help monitor and control suppression during therapy.

SINGLE JUMP VERGENCES

A single set of red/blue targets is used to create Base In, Out, Up, or Down prismatic demands. The therapy techniques utilized in this procedure are similar to those used with Polaroid Vectograms or Free Space Red/Green Anaglyphic Targets. Both horizontal and vertical prismatic demands can be created.

DOUBLE JUMP VERGENCES

A double set of anaglyphic targets is used. The Base In & Base Out prismatic demands for each of the two target groups can be independently controlled by the user. Create Base In demands on the bottom targets and Base Out demands on the top targets. The patient then alternates fusion between the upper and lower target groups. This procedure employs therapy techniques similar to those used with a Dual Polachrome Orthopter.

SMOOTH VERGENCES

In this procedure the speed and movement of the targets are controlled by the software. Target movement can be paused to help regain fusion or to check for suppression controls. Both horizontal and vertical prismatic demands can be created.

RANDOM DOT STEREOGRAMS

Both red/blue and black/white random dot stereograms are used to create base in and base out demands. If the floating target is seen and a correct response is made, prismatic demand (target separation) increases. If the response is wrong, target separation decreases. This is an AutoPaced type activity.

STEREO PICTURE TARGETS

Stereo pictures are used to create base out demands. You must fuse targets by crossing your eyes and see the fused picture in three dimensions.

RED BLUE SACCADES

In this procedure, red or blue characters are presented in random positions on the Therapy Screen. If a blue character is flashed, it will be surrounded by a red border. Conversely, if a red character is flashed, it will be surrounded by a blue border. With the red blue filters on, one eye will see the border and the other the character. This procedure combines eye tracking demands with anti-suppression techniques to build binocular vision skills.

BINOCULAR PURSUIT

Horizontal fusional demands are created for randomly moving red/blue targets that must be tracked with pursuit type eye movements while fusion is maintained. Both red/blue anaglyphic glasses and free space fusion techniques can be employed. A fusion dot is randomly flashed in the moving target's center to monitor attention.

LIFE SAVER DRILLS

Creates fusional demands with the familiar Life Saver Ring targets. Targets can be fused with anaglyphic glasses or with free space fusion techniques. The two sets of ring targets can be moved closer together or further apart to change prismatic demands during therapy.

ANTI-SUPPRESSION GAMES

Two challenging eye-hand coordination games that require strong binocular vision skills. Suppression can be broken down and controlled by periodic reversals of the anaglyphic target colors. These are GREAT anti-suppression training tools!

